

Campbelltown Southern Catchments Flood Study

Final Report

Volume 1 of 2: Report & Appendices

▶▶ **Revision 3**
March 2023



Catchment Simulation Solutions

Campbelltown Southern Catchments Flood Study

► REVISION / DISTRIBUTION

Rev	Description	Prepared by	Reviewed by	Distribution	Date
1	Draft report	D. Tetley	C. Ryan	Campbelltown City Council	10/08/2022
2	Final draft report	D. Tetley	C. Ryan	Campbelltown City Council	3/11/2022
3	Final report	D. Tetley	C. Ryan	Campbelltown City Council	10/03/2022

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File Reference: Campbelltown Southern Catchments Flood Study (Vol 1).docx



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EXECUTIVE SUMMARY

Overview

This report forms the Flood Study for the Campbelltown Southern Catchments study area. It documents flood behaviour for a range of design floods. This includes information on flood discharges, levels, depths, and flow velocities. It also describes the variation in flood hazard and provides an assessment of the potential impacts of climate change on existing flood behaviour.

This Flood Study has been completed to provide information on flood risk to Council, the community, property owners, and others, and to enable better decisions in land use planning and emergency management. This study provides flood information for the last urbanised area of the Campbelltown Local Government Area without prior information. The key outcomes of the study include flood mapping, identification of the flood planning area, and flood intelligence for the State Emergency Service. The outputs from the Flood Study will also serve as the basis for a future floodplain risk management study where potential flood risk mitigation measures will be investigated to assist in better managing the flood risk.

The study has been developed in accordance with the NSW Floodplain Development Manual and is consistent with other flood studies undertaken across NSW. This includes a staged approach to community consultation and endorsement by the Council's Floodplain Risk Management Committee, which includes representatives from the community, and state government agencies.

This draft report is for exhibition purposes and will be finalised following consideration of comments from the public.

Study Area

The *Campbelltown Southern Catchments Flood Study* covers an area of 10.2 km² within the Campbelltown City Council Local Government Area (LGA). The study area incorporates the catchments of Mansfield Creek and Spring Creek as well as several smaller tributaries that drain into the Georges River. The study area extends across parts of the suburbs of Airds, Ambarvale, Bradbury, Rosemeadow, and St Helens Park.

Most of the urbanised portion of the study area is drained by a sub-surface stormwater system. During periods of heavy rainfall there is potential for the capacity of the stormwater system to be exceeded, leading to local overland flooding. There is also potential for water to overtop the banks of the various creeks and detention basins and inundate the adjoining floodplains.

Computer Flood Models

Flood behaviour across the study area was defined using two computer models that were developed specifically for the study:

- A hydrologic model was developed using the XP-RAFS software. The hydrologic model was used to simulate the transformation of rainfall into runoff and generate flow hydrographs at various locations.
- A hydraulic computer model was developed using the TUFLOW software. TUFLOW is a two-dimensional hydraulic software package that takes the flow hydrographs produced by the hydrologic model and simulates how that flow would move and be distributed across the catchment. The hydraulic model is used to predict key flood outputs such as water depths and velocities.

The XP-RAFS and TUFLOW models that were developed for the study were validated against results documented in previous reports and flood models. The outcomes of the validation confirmed that the computer models were providing realistic estimates of flows and flood levels across the study area.

Design Flood Simulations

The validated models were used to simulate the design 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% Annual Exceedance Probability (AEP) floods based upon the 2019 version of Australian Rainfall and Runoff (Geoscience Australia). The Probable Maximum Flood (PMF) was also simulated (the PMF is the largest flood that could occur). The results of each design flood were extracted, and figures were prepared to display the results. The figures are provided in Volume 2 and include:

- Floodwater Depths and Velocity Vectors: **Figures 9 to 15** (the velocity vectors show the direction and speed of water movement)
- Flood Hazard: **Figures 18 to 24** (flood hazard mapping shows the potential impact that floodwaters are likely to have on vehicles, people and buildings in the study area)
- Hydraulic Category: **Figures 27 to 33** (hydraulic category mapping shows areas that should be preserved for the conveyance and storage of floodwaters).

The flood mapping shows that floodwaters are typically contained close to each of the main watercourses, detention basins as well as within roadways. However, there are several locations where floodwaters are predicted to travel overland through private property. Further details on areas at risk of inundation are provided in Section 5.4.2.

The total number of properties and buildings potentially at risk of inundation was also estimated. This determined that of the 6,965 properties and 10,110 buildings within the study area, 725 properties and 161 habitable buildings may be at least partly exposed to inundation during a 1% AEP flood. The location of properties and buildings potentially at risk of flooding during the 1% AEP flood is shown in **Figure 16**.

The study area incorporates an extensive stormwater system as well as a number of culverts. The results of a blockage sensitivity analysis show that the severity of flooding can be significantly increased due to blockage. This highlights the importance of routine maintenance on this infrastructure, particularly immediately after a flood.

A number of roadways are also predicted to be inundated during the 1% AEP flood. Many of these roadways would be unsafe to drive through and highlights the ongoing need for community education to ensure people do not drive through floodwaters.

Public Exhibition

The draft *Campbelltown Southern Catchments Flood Study* was placed on public exhibition from 12 December 2022 until 21 February 2023. A copy of the draft report and figures were made available for review on Council's 'Over To You' website. The website had a total of 147 visits. This included 82 visitors who took no further action and 38 visitors that further interrogated information on the page (e.g., clicked on a link).

A community drop-in session was also hosted at the Campbelltown City Council Staff Training Centre (91 Queen Street, Campbelltown) from 3:30pm to 7pm on 1 February 2023. Three people attended the drop-in session, however, none of the people lived within the study area.

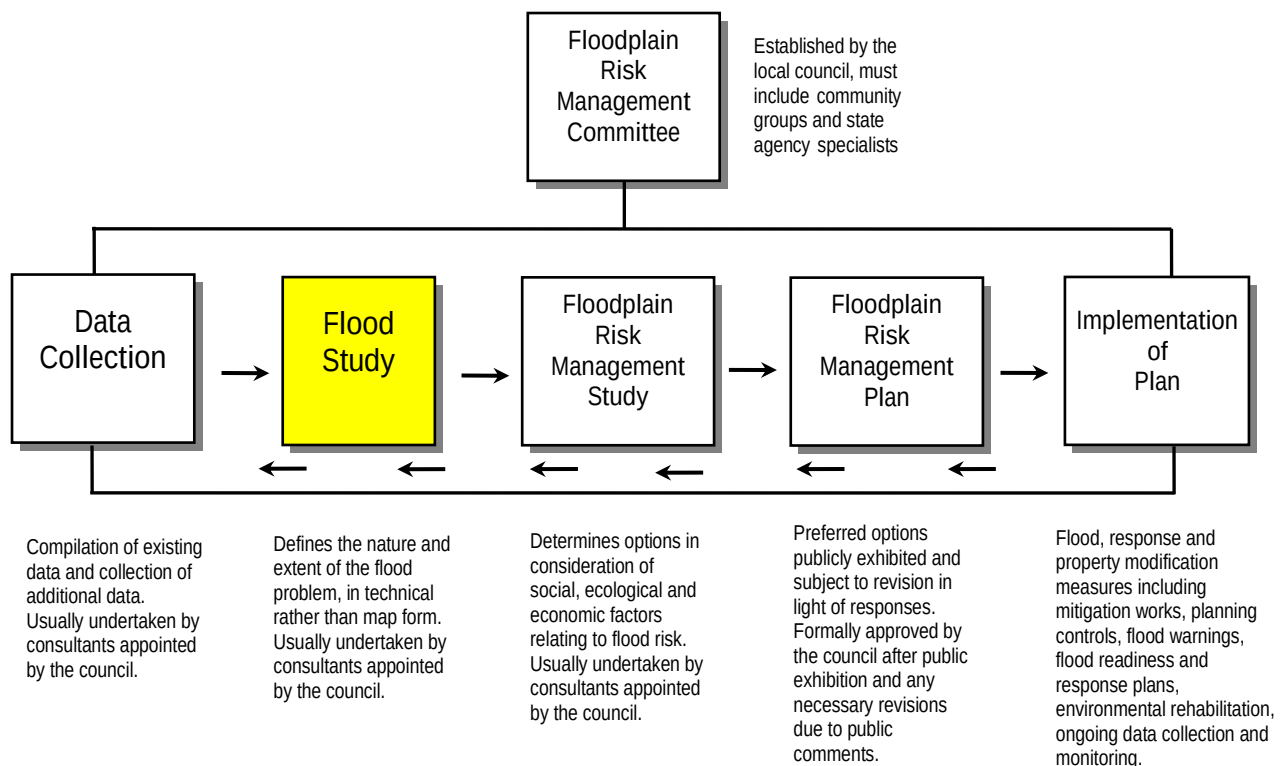
No submissions were received during the exhibition or at the drop-in session.

FOREWORD

The NSW State Government's Flood Prone Land Policy is directed towards providing solutions to existing flooding problems in developed areas and ensuring that new development is compatible with the flood hazard and does not create additional flooding problems in other areas. The Policy is defined in the NSW Government's *'Floodplain Development Manual'* (NSW Government, 2005).

Under the Policy, the management of flood liable land remains the responsibility of Local Government. The State Government subsidises flood mitigation works to alleviate existing problems and provides specialist technical advice to assist Local Government in its floodplain management responsibilities.

The Policy provides for technical and financial support by the State Government through the following stages:



The Campbelltown Southern Catchments Flood Study represents the second of the five stages in the process outlined above. The aim of the Flood Study is to produce information on flood discharges, levels, depths and velocities, for a range of flood events under existing topographic and development conditions. This information can then be used as a basis for identifying those areas where the greatest flood damage is likely to occur, thereby allowing a targeted assessment of where flood mitigation measures would be best implemented as part of the subsequent Floodplain Risk Management Study and Plan.

▶▶ TABLE OF CONTENTS

EXECUTIVE SUMMARY	III
1 INTRODUCTION	1
2 METHODOLOGY	2
2.1 Objectives	2
2.2 Adopted Approach	2
3 DATA COLLECTION AND REVIEW	4
3.1 Overview	4
3.2 Previous Reports	4
3.2.1 Bow Bowling/Bunbury Curran Creek Flood Studies	4
3.2.2 TUFLOW Model for the Spring Creek Catchment (2017)	6
3.2.3 Bow Bowling Bunbury Curran Creek Catchment Detailed Flood Studies Pit Inlet Database Project (2011)	7
3.2.4 Bow Bowling Bunbury Curran Creek Catchment Hydraulic Categories (2011)	7
3.3 Hydrologic Data	8
3.3.1 Rain Gauge Data	8
3.4 Topographic Information	8
3.4.1 2019 LiDAR Survey	8
3.5 Geographic Information System (GIS) Data	11
3.5.1 Stormwater	11
3.5.2 Culverts	14
3.5.3 Buildings	14
3.5.4 Land Use	16
3.6 Engineering Plans	16
3.7 Community Consultation	17
3.7.1 Public Exhibition	17
4 COMPUTER FLOOD MODELS	18
4.1 General	18
4.2 XP-RAFTS Model Development	18
4.2.1 Subcatchment Delineation	18

4.2.2	Subcatchment Parameterisation	18
4.2.3	Stream Routing.....	20
4.2.4	Rainfall Loss Model	20
4.2.5	Detention Basins	20
4.3	TUFLOW Model Development	21
4.3.1	Model Extent.....	21
4.3.2	Grid Size.....	21
4.3.3	Hydraulic Roughness Values	22
4.3.4	Culverts.....	23
4.3.5	Stormwater System.....	25
4.3.6	Fences	27
4.3.7	Detention Basins and Water Storages	28
4.4	Model Validation	28
4.4.1	Hydrologic Model	28
4.4.2	Hydraulic Model.....	30
5	DESIGN FLOOD ESTIMATION	32
5.1	General.....	32
5.2	Hydrology.....	32
5.2.1	Rainfall	32
5.2.2	Areal Reduction Factors	33
5.2.3	Rainfall Losses	34
5.2.4	Temporal Patterns	35
5.2.5	Results	36
5.3	Hydraulics	37
5.3.1	Boundary Conditions	37
5.3.2	Blockage.....	39
5.4	Results.....	39
5.4.1	Design Flood Envelope	39
5.4.2	Peak Depths, Levels and Velocities.....	40
5.4.3	Inundated Properties and Buildings	40
5.4.4	Performance of Detention Basins.....	46
5.4.5	Comparison with ARR1987	47
5.5	Flood Hazard	47

5.6	Flood Emergency Response Classifications	50
5.6.1	Transportation Impacts	52
5.7	Hydraulic Categories	53
5.7.1	Adopted Hydraulic Categories	53
5.8	Discussion on Flood Behaviour	56
5.8.1	Northern Area	56
5.8.2	Southern Area	57
6	FUTURE FLOOD ASSESSMENT	59
6.1	Overview	59
6.2	Future Catchment Development	59
6.2.1	Scenario 1 - Fully developed catchment with existing topographic conditions	59
6.2.2	Scenario 2 - Fully developed catchment with all developable areas raised above the 1% AEP flood	61
6.3	Climate Change Analysis	62
7	SENSITIVITY ANALYSIS	64
7.1	Overview	64
7.2	Hydrologic Model Inputs	64
7.2.1	Initial / Storm Loss	64
7.2.2	Continuing Loss Rate	65
7.2.3	Temporal Pattern	66
7.2.4	Catchment Storage	67
7.2.5	PMP Spatial Distribution	67
7.3	Hydraulic Model Inputs	69
7.3.1	Roughness Coefficients	69
7.3.2	Structure Losses	70
7.3.3	Blockage	70
7.4	Model Results Confidence Limits	71
8	FLOOD PLANNING INFORMATION	73
8.1	Overview	73
8.2	Flood Planning Area	73
8.3	Flood Planning Constraint Categories	74
9	CONCLUSION	78

10 REFERENCES.....	79

▶▶ LIST OF APPENDICES

APPENDIX A	BBBC Creek XP-RAFTS Model Review
APPENDIX B	BBBC Creek TUFLOW Model Review
APPENDIX C	XP-RAFTS Model Inputs
APPENDIX D	XP-RAFTS Model Outputs (ARR1987)
APPENDIX E	Design Rainfall
APPENDIX F	XP-RAFTS Model Outputs (ARR2019)
APPENDIX G	XP-RAFTS Model Outputs for Future Development and Climate Change Conditions
APPENDIX H	XP-RAFTS Model Outputs for Sensitivity Simulations
APPENDIX I	Water Depth Hydrographs for Major Roads

▶▶ LIST OF TABLES

Table 1	Available rain gauges in the vicinity of the Campbelltown Southern Catchments study area.....	9
Table 2	Adopted Impervious Percentage for Hydrologic Model.....	19
Table 3	TUFLOW Roughness Coefficients	22
Table 4	Blockage factors based upon low debris availability, mobility, and transportability	24
Table 5	Blockage factors based upon high debris availability, mobility, and transportability	24
Table 6	1% AEP unit flow comparison (ARR1987)	29
Table 7	1% AEP peak flow comparison (ARR1987)	30
Table 8	1% AEP peak flood level comparison (ARR1987).....	31
Table 9	Adopted Burst Rainfall Losses for Pervious Surfaces	35
Table 10	Adopted temporal patterns and storm durations for hydraulic analysis.....	38
Table 11	Peak Design Water Levels at Key Locations.....	41
Table 12	Peak Design Water Depths at Key Locations.....	42
Table 13	Peak Design Flow Velocities at Key Locations.....	43
Table 14	Flooding Impacts on Critical and Vulnerable Facilities	45
Table 15	Peak Design Water Levels in Flood Detention Basins.....	46
Table 16	Comparison between ARR2019 and ARR1987 1% AEP Water Levels.....	48
Table 17	Description of Adopted Flood Hazard Categories (Geoscience Australia, 2016).....	49

Table 18	Qualitative and Quantitative Criteria for Hydraulic Categories	54
Table 19	Adopted storms for temporal pattern sensitivity simulations of the 1% AEP event	66
Table 20	Flood Planning Constraint Categories (AIDR, 2017)	75
Table 21	Land use zones falling within each FPCC	76

LIST OF PLATES

Plate 1	LiDAR data points in the vicinity of Woodland Road.....	10
Plate 2	Example of incorrect spatial positioning of stormwater pit	12
Plate 3	Example of disconnected stormwater pit and pipe	12
Plate 4	Example of incorrect pipe direction	13
Plate 5	Example of building polygons being “shifted” relative to aerial imagery (original buildings shown in black and updated buildings in yellow)	14
Plate 6	Example of “missing” building polygons (original buildings shown in black and updated buildings in yellow)	15
Plate 7	Example of “missing” granny flats, sheds and garages (original buildings shown in black and updated buildings in yellow)	15
Plate 8	Local Environmental Plan 2015 zones	16
Plate 9	Example of blockage of culvert following a rainfall event.....	23
Plate 10	Example of blockage of stormwater pit at Oswald Reserve, St Helens Park	26
Plate 11	Example of fences (yellow lines) extracted using cadastre, zoning, and roadway GIS layers.....	27
Plate 12	Subcatchments where the contributing catchment area is less than 1 km ² (yellow) and greater than 1 km ² (red) (aerial image courtesy of Google)	34
Plate 13	“Focus” locations (yellow) selected for critical duration & temporal pattern analysis.....	38
Plate 14	Locations where design flood results were extracted and tabulated	40
Plate 15	Flood hazard vulnerability curves (Ball et al, 2019)	49
Plate 16	Flow Chart for Determining Flood Emergency Response Classifications (AEMI, 2014).	50
Plate 17	Roadway overtopping locations where water depth hydrographs were extracted.	53
Plate 18	Adopted hydraulic category criteria for drainage areas	55
Plate 19	Adopted hydraulic category criteria for urban / non-drainage areas	55
Plate 20	Location of lots for future land swap to be included as developed in the future catchment conditions simulations.....	60
Plate 21	Adopted rainfall increase for climate change simulation (Geoscience Australia, 2019)	62
Plate 22	Adopted ellipses for PMP spatial distribution sensitivity assessment	68
Plate 23	99% Confidence Interval for 1% AEP Water Level	72

1 INTRODUCTION

The *Campbelltown Southern Catchments Flood Study* covers an area of 10.2 km² within the Campbelltown City Council Local Government Area (LGA). The study area incorporates the catchments of Mansfield Creek and Spring Creek as well as several smaller tributaries that drain into the Georges River. As shown in **Figure 1**, the study area extends across parts of the suburbs of Airds, Ambarvale, Bradbury, Rosemeadow and St Helens Park.

The study area comprises a mix of residential and commercial areas with scattered areas of open space. Most of the urbanised portion of the study area is drained by a sub-surface stormwater system. During periods of heavy rainfall there is potential for the capacity of the stormwater system to be exceeded, leading to local overland flooding. There is also potential for water to overtop the banks of the various creeks and inundate the adjoining floodplains.

Accordingly, Campbelltown City Council engaged Catchment Simulation Solutions to prepare the flood study for the Campbelltown southern catchments. It documents flood behaviour across the study area for a range of design floods. This includes information on flood discharges, levels, depths, and flow velocities. It also provides estimates of the variation in flood hazard and hydraulic categories across the catchment and provides an assessment of the potential impacts of climate change and future catchment development on existing flood behaviour.

The flood study comprises two volumes:

- Volume 1 (this document): contains the report text and appendices.
- Volume 2: contains all figures and maps.

2 METHODOLOGY

2.1 Objectives

Campbelltown City Council outlined a range of objectives for the Campbelltown Southern Catchments Flood Study. This included:

- To review available flood-related information for the southern catchments study area.
- Consulting with the community to understand where flooding problems have been experienced.
- To prepare design flow hydrographs describing the spatial and temporal variation in flows across each catchment for both existing and future conditions using a hydrologic computer model.
- To develop a hydraulic computer model to simulate the passage of flood flows across the study area for both existing and future conditions.
- To use the computer models to define peak discharges, water levels, depths and velocities for the design 20% AEP, 5% AEP, 2%AEP, 1% AEP, 0.5% AEP and 0.2% AEP floods, and the Probable Maximum Flood (PMF).
- To produce maps showing the extent, depth and velocity of floodwaters for the range of design floods.
- To produce maps showing provisional flood hazard and hydraulic categories for the range of design floods.
- To produce emergency response precinct classification mapping to assist the State Emergency Service with emergency response planning.
- To quantify the potential impact of climate change on existing design flood behaviour.
- To quantify the potential impact of future development on existing flood behaviour.
- To map the flood planning area and preliminary flood control lots.

2.2 Adopted Approach

The general approach and methodology employed to achieve the study objectives involved:

- Compilation and review of available flood-related information and consultation with the community (Chapter 3).
- The development of a hydrologic model to simulate the transformation of rainfall into runoff and development of a hydraulic model to simulate the movement of floodwaters across the study area (Chapter 4).
- Use of the computer models to estimate peak discharges, water levels, depths, flow velocities and flood extents for the full range of design events up to and including the PMF for existing topographic and development conditions (Chapter 5).
- Use of the computer model results to generate flood hazard and flood function (hydraulic category) mapping as well as flood emergency response classifications (Chapter 6).

- Testing the sensitivity of the results generated by the computer model to variations in model input parameters, future development and climate change (Chapter 7).
- Use of computer model outputs and sensitivity analysis results to prepare flood planning area mapping (Chapter 8).

3 DATA COLLECTION AND REVIEW

3.1 Overview

A range of data were made available to assist with the preparation of the Campbelltown Southern Catchments Flood Study. This included previous reports, hydrologic investigations, digital data and engineering plans.

A description of each dataset along with a synopsis of its relevance to the flood study is summarised below.

3.2 Previous Reports

No previous flood studies have been completed specifically for any of the catchments contained within the Campbelltown Southern Catchments Study Area. However, a rapid assessment flood model of the Mansfield Creek and Spring Creek catchments was previously prepared, and a number of flooding investigations have been completed for the adjoining Bow Bowling/Bunbury Curran Creek catchment. An overview of these past investigations is provided below.

3.2.1 Bow Bowling/Bunbury Curran Creek Flood Studies

The *Bow Bowling/Bunbury Curran (BBBC) Creek Flood Studies* were a collection of eleven individual flood studies that collectively cover the BBBC Creek catchment which is located immediately west of the Campbelltown Southern Catchments.

The BBBC Creek Flood Studies included the following individual flood study reports:

- Birunji Creek Flood Study (Catchment Simulation Solutions, 2018)
- Blairmount Locality Flood Study (Catchment Simulation Solutions, 2018)
- Campbelltown Locality Flood Study (Catchment Simulation Solutions, 2018)
- Claymore Flood Study (Catchment Simulation Solutions, 2018)
- Glenfield and Macquarie Fields Flood Study (Catchment Simulation Solutions, 2018)
- Ingleburn Locality Flood Study (Catchment Simulation Solutions, 2018)
- Minto and McBarron Creek Flood Study (JWP, 2011) and Minto/McBarrown Creek TUFLOW Model Updates (Catchment Simulation Solutions, 2018)
- Smiths Creek Flood Study (Catchment Simulation Solutions, 2018)
- Thompsons Creek Flood Study (Catchment Simulation Solutions, 2018)
- Upper Bow Bowling Creek Flood Study (Catchment Simulation Solutions, 2018)
- Upper Bunbury Curran Creek Flood Study (Catchment Simulation Solutions, 2018)

The main goals of the flood studies were to define flood behaviour across each subcatchment/study area for both existing and potential future catchment and climate conditions. This included the development of hydrologic and hydraulic computer models to define flood behaviour for a range of design floods and flood mapping to present the results of the flood simulations.

Each individual flood study employed similar methodologies to ensure a consistent approach to flood estimation was applied across the BBBC Creek catchment. Campbelltown City Council expressed a desire for the current study to apply similar methodologies, where possible, to ensure consistency in flood estimation across the broader LGA. Therefore, a review of the hydrologic and hydraulic modelling approaches was completed, and the outcome of this review is presented in **Appendix A** (hydrologic modelling) and **Appendix B** (hydraulic modelling).

As outlined in **Appendix A** and **Appendix B**, the hydrologic and hydraulic modelling approaches were largely considered appropriate for application as part of the Southern Catchments Flood Study. However, there have been some advancements in modelling technology and approaches since the BBBC Creek Flood Studies were prepared. Therefore, some refinement of the modelling approaches was determined to be appropriate for the Southern Catchments Flood Study to ensure it followed modern best practice.

The recommended hydrologic updates largely revolve around application of 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Ball et al, 2019) (ARR2019) rather than the 1987 version that was applied as part the BBBC Creek Flood Studies. Key changes associated with ARR2019 include:

- Revised terminology when referring to design floods (e.g., use of Annual Exceedance Probability rather than Average Recurrence Interval).
- Breaking up impervious surfaces into directly connected impervious areas and indirectly connected impervious areas.
- Application of revised design rainfall that takes advantage of approximately 30 years of additional rainfall records.
- Application of revised initial/storm rainfall losses and continuing loss rates.
- Application of a minimum of 10 temporal patterns for each storm frequency and duration.

Several updates were also identified for the hydraulic modelling, including:

- Application of more recent versions of the TUFLOW software which include new features such as High Performance Computing (HPC) and Sub-Grid Sampling (SGS).
- The more detailed topographic and conveyance representation allowed by the new HPC/SGS features may allow the full catchment (including creeks) to be represented in 2D.
- More recent LiDAR information is available to define topography (also refer to Section 3.4.1).
- Review of Council's blockage policy relative to revised blockage guidance provided in ARR2019.

- Application of flows from the hydrologic model to the lowest point in each subcatchment rather than to stormwater pits to avoid double routing of flows (noting that this may require a more detailed subcatchment mapping).
- Reviewing specific fence types where they cross major overland flow paths and assigning specific blockage factors to provide an improved representation of the impediment to flow.

Although some updates to the modelling approaches are recommended, the BBBC Creek Flood Studies provide a solid foundation upon which the Southern Catchments Flood Study can be built. The BBBC Creek Flood Studies also provide valuable information for validating the performance of the models developed for the current study.

3.2.2 TUFLOW Model for the Spring Creek Catchment (2017)

Catchment Simulation Solutions prepared a TUFLOW model for the Spring Creek catchment on behalf of Campbelltown City Council in 2017. The goal of the TUFLOW model was to provide Council with a rapid assessment of flood liable land across catchment areas that were not included as part of the BBBC Creek Flood Studies discussed in the previous section.

The Spring Creek model was subsequently expanded in 2018 to incorporate the Mansfield Creek catchment to assist in quantifying potential flood impacts associated with the proposed upgrade of Appin Road. The extent of the TUFLOW model is shown on **Figure 2**. As shown in **Figure 2**, the Spring Creek TUFLOW model extends across a significant proportion of the Southern Catchments study area.

Key features of the TUFLOW model include:

- 2 metre grid size.
- Topography defined based on 2011 LiDAR.
- Spatial variation in roughness and rainfall losses largely defined using LEP GIS layer. However, additional GIS polygons were delineated by hand to represent concrete channels and car parking areas.
- Representation of all Council owned stormwater pits and pipes as embedded 1-dimensional network.
- All culverts included as embedded 1-dimensional structures. Invert elevations were estimated from LiDAR.
- Rainfall-on-grid approach adopted whereby rainfall is applied directly to the TUFLOW model.
- Critical 1% AEP and PMF storms simulated. 1% AEP hydrology defined based upon 1987 version of 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Engineers Australia).

Although the TUFLOW model provided Council with an understanding of flood behaviour across the Spring Creek catchment, it should be noted that the model development and validation did not undergo the same rigour as a typical government-funded flood study. Furthermore, the 1987 version of Australian Rainfall and Runoff has since been superseded by the 2019 version and new development has occurred across the catchment that would not be reflected in the 2011 LiDAR.

Nevertheless, some of the model inputs and outputs were useful in the development of the hydrologic and hydraulic modes for the current study. This included:

- Materials polygons for concrete channels and car parks were extracted and refined as part of the current study to define Manning's "n" roughness coefficients.
- Dimensions of all culverts were extracted and used to populate the culvert details in the hydraulic model.
- Inundation mapping served to identify where overland flow paths began to form and, therefore, where subcatchment delineation would need to commence as part of the hydrologic model development.

3.2.3 Bow Bowing Bunbury Curran Creek Catchment Detailed Flood Studies Pit Inlet Database Project (2011)

As part of the BBBC Creek Flood Studies, Campbelltown City Council commissioned Catchment Simulation Solutions to develop a Pit Inlet Database (July, 2011). The purpose of the Pit Inlet Database was to develop a set of flow depth versus inflow relationships for the various stormwater pit inlets across the BBBC Creek catchment. The study was commissioned to ensure that a consistent set of inlet capacity curves could be applied uniformly across all of the detailed flood study areas as part of the hydraulic computer modelling.

The inlet capacity curves were developed to take account of:

- The different pit inlet types (e.g., sag inlets, grated inlets, kerb inlets, combination inlets);
- The different pit dimensions and lintel sizes; and,
- The variation in pit approach grades.

The inlet capacity curves were verified against pit inlet capacity curves contained in Campbelltown City Council's '*Engineering Design for Development*' and were found to provide a reliable description of pit inlet capacity. However, the inlet capacity curves do not include any allowance for blockage. Therefore, appropriate blockage factors (i.e., 20% for on-grade pits and 50% for sag inlets) will need to be applied to ensure consistency with Council's DCP.

Due to the consistency in stormwater inlet types across the Campbelltown City Council LGA, the pit inlet database developed as part of this study was also considered appropriate for application to the Southern Catchments Flood Study.

3.2.4 Bow Bowing Bunbury Curran Creek Catchment Hydraulic Categories (2011)

Catchment Simulation Solutions was also commissioned by Campbelltown City Council to define procedures that would allow hydraulic categories to be developed and applied to each of the detailed BBBC Creek flood studies (Catchment Simulation Solutions, 2011a). The study was commissioned to ensure that a uniform approach to the definition of hydraulic categories could be consistently applied across all BBBC Creek flood study areas.

Although the NSW Government's *Floodplain Development Manual* (2005) does not provide quantitative criteria for the definition of hydraulic categories, it was felt that quantitative

criteria could be developed for the BBBC Creek catchment due to the relative uniformity of planning controls, development type, stormwater design standards and topography. Accordingly, Campbelltown City Council developed criteria for defining hydraulic categories across the BBBC Creek catchment based on various combinations of floodwater velocity, depth and the land use (i.e., either 'drainage' or 'other/urban').

The results of the investigation determined that the adopted criteria suitably defined hydraulic categories across the BBBC Creek catchment. Given the similarities in catchment characteristics across the BBBC catchment relative to the Southern Catchments, these criteria were considered suitable for use as part of this investigation to define hydraulic categories.

3.3 Hydrologic Data

3.3.1 Rain Gauge Data

A number of daily read and continuous (i.e., pluviometer) rainfall gauges are located near the study area. A list of rain gauges located within 10 km of the study area is provided in **Table 1**. The location of each gauge is shown in **Figure 3**.

The information provided in **Table 1** indicates that daily rainfall records in the vicinity of the study area are available dating back to the late 1950s/early 1960s. However, continuous rainfall records are only available from 1978 onwards.

3.4 Topographic Information

3.4.1 2019 LiDAR Survey

LiDAR data was collected across Sydney in February 2019 by the NSW Government's Land and Property Information Department. This included all of the Southern Catchments study area.

A digital elevation model (DEM) was developed from the 2019 LiDAR information and is shown in **Figure 4**.

The LiDAR has a stated absolute horizontal accuracy of better than 0.8 metres and an absolute vertical accuracy of better than 0.3 metres and generally provides between 7 and 8 elevation points per square metre.

To validate the accuracy of the LiDAR, the elevations from the DEM shown in **Figure 4** were compared against twenty-one work-as-executed ground survey points for Rosemeadow Reserve. This comparison showed that the average difference between LiDAR elevations and survey elevations was -0.03 metres with a standard deviation of 0.04 metres. The LiDAR elevations were most commonly lower than the ground survey points, however, the maximum difference was -0.08 metres. This indicates that the LiDAR provides a good description of ground elevations in areas of open space (i.e., likely much better than the stated 0.3 metre accuracy).

However, LiDAR datasets can provide a less reliable representation of the terrain in areas of high vegetation density. This is associated with the laser ground strikes often being

restricted by the vegetation canopy. Errors can also arise if non-ground elevation points (e.g., vegetation canopy, buildings) are not correctly removed from the raw dataset.

Table 1 Available rain gauges in the vicinity of the Campbelltown Southern Catchments study area

Gauge Number	Gauge Name	Gauge Type	Source*	Start of Records	End of Records	Distance from centroid of study area (km)
567228	Tbrg at Syd.Water Res'Voir-Flynn Reserve-Bradbury	Continuous	WNSW	1983 Apr	1993 Apr	0.9
68081	Campbelltown Swimming Centre	Daily	BOM	1959 Sep	1984 Dec	1.3
213006	Fishers Ghost Ck at Bradbury Park	Continuous	WNSW	1981 Apr	2020	2.2
568178	Rosemeadow Reservoir at Greco Place	Continuous	SW			2.3
68227	Ambarvale Clennam Ave	Daily	BOM	1988 Sep	2001 Oct	2.3
68015	Campbelltown 2 Mwsdb	Daily	BOM	1946 Oct	1970 Dec	3.1
68014	Campbelltown 1	Daily	BOM		1961 Dec	3.4
68230	Campbelltown U.W.South	Daily	BOM	1992 Feb	1994 Jun	3.8
568179	Campbelltown Bowling Club	Continuous	SW			3.9
68231	Ruse (Denison St)	Daily	BOM	1992 Apr		4.8
568175	Kenny Hill (Trunk receiving station)	Continuous	SW			5.3
68254	Mount Annan Botanic Garden	Daily	BOM	2002 Jan		5.3
68220	Minto (Alderney Street)	Daily	BOM	1984 Mar	1996 Jan	6.6
68037	Kenny Hill	Daily	BOM	1925 Jun	1970 Dec	6.7
568168	Menangle Meteorological Station	Continuous	SW			6.9
568168	Menangle Meteorological Stn.	Continuous	SCA	1990 July		6.9
68160	Kentlyn (Georges R Rd)	Continuous	BOM	1978 Aug	1988 Jun	7.3
68150	Narellan	Daily	BOM		1933 Dec	7.4
68216	Menangle Br (Nepean River)	Operational	BOM	1999 May		7.6
68043	Minto Surrey Street	Daily	BOM		1990 Jan	7.8
68013	Menangle Jmai	Daily	BOM		1998 Jan	7.9
68065	Wedderburn	Daily	BOM	1930 May	1971 Dec	8.0
68159	Wedderburn (Booalbyn)	Daily	BOM	1964 Apr		8.0
568174	Camden Golf Course	Continuous	SW			9.1
568156	Camden Golf Course (Composite)	Continuous	SCA	1987 Mar		9.2
568072	Cobbong	Continuous	SCA	1972 Mar		9.4
568147	Camden (Camden Park Reservoir)	Continuous	SW			9.8

NOTE: * BOM = Bureau of Meteorology, SW = Sydney Water, SCA = Sydney Catchment Authority, WNSW = Water NSW

Plate 1 provides an example of the LiDAR point density in the vicinity of Woodland Road. **Plate 1** shows a high LiDAR point density across grassed and roadway areas. **Plate 1** also shows no ground points across buildings. Therefore, it appears that non-ground points have correctly been removed from the LiDAR dataset.

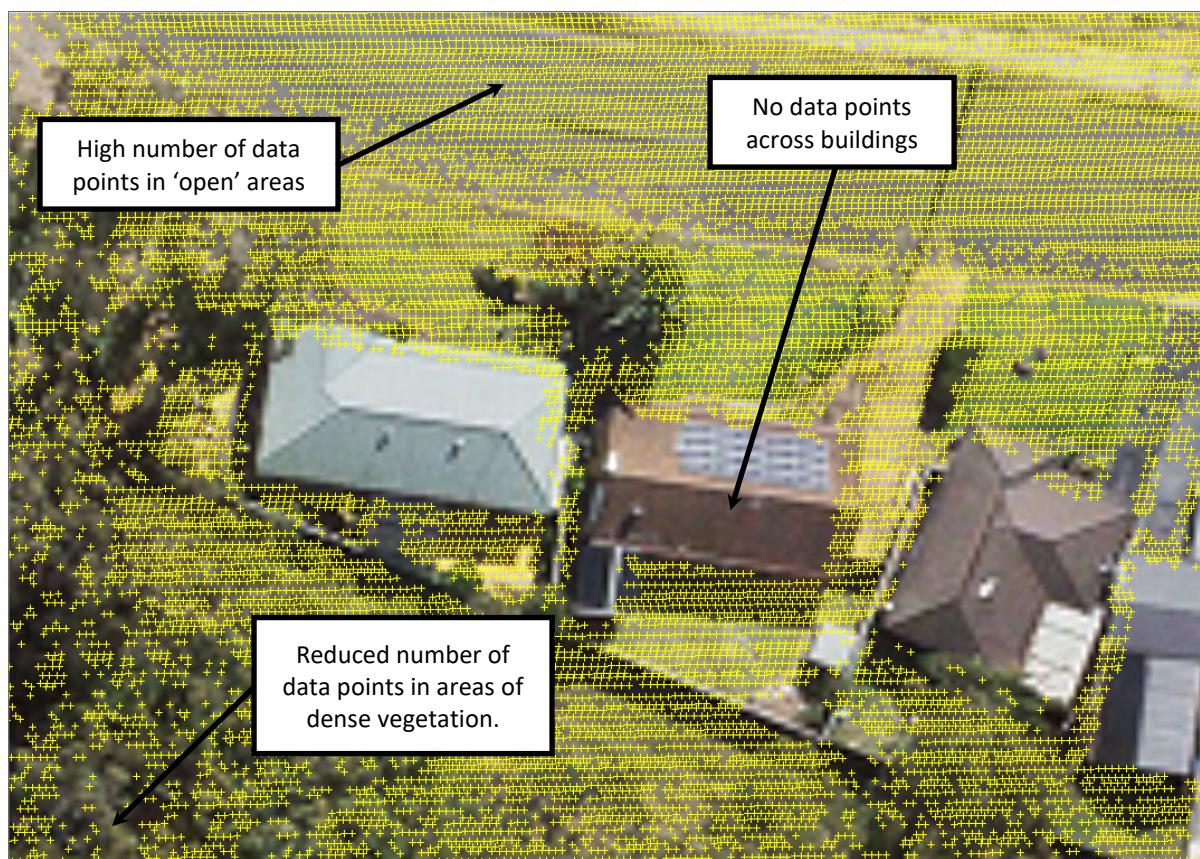


Plate 1 LiDAR data points in the vicinity of Woodland Road

Plate 1 does show reduced point density in the vicinity of dense vegetation. Therefore, there will be a less detailed representation of the variation in terrain in areas of dense vegetation. However, even in areas of dense vegetation, the distance between ground points is typically no greater than 2 metres indicating that there is likely to be sufficient point density to support a 2 metre grid size Digital Elevation Model (DEM).

To confirm the maximum potential resolution of the DEM, the LiDAR ground point densities were extracted from the raw LiDAR information and this information is included on **Figure 5**. This shows that the point density across areas of open space (e.g., roads, sports fields) is most commonly above 2 ground points per square metre (in some areas, the point density exceeds 10 points per square metre). However, in areas of dense vegetation coverage (e.g., eastern sections of the study area), the point density is generally contained between 1 and 2 ground points per square metre. Therefore, there appears to be sufficient point density to support a minimum DEM resolution of at least 1 metre across the full study area. However, a DEM resolution of 0.5 metres could be supported across areas with minimal vegetation coverage.

It was noted that as the LiDAR was collected in 2019, it does not reflect any changes in terrain that have occurred since 2019. Although there have been no large-scale topographic

changes within the study area since 2019, there have been localised changes in terrain that do have the potential to impact on flooding. This includes the Rosemeadow Sports Complex building which adjoins an existing channel/detention area. Fortunately, work-as-executed survey was captured of this new building and adjoining topographic modifications and could be used to update the terrain representation in this area. Further details of this survey information is provided in Section 3.6.

3.5 Geographic Information System (GIS) Data

A number of Geographic Information System (GIS) layers were also provided by Campbelltown City Council to assist with the study. This included:

- Aerial Photography
- Easements
- Cadastre
- Roads
- Building Polygons
- Local Environmental Plan
- Stormwater pits
- Stormwater pipes

The majority of the above layers served as a basis for preparing the various figures displaying the study results (most notably the aerial photography and cadastre). In this regard, the layers are considered fit for purpose.

However, the stormwater, culverts and building footprint layers served as key inputs in the development of the hydraulic model for the study. As a result, these layers were reviewed in detail and the outcome of this review is provided below.

3.5.1 Stormwater

The extent of the stormwater GIS layers are shown in **Figure 2**. A review of these GIS layers determined that there are 2,441 pipes and 2,419 pits located within the study area.

The GIS layers provide a range of attributes for each pit and pipe including pit types, dimensions, invert depths, lintel lengths and pipe sizes. The information contained within this layer can be used in conjunction with the stormwater inlet capacity curves (refer Section 3.2.3) to describe the conveyance capacity of the sub-surface stormwater pipe system.

However, a review of the GIS layer indicated that:

- the position of the stormwater pits was not consistent with those visible on available aerial photography (refer **Plate 2**). Accordingly, the positions of some stormwater pits were modified based upon 2021 aerial photography to ensure they were correctly located.
- Some pits and pipes were disconnected (refer **Plate 3**). Therefore, the pipes were manually “snapped” to the adjoining pit.
- Some pipes were digitised in the wrong direction (the hydraulic model requires pipes to be digitised from upstream to downstream) (refer **Plate 4**).



Plate 2 Example of incorrect spatial positioning of stormwater pit



Plate 3 Example of disconnected stormwater pit and pipe



Plate 4 Example of incorrect pipe direction

- Some pit and pipe inverts did not align. In such cases, the pit and pipe depths were reviewed in the field and the updated depths were used to recalculate the invert elevations based on the LiDAR DEM.
- Some pipes were determined to have an adverse pipe slope. Where the adverse slope was minimal (i.e., $<0.2\%$), the slopes were retained. Where slopes exceeded 0.2% , further field verification of the pipe depths was completed.
- A significant number of pits did not have a pit type description to assist in defining inflow capacity. Therefore, other attributes contained within the GIS layer were used to determine the pit type:
 - o Any pit with a lintel length attribute > 0 was assigned as a kerb inlet with the appropriate lintel length.
 - o Any pit with a "Pit_Length" attribute of 0 was assigned as a junction pit.
 - o Any pit with a "Pit_Length" > 0 was assigned as a grated inlet with grate size informed by pit length and width attributes.

3.5.2 Culverts

Council's culvert and Bridges GIS layers identify the location of most culverts in the study area, as shown in **Figure 2**. However, they do not incorporate all the information that is needed to represent the structures in the hydraulic model. However, as noted in Section 3.2.2, dimensions for all major culverts within the study area were collected as part of previous model development work. When combined with engineering plans, survey information and LiDAR, it provided sufficient information to allow each culvert in **Figure 2** to be represented in the hydraulic model.

It was noted that one culvert at the entrance of Rosemeadow Public School was not included in the culverts layer and details of this structure were collected by Council.

3.5.3 Buildings

Buildings provide one of the most significant flow impediments in an urban catchment. Therefore, they form a critical input into the hydraulic flood model. Council's building polygons were reviewed against the 2021 aerial imagery to confirm if they provide a reliable representation of contemporary buildings within the study area (the buildings layer is included in **Figure 2**).

This review determined that the GIS layer provided a good representation of buildings across most of the study area. However, some modifications to the buildings layer were necessary based on the following review outcomes:

- The spatial positioning of some buildings was found to not reflect the aerial imagery. Therefore, some polygons were "shifted" (refer **Plate 5**).
- Some newer buildings were not captured in the layer. Therefore, additional polygons were digitised by hand based on the aerial imagery (refer **Plate 6**).
- Some smaller buildings (e.g., garages, sheds, granny flats) were not included in the layer and needed to be digitised (refer **Plate 7**).



Plate 5 Example of building polygons being "shifted" relative to aerial imagery (original buildings shown in black and updated buildings in yellow)



Plate 6 Example of “missing” building polygons (original buildings shown in black and updated buildings in yellow)



Plate 7 Example of “missing” granny flats, sheds and garages (original buildings shown in black and updated buildings in yellow)

3.5.4 Land Use

Campbelltown Local Environmental Plan (LEP) Land Use zones across the southern catchments study area are shown in **Plate 8**. It shows that most of the study area comprises low-density residential zoning. Several recreation/open space zones are also scattered across the study area and comprises around 30% of the total area. This includes 'Public Recreation' which makes up much of the eastern section of the study area that adjoins the Georges River. A small B1 zone is located between Copperfield Drive and Appin Road and is home to the Rosemeadow Marketplace as well as Ambervale High School.

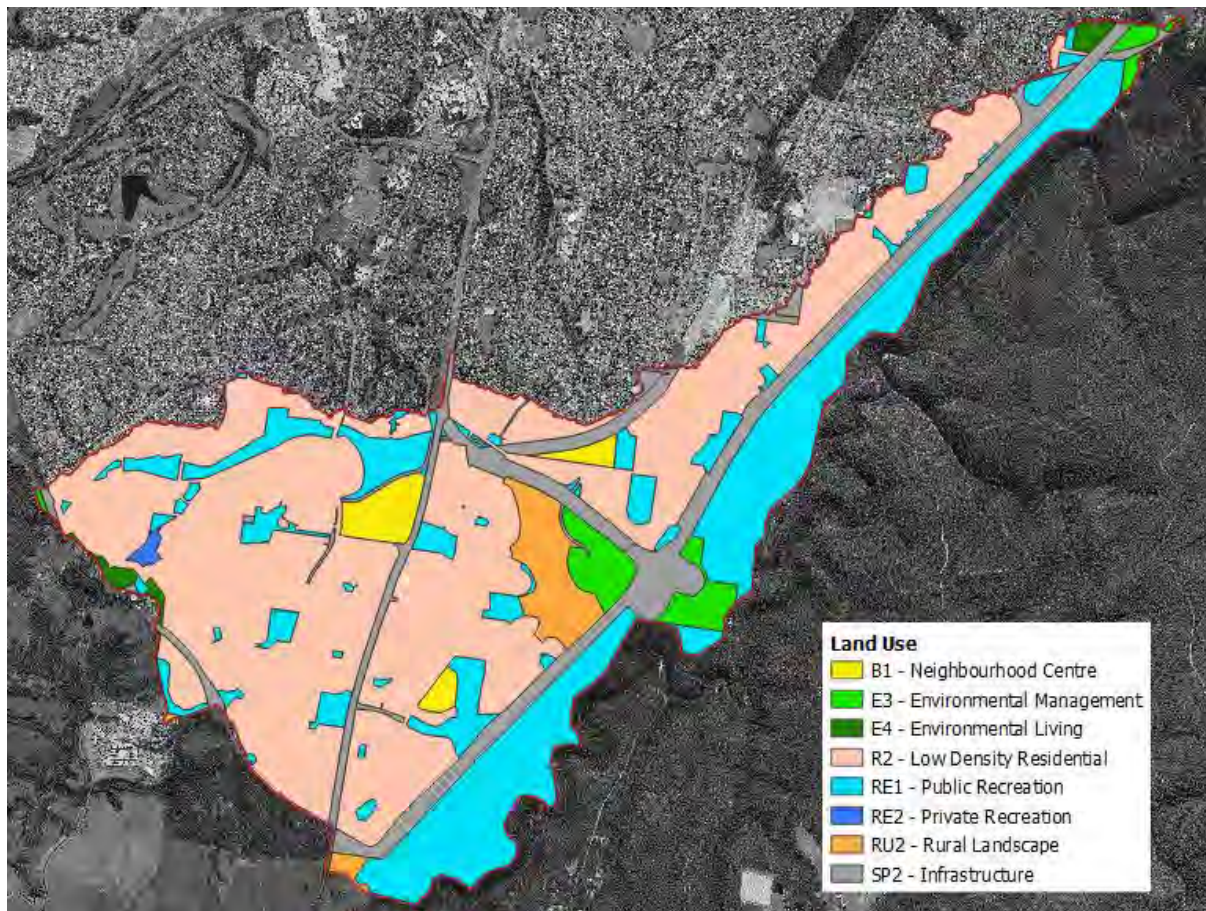


Plate 8 Local Environmental Plan 2015 zones

3.6 Engineering Plans

Campbelltown City Council provided design and work-as-executed plans for several locations within the study area. The area covered by each plan set is shown in **Figure 2** and include:

- **Cleopatra Reserve:** provides details of seven detention basins located between Crisparkle Drive/Demetrius Road and Tomas Acres Reserve at Rosemeadow. This includes basin outlet details and basin crest elevations.
- **Oswald Reserve:** Provides work-as executed survey for the Oswald Reserve detention basin and associated pipe and pit system (including drainage calculations). The area covered by the plans are shown in **Figure 2**.
- **Rosemeadow Sports Complex:** Provide work-as-executed survey of the Rosemeadow Sports Complex building and adjoining works that were completed in June 2021. This

includes details of the channel, detention basin wall and culvert located immediately south of the main building. The area covered by the plans are shown in **Figure 2**.

- **Haydon Reserve:** Provides work-as-executed plans of a subdivision bound by Desdemona Street and Valentine Place at Rosemeadow. This includes details of the local pit and pipe system as well as the Haydon Reserve detention basin located downstream of the subdivision. The area covered by the plans are shown in **Figure 2**.
- **Thomas Acres Reserve:** Provides work-as-executed survey of the Tomas Acres Reserve detention basin. Only ground surface elevations are provided (i.e., the plans do not include details of the drainage system). The area covered by the plans are shown in **Figure 2**.

3.7 Community Consultation

Campbelltown City Council established an online community questionnaire in an effort to collect information from the community regarding past flooding experiences. The questionnaire was advertised via Council's social media and commenced on 30 July 2021 and finished on 27 August 2021. During this period, 30 people visited the page. However, no one completed a questionnaire.

3.7.1 Public Exhibition

The draft *Campbelltown Southern Catchments Flood Study* was placed on public exhibition from 12 December 2022 until 21 February 2023. A copy of the draft report and figures were made available for review on Council's 'Over To You' website. The website had a total of 147 visits. This included 82 visitors who took no further action and 38 visitors that further interrogated information on the page (e.g., clicked on a link).

A community drop-in session was also hosted at the Campbelltown City Council Staff Training Centre (91 Queen Street, Campbelltown) from 3:30pm to 7pm on 1 February 2023. Three people attended the drop-in session, however, none of the people lived within the study area.

No submissions were received during the exhibition or at the drop-in session.

4 COMPUTER FLOOD MODELS

4.1 General

Computer models are the most common method of simulating flood behaviour through a particular area of interest. They can be used to predict flood characteristics such as peak discharges, flood level and flow velocity for a range of floods.

Two computer models were developed to simulate flood behaviour across the study area:

- An XP-RAFTS hydrologic model was developed to simulate the transformation of rainfall into runoff across the catchment; and,
- A TUFLOW hydraulic model was developed to simulate how the runoff would be distributed/move across the study area.

The following sections describe the model development process.

4.2 XP-RAFTS Model Development

4.2.1 Subcatchment Delineation

Each of the catchments draining through the study area were subdivided into a number of smaller subcatchments to provide a detailed description of the spatial variation in hydrologic characteristics across the study area. The subcatchments were delineated with the assistance of the CatchmentSIM software (Catchment Simulation Solutions, 2018) using a 2 metre Digital Elevation Model (DEM) that was developed based on the LiDAR datasets described in Section 3.4.1.

A major goal of the study was to define overland flood behaviour. Therefore, it was necessary for the subcatchment delineation to be sufficiently detailed to ensure all potential overland flow paths were identified. Based on experience in similar overland flood studies in the Sydney metropolitan area, significant overland water depths (i.e., >0.1m) are frequently encountered once the contributing catchment area reaches about 2 hectares. Therefore, the subcatchment delineation targeted incorporating subcatchment outlets once the contributing catchment area reached approximately 1-2 hectares to ensure all potential overland flow paths were captured.

A total of 673 subcatchments were ultimately delineated across the study area. The final subcatchment layout is presented in **Figure 6**.

4.2.2 Subcatchment Parameterisation

The study area comprises a mix of urbanised areas along with some significant areas of open space. The mix of pervious and impervious surfaces will typically result in a significant difference in hydrologic response across most subcatchments, viz:

- rapid rainfall response and low infiltration potential for impervious areas; and,

- slower rainfall response and high infiltration potential for pervious areas.

In recognition of the differing characteristics of the two hydrologic systems, each XP-RAFTS subcatchment was subdivided into two sub-areas. The first sub-area was used to represent the pervious sections of the subcatchment and the second sub-area was used to represent the impervious sections of the subcatchment. The division of each subcatchment into pervious and impervious sub-areas allows different loss rates and roughness coefficients to be specified, thereby providing a more realistic representation of rainfall-runoff processes from the two different hydrologic systems.

Key hydrologic properties including area and average slope were calculated automatically for each subcatchment using CatchmentSIM. Estimates of impervious proportions within each subcatchment were based on Council's Local Environmental Plan (LEP) GIS layer. This was supplemented with additional land use polygons where the imperviousness varied significantly from the underlying land use zone. This included roads, concreted areas, and car parks. Each of these additional land uses were digitised by hand based upon 2021 aerial imagery. The adopted impervious proportions that were applied to each land use are summarised in **Table 1**.

Table 2 Adopted Impervious Percentage for Hydrologic Model

Zone	Description	Impervious Proportion (%)
B1	Neighbourhood Centre	90
E3	Environmental Management	5
E4	Environmental Living	60
R2	Low Density Residential	80
RE1	Public Recreation	10
RE2	Private Recreation	15
RU2	Rural Landscape	5
SP2	Infrastructure (non drainage)	90
	Infrastructure (drainage)	50
Roads	-	90
Concrete	-	100
Car Parks	-	100

A pervious roughness value of 0.030 was adopted for pervious sub-areas of each subcatchment and a roughness value of 0.015 was adopted for impervious sub-areas of each subcatchment.

The final adopted subcatchment parameters for existing conditions are provided in **Appendix C**.

4.2.3 Stream Routing

The sub-catchment area, roughness, slope and percentage impervious parameters that are input into the XP-RAFTS model are used by the model to estimate the transformation of rainfall excess into runoff for each subcatchment. In addition to local subcatchment runoff, most sub-catchments will also carry flow from upstream catchments along the main watercourses. The flow along the watercourses in XP-RAFTS is represented using a “link” between successive sub-catchment “nodes”. The location of subcatchment nodes and links is provided in **Figure 6**.

For this study, time delay lag routing was employed to represent the routing of runoff along the main watercourses and overland flow paths into downstream subcatchments. The time delay value for each flow path was calculated using the Bransby-Willams formula.

4.2.4 Rainfall Loss Model

During a typical rainfall event, not all of the rain falling on a catchment is converted to runoff. Some of the rainfall may be intercepted and stored by vegetation, some may be stored in small depressions and some may infiltrate into the underlying soils.

To account for rainfall “losses” of this nature, the hydrologic model incorporates a rainfall loss model. For this study, the “Initial-Continuing” loss model was adopted, which is recommended in ‘Australian Rainfall & Runoff’ (Geoscience Australia, 2019). This loss model assumes that a specified amount of rainfall is lost during the initial saturation/wetting of the catchment (referred to as the ‘Initial Loss’). Further losses are applied at a constant rate to simulate infiltration/interception once the catchment is saturated (referred to as the ‘Continuing Loss Rate’). The initial and continuing losses are deducted from the total rainfall over the catchment, leaving the residual rainfall to be distributed across the catchment as runoff.

It is noted that the floods across New South Wales (including the Sydney area) in 2022 have illustrated the potential for floods in relatively quick succession. This has shown that catchments may be “saturated” from a previous flood and have little capacity for additional rainfall losses during subsequent rainfall events. Although the rainfall loss approach adopted as part of the current study reflects current best practice, the recent floods may necessitate a review of design rainfall losses. If this is the case, the current study will need to be revisited to ensure it continues to provide the best possible description of the flood risk across the study area.

4.2.5 Detention Basins

The Campbelltown southern catchments study area includes several detention basins. The basins are designed to attenuate downstream flows from the local catchment by temporarily storing runoff. Due to the potential for the basins to impact on downstream flows, they were represented in the XP-RAFTS model.

The representation of flood storage/detention basins in XP-RAFTS requires the storage and discharge (i.e., outflow) characteristics of the basin to be defined. This information was developed as follows:

- Stage-storage relationships were developed for each basin from the 2019 LiDAR information.

- Stage-discharge relationships were developed using preliminary TUFLOW model simulation results (the TUFLOW model is discussed further in Section 4.3). This enabled a stage - discharge relationship to be developed for each basin that took account of basin inflows, storage characteristics and tailwater conditions in the downstream watercourses/basins.

Most detention basins within the study area do not contain a permanent water surface and were assumed to be “empty” at the start of each flood simulation. For the Mandurama Reserve water body, it was assumed that the water level was at the same elevation as the main outlet pipe (i.e., this water feature was “full” at the start of each flood simulation).

The location of each basin included in the XP-RAFTS model is shown in **Figure 6**.

4.3 TUFLOW Model Development

4.3.1 Model Extent

A 2-dimensional hydraulic computer model of the study area was developed using the TUFLOW Highly Parallelised Computer (HPC) software (version 2020-10-AB). TUFLOW is a fully dynamic, 1D/2D finite difference model developed by BMT WBM (2012). It was selected for the project as it provides the following advantages:

- The software was developed through collaborative efforts with universities and research organisations to ensure it is scientifically of a high standard and is thoroughly benchmarked (BMT, 2020).
- The software is used extensively across Australia and overseas to simulate flood behaviour and, therefore, has a strong pedigree of proven performance in similar studies.
- The HPC version of the software takes advantage of the additional processing power of graphics cards to provide expedited simulation times. This allows the model simulations to be completed within short time frames relative to previous versions of the software
- It is fully dynamic. That is, it simulates the time variation in flood hydraulics along the river and across the floodplain. This is particularly important for evaluation of time-related flood behaviour with implications for emergency management, such as the amount of time before evacuation routes are cut and how long they would remain submerged.

The extent of the TUFLOW model area is shown in **Figure 7**. As shown in **Figure 7**, the TUFLOW model extends across the full extent of the study area extending downstream to the edge of the Georges River.

4.3.2 Grid Size

The TUFLOW software uses a grid to define the spatial variation in topography and hydraulic properties (e.g., roughness coefficients) across the model area. Accordingly, the choice of grid size can have a significant impact on the performance of the model. In general, a smaller grid size will provide a more detailed and reliable representation of flood behaviour relative to a larger grid size. However, a smaller grid size will take longer to perform all of the necessary hydraulic calculations. Therefore, it is typically necessary to select a grid size

that makes an appropriate compromise between the level of detail provided by the model and the associated computational time required. A grid size of 2 metres was ultimately adopted and was considered to provide a reasonable compromise between reliability and simulation time.

In addition, a new TUFLOW feature called sub-grid sampling (SGS) was employed as part of the model setup. When SGS is employed, TUFLOW will calculate water level versus storage volume relationships based on a more detailed underlying terrain representation rather than relying on a single elevation at the centre of the grid cell (as was used for the BBBC Creek flood studies). Similarly, TUFLOW will calculate water level versus discharge relationships across each cell side based on the more detailed terrain rather than relying on the elevation at the midpoint of each cell to control when water moves from one cell to the next. This feature allows storage and conveyance to be represented in more detail than would have otherwise been allowed. Based on the LiDAR point density information presented in Section 3.4.1, a 0.5 metre SGS interval was selected for the TUFLOW model to derive the storage and conveyance properties within each TUFLOW model cell. The SGS information was populated based on the DEM developed from the LiDAR information described in Section 3.4.1.

4.3.3 Hydraulic Roughness Values

The TUFLOW software employs material polygons to define the variation in hydraulic roughness across a particular study area. The LEP GIS layers were used as a starting point for assigning material polygons to the model area. This was supplemented with hand delineation of additional material types based on 2020 aerial imagery.

Different roughness coefficient values were assigned to each material type to define the resistance to flow afforded by the different material types. The adopted material types and the corresponding roughness values are provided in **Table 2** and are consistent with the values adopted as part of the BBBC Creek flood studies.

Table 3 TUFLOW Roughness Coefficients

Material Description	Roughness Coefficient
Open space (i.e., grass)	0.030
Buildings	1.000
Grass with sparse tree coverage	0.060
Grass with dense tree coverage	0.080
Industrial/commercial area	0.025
Car Park (with parked cars)	
Depth < 0.3m - water in contact with vehicle tyres only,	Depth ≤ 0.3m = 0.100
Depth > 0.3m - water in contact with vehicle bodies	Depth > 0.3m = 1.000
Roadway reserve (asphalt with grassed nature strip)	0.022
Concrete	0.015
Creek channel with vegetation lining banks	0.050
Rocks/rip-rap	0.040

4.3.4 Culverts

Culverts can have a significant influence on flood behaviour. Therefore, all culverts within the study area were represented within the TUFLOW model as 1D hydraulic structures. The location of culverts that were included within the TUFLOW model is shown in **Figure 7**.

For culverts, the physical dimensions and invert elevations of the structures were included directly in the TUFLOW model (this was informed from the plans documented in Section 3.6 as well as Council asset information). Entry and exit loss coefficients were defined based on default values provided in the TUFLOW Manual (BMT WBM, 2012). Typically, an entry loss coefficient of 0.5 and an exit loss coefficient 1.0 was adopted for all culverts.

Blockage

As shown in **Plate 9**, during a typical flood, sediment, vegetation and urban debris (e.g., litter) from the catchment can become mobilised leading to blockage of downstream culverts. Consequently, culverts will not operate at full efficiency during most floods. This can increase the severity of flooding across areas located adjacent to these structures. In recognition of the potential for blockage to occur during a flood, blockage factors were applied to culverts.



Plate 9 Example of blockage of culvert following a rainfall event

Each BBBC Creek Flood Study applied blockage to each culvert in accordance with Council's '*Engineering Design for Development*' (2014). This involved application of a blockage factor of 50% to all culverts with a diagonal dimensions less than 3 metres. Larger culverts were not assigned a blockage factor.

It was recognised that updated blockage guidance was released as part of 'Australian Rainfall and Runoff – A Guide to Flood Estimation' (Ball et al, 2019) (ARR2019). Therefore, a review of the previously adopted blockage factors was completed relative to this more contemporary guidance to confirm the most suitable blockage factors to apply to the TUFLOW model.

One of the key differences between the previously adopted blockage factors and the ARR2019 guidance is that the revised blockage factors not only depend on the size of the culvert, but also on a range of additional factors including:

- the size of the debris that is likely to be mobilised from the upstream catchment
- the availability, mobility, and transportability of the debris
- the severity of the flood (i.e., higher blockage factors are assigned during larger floods and lower blockage factors adopted during smaller floods)

Therefore, ARR2019 blockage calculations were completed for structure sizes less than and greater than 3 metres (the threshold size that triggers different Council blockage factors) and for differing design floods, debris sizes and debris availability, mobility, and transportability. The outcomes of this assessment are summarised in **Table 4** and **Table 5**. Council's blockage factors are also included for comparison.

When reviewing the blockage factors, the debris size most likely to be encountered in the study area will be in the 1 metre to 2.99 metre range (e.g., fence palings, wheely bins, tree branches). This debris range is highlighted in each table. In addition, the study area is likely to be considered closer to a low availability, mobility, and transportability catchment (i.e., **Table 4**) rather than a high availability, mobility, and transportability catchment (i.e., **Table 5**).

Table 4 Blockage factors based upon low debris availability, mobility, and transportability

Debris Size (m)	Blockage (structure ≤ 3m)				Blockage (structure > 3m)			
	ARR2019			Council	ARR2019			Council
	AEP>5%	5% - 0.5% AEP	AEP < 0.5%		AEP>5%	5% - 0.5% AEP	AEP < 0.5%	
0.01 - 0.99	0%	0%	0%	50%	0%	0%	0%	0%
1.00 - 2.99	0%	0%	10%	50%	0%	0%	0%	0%
3.00 - 5.99	25%	25%	50%	50%	0%	0%	10%	0%
> 6.00	25%	25%	50%	50%	25%	25%	50%	0%

Table 5 Blockage factors based upon high debris availability, mobility, and transportability

Debris Size (m)	Blockage (structure ≤ 3m)				Blockage (structure > 3m)			
	ARR2019			Council	ARR2019			Council
	AEP>5%	5% - 0.5% AEP	AEP < 0.5%		AEP>5%	5% - 0.5% AEP	AEP < 0.5%	
0.01 - 0.99	0%	10%	10%	50%	0%	10%	10%	0%
1.00 - 2.99	10%	20%	20%	50%	0%	10%	10%	0%
3.00 - 5.99	50%	100%	100%	50%	10%	20%	20%	0%
> 6.00	50%	100%	100%	50%	50%	100%	100%	0%

The blockage factors in **Table 4** and **Table 5** show that:

- Council's blockage factors are likely to provide higher/more conservative blockage factors for culverts with a diagonal dimension less than 3 metres across most debris sizes and debris available, mobility, and transportability.
- Council's blockage factors are likely to afford similar blockage factors for culverts with a diagonal dimension greater than 3 metres across most debris sizes with low debris available, mobility, and transportability (the most likely circumstance for the study area).

Overall, Campbelltown City Council's blockage factors are either similar to or higher than the equivalent ARR2019 blockage factors for the catchment conditions most likely to be encountered across the southern catchments study area. Near smaller culverts, the Council blockage factors are likely to provide more conservative (i.e., higher) flood levels upstream of the structures and lower flood levels downstream of the structures.

Overall, it was considered that adoption of Council's blockage factors would be preferential as they provide comparable, if slightly conservative, blockage factors and would ensure consistency with the blockage factors adopted as part of the BBBC Creek flood studies. Furthermore, the Council blockage factors provide a better reflection of observed blockage (refer **Plate 9**) and arguably provide a better reflection of increased blockage potential associated with intense, localised rainfall events that may provide the equivalent of a higher AEP event in localised areas.

4.3.5 Stormwater System

The stormwater system has the potential to convey a significant proportion of runoff across the urbanised sections of the study area during more frequent rainfall events. Therefore, it was considered important to incorporate the stormwater system in the TUFLOW model to ensure the interaction between piped stormwater and overland flows was reliably represented.

All Council-owned stormwater assets contained within the study area was included within the TUFLOW model as a dynamically linked 1D network. This allowed representation of the conveyance of flows by the stormwater system below ground as well as simulation of overland flows in two dimensions once the capacity of the stormwater system is exceeded.

The extent of the stormwater system included within the TUFLOW model is shown in **Figure 7**. It should be noted that no private stormwater infrastructure was included in the model. Therefore, the extent and depth of inundation across some properties (e.g., large commercial or industrial properties with a significant local stormwater system), may be overstated.

The properties of the stormwater system (e.g., pit types/sizes, pipe lengths/diameters) were defined using information contained in Council's stormwater asset database as well engineering plans and field measurements collected by Council. The details of some stormwater information were also assigned based upon interpretation of other stormwater properties where data could not be extracted directly (as discussed in Section 3.5.1).

The capacity of the stormwater system is dependent not only on the characteristics of the individual stormwater pipes, but also the various stormwater pits/inlets that capture surface runoff and distribute this runoff to the pipe system. To account for the varying capacity of the different stormwater inlet types across the study area, the pit inlet database developed as part of the '*BBBC Creek Catchment Detailed Flood Studies Pit Inlet Database*' (Catchment Simulation Solutions, 2011b) was utilised and applied to all pits within the study areas. The database describes the inlet capacities of approximately ninety different pit types located throughout the study area as a water depth versus inlet capacity relationship.

Hydraulic “losses” throughout the stormwater system were estimated using the Engelund loss approach (BMT WBM, 2015). This loss approach automatically accounts for the following loss components at each stormwater pit for each model time step:

- 💧 Pit entrance loss;
- 💧 Loss associated with a drop in elevation between inlet and outlet pipes;
- 💧 Loss associated with a change in flow direction between the inlet and output pipes; and,
- 💧 Pit exit loss.

Blockage

Like culverts, stormwater inlets may become blocked by debris during the course of a flood (refer to **Plate 10**). Accordingly, blockage factors were also assigned to all stormwater pits as part of the flood simulations to reflect the reduced inflow capacity that would occur with partial pit blockage.



Plate 10 Example of blockage of stormwater pit at Oswald Reserve, St Helens Park

A 50% blockage factor was also applied to all sag stormwater inlets and 20% blockage was applied to on-grade stormwater inlets in accordance with Council's '*Engineering Design for Development*' (2014).

The impact of no blockage as well as complete blockage of stormwater pits was assessed as part of the model sensitivity analysis.

4.3.6 Fences

Fences can provide a significant impediment to overland flow in urbanised catchments. Therefore, it was also considered important to include a representation of fences within the TUFLOW model. An automated approach that was developed as part of the BBBC Creek Flood Studies was employed to extract approximate fence alignments across the entire study area based on available information contained in Council's GIS. An extract of the fence lines that were generated based on this approach are shown in **Plate 5**.



Plate 11 Example of fences (yellow lines) extracted using cadastre, zoning, and roadway GIS layers.

Unfortunately, there is little information available describing the blockage afforded by different fences. The Australian Rainfall & Runoff 'Project 11: Blockage of Hydraulic Structures' (Engineers Australia, 2013) suggests that blockage factors of between 50% and 100% would typically be appropriate for fences located in overland flow paths. Based upon this information, a blockage factor in the centre of this range was adopted for all fence types (i.e., 75%).

Although it could be argued that this blockage factor would be too high for permeable fencing such as wire mesh type fencing, it was recognised that even permeable fence types can become partially blocked during a flood. For example, during the early stages of a flood, debris (e.g., leaves, branches) can be mobilised and conveyed down overland flow paths

until it reaches an obstruction whose aperture is too small to transmit the debris (i.e., gaps in fencing). Therefore, by the peak of the flood there is a significant probability that most fences will be at least partially blocked with debris.

Although the height of each fence across the study area varies, available information suggests that most fence types will fail once the water depth and associated debris height exceeds 0.5 metres. Therefore, the 75% blockage factor was applied for fences subject to water depths up to 0.5 metres. Any water exceeding a water depth of 0.5 metres was assumed to “overtop” the fence and no blockage was applied. The 0.5 metre fence height was considered to provide a reasonable estimate of the degree of blockage that can be provided by an average fence without failing.

4.3.7 Detention Basins and Water Storages

As discussed in Section 4.2.5, the study area incorporates a number of formal detention basins and water features that may attenuate downstream flows during rainfall events. Therefore, a representation of each storage was included in the TUFLOW model.

The absence of any water level monitoring gauges within each basin or water feature means that the normal operating water level (or range of operating water levels) of each storage is not known. In the absence of any water level information, it was assumed that all “wet” water storages (e.g., Mandurama Reserve) were full at the start of each simulated flood. No water was included within “dry” detention basins.

4.4 Model Validation

Hydraulic computer models typically require the adoption of inputs that are not always known with a high degree of certainty, such as blockage of hydraulic structures and hydraulic roughness values. Therefore, hydraulic models are typically calibrated based upon historic flood information to ensure they are producing reliable estimates of flood behaviour. Unfortunately, no rain or stream gauges are located within the study area. In addition, no historic flood mark information was available within the study area. Accordingly, there is insufficient historic information available to calibrate the hydraulic model.

Therefore, in the absence of historic flood information, the XP-RAFTS and TUFLOW model results were validated against results documented in other flooding investigations. The outcomes of the validation are summarised below.

4.4.1 Hydrologic Model

The XP-RAFTS hydrologic model developed as part of the current study was used to simulate a preliminary 1% AEP storm to assist with validating the results produced by the XP-RAFTS model. This was completed based upon guidance provided in ‘Australian Rainfall and Runoff – A Guide to Flood Estimation’ (Engineers Australia, 1987) (ARR1987). Although ARR1987 has since been superseded by a more recent release of Australian Rainfall & Runoff (i.e., ARR2019), ARR1987 was adopted as part of the validation simulations to ensure consistency with the previous flooding investigations that were used for validation purposes. Peak 1% AEP discharges for each subcatchment that were produced as part of these simulations are provided in **Appendix D**.

The XP-RAFTS model results were first validated by preparing unit flow estimates for each subcatchment (i.e., dividing the peak 1% AEP discharge by the contributing catchment area). This was compared against unit flows for four subcatchments contained within the BBBC Creek catchment that share similar hydrologic characteristics as the southern catchments. The goal of this assessment was to confirm that the XP-RAFTS model developed as part of the current study was generating comparable runoff per unit area to other XP-RAFTS models with similar catchment characteristics within the Campbelltown LGA.

The outcome of this comparison is provided in **Table 6**. As shown in **Table 6**, the average unit flow is provided along with 10th and 90th percentile unit flow values so an understanding of the spread of unit flow values can also be obtained.

Table 6 1% AEP unit flow comparison (ARR1987)

Catchment	Area (km ²)	Average Impervious	Unit Flow (m ³ /s per ha)		
			10 th Percentile	Average	90 th Percentile
Campbelltown Southern Catchments	10.2	61%	0.41	0.48	0.53
Claymore	4.0	66%	0.38	0.46	0.52
Birunji Creek	3.1	75%	0.37	0.44	0.53
Thompsons Creek	5.6	53%	0.23	0.47	0.52
Upper Bunbury Curran Creek	18.4	28%	0.26	0.48	0.53

The information in **Table 6** shows that the newly developed XP-RAFTS model provided an average unit flow and 90th percentile unit flow that is comparable to each of the other XP-RAFTS model. **Table 6** also shows that the new XP-RAFTS model does provide a slightly higher 10th percentile unit flow although this value shows the most variability across each catchment. Furthermore, the 10th percentile unit flow value generated by the new XP-RAFTS model is similar to the Claymore and Birunji Creek models which provides the most comparable catchment characteristics indicating that the unit flow estimates are reasonable.

The peak 1% AEP discharges produced by the new XP-RAFTS model were also compared against 1% AEP discharges produced by the Spring Creek TUFLOW model (refer Section 3.2.2) at several locations. Although it is acknowledged that the Spring Creek model was not developed with the same rigour as a typical government-funded flood study, it is useful to understand whether the XP-RAFTS model developed for the current study is producing reasonable and comparable peak discharge estimates. This comparison is provided in **Table 7**.

It was noted that the XP-RAFTS model developed for the current study incorporates no allowance for blockage of culverts (including detention basin outlets) so some of the results were not directly comparable to the Spring Creek TUFLOW model which incorporated blockage allowances (blockage would generally serve to attenuate flow). Therefore, the 1% AEP flows produced by the XP-RAFTS model were applied to the TUFLOW model also developed as part of the current study (which includes blockage allowances) and the

TUFLOW model was used to route the XP-RAFTS flows across the study area. Peak flows extracted from the TUFLOW model developed for the current study are also provided in **Table 7**.

Table 7 1% AEP peak flow comparison (ARR1987)

Location	XP-RAFTS Model Subcatchment	Peak 1% AEP Discharge (m ³ /s)		
		Spring Creek TUFLOW Model	Current Study	
			XP-RAFTS	TUFLOW
Orlick St, Rosemeadow	83.01	1.00	1.18	1.05
Thomas Acres Reserve, Rosemeadow	44.16	4.42	6.90	4.56
Copperfield Dr, Rosemeadow	44.17	5.65	7.37	5.64
Anthony Drive, Rosemeadow	1.11	9.06	15.1	10.0
Thomas Rose Drive, St Helens Park	1.15	16.1	25.6	16.9
Rosemeadow Basin 1 southern inlet	1.16	19.8	29.3	20.9
Rosemeadow Basin 2 outlet	1.19	22.3	28.4	23.1
Pinaroo Cres, Bradbury	102.02	1.93	3.26	2.21
Upstream of St Helens Park Dr, St Helens Park	1.22	22.8	23.3	23.3
St Helens Park Dr (near Holman Pl), St Helens Park	116.01	5.73	8.67	5.55
Downstream of St Helens Park Dr, St Helens Park	1.24	31.0	35.0	33.8

The results in **Table 7** show that the “raw” XP-RAFTS model flows are generally higher than the Spring Creek flows. However, after the XP-RAFTS flows are routed through the TUFLOW model, the flows are more comparable. More specifically, the combination of the newly developed XP-RAFTS model and TUFLOW model produced peak discharges that are within 10% of the Spring Creek TUFLOW model discharges. **Table 7** also shows that the flow estimates generated for the current TUFLOW model are generally slightly higher than the Spring Creek model. This is most likely associated with the Spring Creek model incorporating a representation of additional storage within the catchment (e.g., localised depressions, water getting trapped behind flow obstructions such as buildings). However, the new flow estimates are considered to be realistic and comparable to the Spring Creek TUFLOW model. When these results are combined with the unit flow comparisons, it indicates that the discharge estimates generated by the new hydrologic and hydraulic models are comparable with other nearby studies.

4.4.2 Hydraulic Model

As outlined in the previous section, the newly developed TUFLOW model was used to simulate flood behaviour for the 1% AEP event based upon ARR1987. The simulated water depths and velocity vectors were extracted from this simulation and are provided in **Figure 8**.

The peak 1% AEP water levels produced by the TUFLOW model were also validated against peak 1% AEP flood levels produced by the Spring Creek TUFLOW model (refer Section 3.2.2).

This comparison is provided in **Table 8** for a number of locations spread across Ambarvale, Bradbury, Rosemeadow and St Helens Park.

Table 8 1% AEP peak flood level comparison (ARR1987)

Location	Peak 1% AEP Level (mAHD)		Difference (m)
	Spring Creek TUFLOW Model	Current Study TUFLOW Model	
Orlick St, Ambarvale	130.35	130.38	0.03
Haredale St, Ambarvale	142.83	142.90	0.07
Pinaroo Cres, Bradbury	120.23	120.23	-0.01
Demetrius Rd, Rosemeadow	140.81	140.71	-0.10
Hayden Park, Rosemeadow	138.33	138.17	-0.16
Cleopatra Reserve, Rosemeadow	131.60	131.41	-0.19
Malvolio St, Rosemeadow	147.92	148.06	0.14
Copperfield Dr @ Fitzgibbon Ln, Rosemeadow	129.75	129.77	0.02
Thomas Rose Dr, Rosemeadow	127.63	127.69	0.06
Thomas Acres Reserve, Rosemeadow	125.64	125.47	-0.17
Copperfield Dr @ Cleopatra Dr, Rosemeadow	124.14	124.28	0.14
Rosemeadow Basin 1, Rosemeadow	122.80	122.79	-0.01
Rosemeadow Basin 2, Rosemeadow	120.42	120.51	0.09
St Helens Park Drive (South), St Helens Park	126.19	126.23	0.04
Kellerman Dr, St Helens Park	135.49	135.58	0.09
Ironside Ave, St Helens Park	118.36	118.52	0.16
St Helens Park Dr (North) St Helens Park	117.21	117.14	-0.07

The results in **Table 8** show that the TUFLOW model developed for the current study produced peak 1% AEP flood levels that are within ± 0.2 metres of the Spring Creek TUFLOW model with most flood levels agreeing to better than ± 0.1 metres. The absolute average difference between flood levels is 0.09 metres. Therefore, it can be concluded that the TUFLOW model developed for the current study is producing realistic flood level estimates and will provide a suitable tool for undertaking the design flood simulations.

5 DESIGN FLOOD ESTIMATION

5.1 General

Design floods are hypothetical floods that are commonly used for floodplain management investigations. Design floods are based on statistical analysis of rainfall and flood records and are typically defined by their probability of exceedance. This is often expressed as an Annual Exceedance Probability (AEP).

The AEP of a flood flow or level or depth at a particular location is the probability that the flood flow or level or depth will be equalled or exceeded in any one year. For example, a 1% AEP flood is the best estimate of a flood that has a 1% chance of being equalled or exceeded in any one year.

Design floods can also be expressed by their Average Recurrence Interval (ARI). For example, the 1% AEP flood can also be expressed as a 100 year ARI flood. That is, the 1% AEP flood will be equalled or exceeded, on average, once in a 100 years.

It should be noted that there is no guarantee that a 1% AEP flood will occur once in a 100-year period. It may occur more than once, or at no time at all in the 100-year period. This is because design floods are based upon a long-term statistical average. Therefore, it is prudent to understand that the occurrence of recent large floods does not preclude the potential for another large flood to occur in the immediate future.

Design floods are typically estimated by applying design rainfall to the hydrologic model to calculate the rainfall excess. The hydraulic model is then used to route the flow hydrographs produced by the hydrologic model across the catchment and calculate key flood variables such as design flood levels, depths and velocities. The procedures employed in deriving the design flood estimates for the study area are outlined in the following sections.

5.2 Hydrology

5.2.1 Rainfall

Point design rainfall depths were downloaded from the Bureau of Meteorology's IFD webpage. The rainfall was downloaded at the centroid of the study area (-34.1007°, 150.8107°). A copy of the point design rainfall depths is enclosed in **Appendix E**. Also included in **Appendix E** is the corresponding ARR1987 rainfall. This shows that the ARR2019 rainfall is most commonly lower than the ARR29187 rainfall.

As part of the flood study it was also necessary to define flood characteristics for the Probable Maximum Flood (PMF). The PMF is considered to be the largest flood that could conceivably occur across a particular area.

The PMF is estimated by routing the Probable Maximum Precipitation (PMP) through the XP-RAFTS model. The PMP is defined as the greatest depth of rainfall that is meteorologically possible at a specific location.

PMP depths were derived for a range of storm durations up to and including the 6-hour event based on procedures set out in the Bureau of Meteorology's '*Generalised Short Duration Method*' (GSDM) (Bureau of Meteorology, 2003). The GSDM PMP calculations are included in **Appendix E**.

5.2.2 Areal Reduction Factors

The design rainfall intensities presented in the preceding section are only applicable for catchment areas of up to 1 km². Therefore, ARR2019 includes areal reduction factors that recognise that there is unlikely to be a uniformly high rainfall intensity across all sections of large catchments.

The primary input variable to calculate the areal reduction factors is the contributing catchment area. One of the main difficulties in applying the areal reduction factors for a flood study such as this is the fact that the contributing catchment area varies considerably across the study area. For example, the contributing catchment areas vary from less than 1 km² at the upstream end of each major subcatchment (and smaller tributaries) up to 5 km² at the downstream end of the Spring Creek catchment. Therefore, to fully apply the correct areal reduction factors, it would be necessary to calculate the catchment area draining to the outlet of each subcatchment, determine the reduction factor for each subcatchment then adjust the point rainfall intensities individually for each subcatchment. This would result in a significant increase in the number of design storms that need to be simulated with associated increases in simulation times and processing effort. Therefore, it was considered more appropriate to select a single representative contributing catchment area to develop a single set of areal reduction factors for application to each study area.

As a first step, the subcatchments where the contributing catchment area was less than versus greater than 1 km² (i.e., the area threshold where reduction factors begin to be applied) was investigated. The outcomes of this assessment are presented in **Plate 12** with yellow subcatchments having a contributing catchment area less than 1 km² and red subcatchments having a contributing catchment area greater than 1 km².

The information presented in **Plate 12** shows that most subcatchments in the study area have a contributing upstream catchment of less than 1 km² (635 out of the 673 subcatchments within the study area have a contributing catchment area of less than 1 km²). Therefore, application of no areal reductions would be appropriate for approximately 94% of the study area.

For the remaining 6% of the catchment, the total contributing catchment area generally did not exceed 4 km². Therefore, the areal reduction factor for these remaining subcatchments is unlikely to exceed 10% (i.e., only a small reduction in rainfall would be applied).

As the majority of subcatchments comprise a contributing catchment area of less than 1 km² and the remaining subcatchments would only require application of a small reduction factor, no areal rainfall reductions factors were applied to the point rainfall depths.

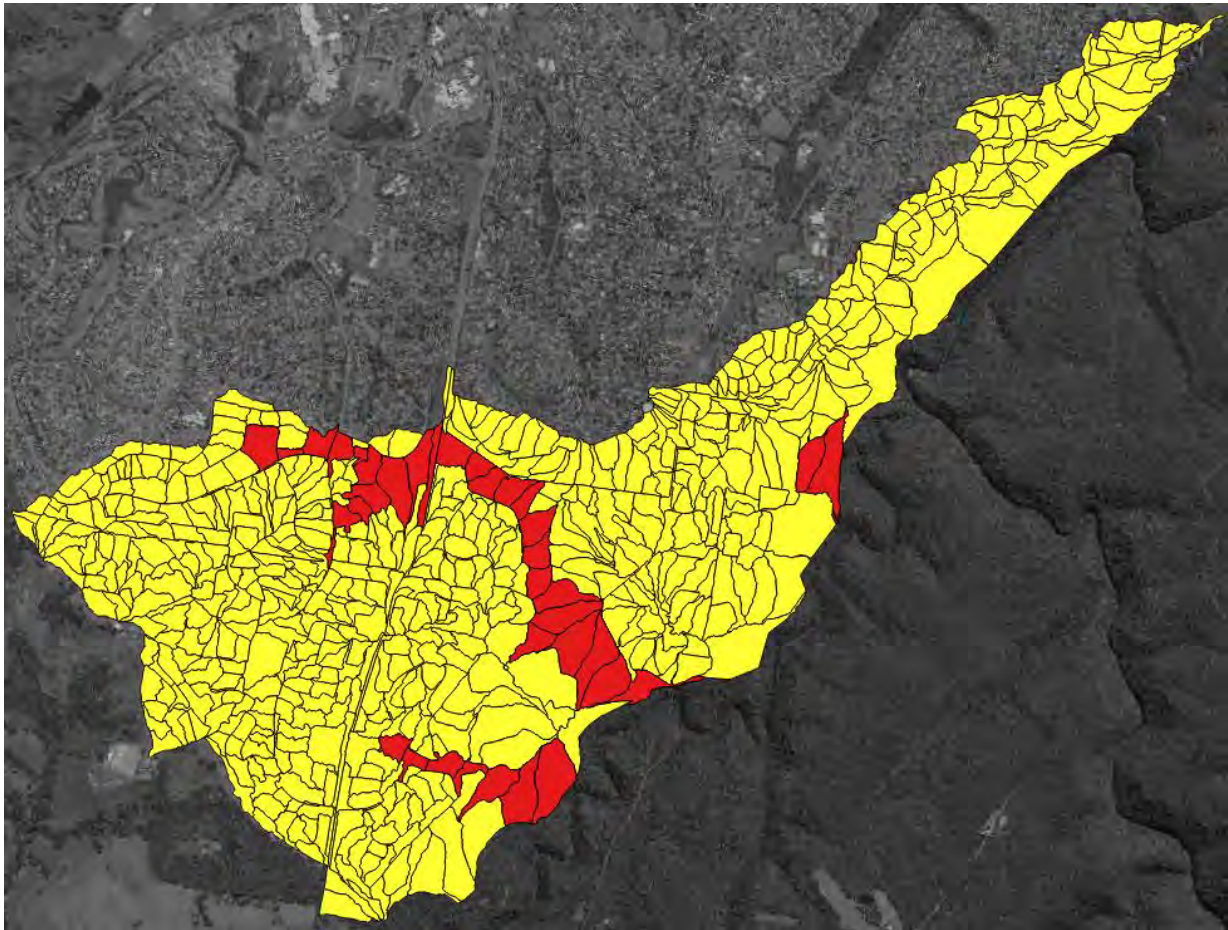


Plate 12 Subcatchments where the contributing catchment area is less than 1 km² (yellow) and greater than 1 km² (red) (aerial image courtesy of Google)

5.2.3 Rainfall Losses

As discussed, the XP-RAFTS model was developed to include the “initial-continuing loss” model to account for rainfall that is intercepted/infiltrated and does not contribute to runoff.

ARR2019 recommends a hierarchical approach for determining the most appropriate initial (i.e., burst) loss and continuing loss values to apply as part of design flood simulations. In instances where insufficient information is available to calibrate rainfall losses (such as this study), the ARR2019 jurisdictional advice for NSW recommends adoption of rainfall loss information from the ARR2019 data hub. Further information on the adopted burst losses and continuing loss rates adopted for the study are provided below.

Burst Losses

Probability neutral “burst” losses were downloaded from the ARR2019 data hub. For the Campbelltown Southern catchments study area, this resulted in burst losses that vary between 6.6 and 42.5 mm. However, it is noted that the burst losses provided on the Data Hub are intended for application to rural/undeveloped catchments. Therefore, Section 3.5.3.2.1 of Book 5 of ARR2019 suggests that for catchments with an urban component, the burst loss should be 60 to 80% of the rural burst loss to account for the reduced infiltration potential across catchments with an urban proportion. A 70% adjustment factor was adopted for this study.

The adopted burst losses are summarised in **Table 9**. **Table 9** shows that the burst losses vary between 4.6mm and 24.8mm. By way of comparison, the 1987 version of Australian Rainfall and Runoff recommended initial losses of between 10mm and 30mm. An initial loss of 15mm was adopted as part of the *Bow Bowing/Bunbury Curran Creek Flood Studies* discussed in Section 3.2.1.

Table 9 Adopted Burst Rainfall Losses for Pervious Surfaces

Duration	Burst Loss (mm)					
	50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	≥1% AEP
<1 hour	18.1	11.1	10.2	10.6	10.6	8.9
1 hour	18.1	11.1	10.2	10.6	10.6	8.9
1.50 hour	20.7	11.8	10.3	10.2	9.7	9.0
2 hours	22.8	12.5	10.5	9.8	8.9	6.6
3 hours	21.7	11.6	9.7	9.6	8.9	6.7
6 hours	20.4	12.6	10.9	9.7	7.6	4.6
12 hours	20.4	14.6	13.6	12.3	10.5	6.4
18 hours	24.2	18.1	16.9	14.8	13.7	8.3
24 hours	24.8	19.5	19.3	17.4	16.6	10.0

For impervious areas, Section 3.5.3.1.2 of Book 5 of ARR2019 recommends a storm initial loss of 1 mm. However, the storm loss of 1 mm needs to be adjusted to account for preburst rainfall. This yielded an impervious burst loss of 0 mm for all storm durations. This compares to a storm loss of 1 mm adopted as part of the *Bow Bowing/Bunbury Curran Creek Flood Studies*.

A burst/initial loss of 0 mm was adopted for all surfaces/catchment areas for the PMP simulations in line with recommendations in Chapter 4 of Book 8 of ARR2019.

Continuing Loss Rates

The ARR2019 jurisdictional advice for NSW recommends that the continuing loss rate documented on the Data Hub be reduced by 60% before application to pervious surfaces. The “raw” loss rate documented on the data hub is 2.4 mm/hr. Therefore, the adjusted loss rate is 0.96 mm/hr and was adopted for application to pervious surfaces. The *Bow Bowing/Bunbury Curran Creek Flood Studies* adopted a continuing loss rate of 2.5 mm/hr.

For impervious areas, Section 3.5.3.1.2 of Book 5 of ARR2019 recommends a continuing loss rate of 0 mm/hr. Therefore, the continuing loss rate of 0 mm/hr was adopted directly in the XP-RAFTS model. This is consistent with the loss rate adopted as part of the *Bow Bowing/Bunbury Curran Creek Flood Studies*.

5.2.4 Temporal Patterns

ARR2019 employs 10 different temporal patterns for each AEP/storm duration to define the time variation in rainfall during each storm. The use of a variety of different temporal

patterns is intended to reflect the natural variability of a typical rainfall event (i.e., no two storms will be the same).

The temporal patterns for the study area were downloaded from the ARR data hub and were used to simulate the temporal distribution of rainfall for each design storm. In accordance with ARR2019 for catchments with an area less than 75 km², the “point” temporal patterns rather than “areal” temporal patterns were selected to describe the temporal variation in rainfall.

ARR2019 groups the temporal patterns into “frequent”, “intermediate” and “rare” bins, which were applied to each design storm as follows:

- Frequent temporal patterns: 20% AEP
- Intermediate temporal patterns: 5% AEP
- Rare temporal patterns: 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP

For the PMP, a single temporal pattern was adopted for each PMP storm simulation in line with the approach recommended in the *‘Generalised Short Duration Method’* (GSDM) (Bureau of Meteorology, 2003).

5.2.5 Results

The XP-RAFTS model was used to simulate rainfall runoff processes for the complete suite of design storms. The design 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP storms were simulated in addition to the PMP.

As discussed, a suite of ten temporal patterns were used to represent the temporal variation in rainfall for each design flood frequency up to and including the 0.2% AEP event. The peak discharges from the full suite of temporal patterns for each design event were reviewed to determine the critical storm duration for each subcatchment. The critical storm duration was defined by calculating the average discharge for each storm duration for each subcatchment (based on all 10 temporal patterns). The storm duration that generated the highest average discharge was selected as the critical duration for that subcatchment. The resulting critical storm durations for each subcatchment are presented in **Appendix F**. The results of the hydrologic analysis indicate that the critical duration across the study area generally varies between 10 minutes and 6 hours with the 10 minute storm being most commonly critical.

Once the critical duration was determined, a representative temporal pattern was selected for that duration. The temporal pattern that generated the peak discharge immediately above the median discharge was selected as the most representative temporal pattern for each subcatchment. The adopted temporal pattern for each subcatchment along with the peak discharge generated by the representative temporal pattern is also provided in **Appendix F**.

The results of the hydrologic analysis also indicate many unique combinations of critical durations and temporal patterns across the study area. More specifically:

- 20% AEP: 43 unique critical storms

- 5% AEP: 41 unique critical storms
- 2% AEP: 47 unique critical storms
- 1% AEP: 42 unique critical storms
- 0.5% AEP: 40 unique critical storms
- 0.2% AEP: 46 unique critical storms.

5.3 Hydraulics

5.3.1 Boundary Conditions

Inflow Boundaries

As discussed in the previous section, an XP-RAFTS hydrologic model was used to simulate the transformation of rainfall into runoff and generate discharge hydrographs throughout the study area. The discharge hydrographs generated by the XP-RAFTS models were used to define inflow boundary conditions for the TUFLOW models.

However, as noted above, a large number of unique critical durations and temporal patterns were determined as part of the hydrologic analysis (i.e., more than 250 unique combinations of AEP, duration and temporal patterns). Although the XP-RAFTS model runs in a matter of seconds and can run a large number of storms in a relatively short amount of time, the hydraulic model takes several hours to run a single storm. Therefore, it was not considered feasible to run all unique combinations of storm durations and temporal patterns through the hydraulic model in a timely manner.

Therefore, the assessment of critical durations and temporal patterns was restricted to a selection of “focus” locations. A focus location was defined as a major watercourse or a location where preliminary design flood simulations showed a major flow path. A total of 26 focus locations were identified and are shown in **Plate 13**.

Once the assessment of critical durations and temporal patterns was reduced from every subcatchment (i.e., >600 locations) down to 26 focus locations, the number of unique storms was significantly reduced (less than 16 unique combination of storm duration and temporal pattern per design flood). However, this was still considered to be too many simulations to undertake efficiently (noting that the future floodplain risk management study will require simulation of each design flood multiple times for each of the potential flood risk mitigation measures).

Therefore, the XP-RAFTS results were further reviewed to determine if a reduced number of temporal patterns and durations could be applied without significantly impacting on the overall hydrologic outcomes. A total of 5 unique storms were targeted for each AEP/design flood.

The peak discharges generated by the most commonly “critical” temporal patterns and durations were compared against the peak discharges generated by the “correct” temporal patterns and durations for each subcatchment to determine the difference in peak discharge that would result from using a reduced set of temporal patterns.



Plate 13 “Focus” locations (yellow) selected for critical duration & temporal pattern analysis

The outcomes of this assessment are summarised in **Appendix F**. **Appendix F** provide the “actual” critical discharges (i.e., based on consideration of all durations and temporal patterns) for each subcatchment but also includes the peak discharges that would be generated based upon the reduced set of temporal patterns and storm durations. The temporal patterns and storm durations that were ultimately selected for each AEP are documented in **Appendix F** and are also summarised in **Table 10**.

Table 10 Adopted temporal patterns and storm durations for hydraulic analysis

Design Storm	Storm Durations and Temporal Pattern ID						
	10 mins	15 mins	20 mins	45 mins	60 mins	90 mins	120 mins
20% AEP	4388		4448 4450	4547			4643
5% AEP	4378	4415	4439		4565		4624
2% AEP	4354	4358	4371			4585	4499
1% AEP	4354		4429	4533	4558		4611
0.5% AEP	4354	4400	4371		4558		4611
0.2% AEP	4354	4396	4371	4533			4431

As shown in **Table 10**, the adopted storm durations were most commonly less than 60 minutes and these shorter storms were most commonly critical across the smaller contributing catchment areas (e.g., overland flow path areas). However, some longer storm durations were also included as they often contributed the most significant inundation in flood detention basins.

The peak discharges summarised in **Appendix F** show that the reduced set of storms produce peak discharges that, on average, fall within $+0.1 \text{ m}^3/\text{s}$ of the “adopted” peak discharge. The average percentage difference in peak discharge across all subcatchments and events was determined to vary from +3% during the 5% AEP flood down to +1% during the 1% AEP flood. Therefore, although adopting a reduced set of temporal patterns is providing slightly higher ARR2019 discharge estimates, the discharges are not significantly inflated. Therefore, it is considered that the reduced set of temporal patterns and durations is reasonable for application to the hydraulic model as part of the design floods analysis.

Downstream Boundary

Downstream boundary condition for the TUFLOW model was defined using a “normal depth” calculation. That is, the water level at the downstream model boundary was defined based on the stream geometry and slope as well as the total discharge at the downstream model boundary.

5.3.2 Blockage

Bridges and Culverts

As discussed in Section 4.3.4, a review of Campbelltown City Council blockage factors for hydraulic structures (i.e., bridges and culverts) was completed as part of the project. This review determined that the Council blockage factors are most commonly comparable or slightly higher than the corresponding blockage factors recommended in ARR2019. Therefore, the Council blockage factors were retained as part of the ‘base’ design simulations to ensure consistency with the flood studies completed across the BBBC Creek catchment.

The impact of no blockage as well as complete blockage of hydraulic structures was assessed as part of the model sensitivity analysis.

Stormwater System

A 50% blockage factor was also applied to all sag stormwater inlets and 20% blockage was applied to on-grade stormwater inlets in accordance with Council's ‘*Engineering Design for Development*’ (2014).

The impact of no blockage as well as complete blockage of stormwater pits was assessed as part of the model sensitivity analysis.

5.4 Results

5.4.1 Design Flood Envelope

As discussed, a range of design storm durations and temporal patterns were simulated for each design flood. Therefore, the results from each simulation for each design flood were combined to form a “design flood envelope” for each design flood. It is this “design flood

envelope” comprising the most critical depths, velocities and levels from a risk management perspective that forms the basis for the results documented in the following sections.

5.4.2 Peak Depths, Levels and Velocities

Results were extracted from the final design flood envelopes and were used to prepare a floodwater depth and velocity vectors maps for the 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP as well as the PMF. This information is provided in **Figures 9 to 15**.

Peak flood levels, depths and velocities were also extracted at key locations across the study area (refer to **Plate 14** for locations) and are provided in **Table 11**, **Table 12** and **Table 13** respectively. The key locations are very similar to the Focus Locations previously shown in **Plate 14**. However, the locations have been slightly modified so they correlate with locations of more significant water depths (rather than subcatchment outlets).



Plate 14 Locations where design flood results were extracted and tabulated

5.4.3 Inundated Properties and Buildings

The number of properties and buildings predicted to be subject to inundation during the 1% AEP flood and PMF were also determined. However, it was noted that many properties and buildings would be subject to very shallow depths of inundation and this inundation would not pose a significant flood risk. Therefore, a depth filter of 0.15 metres was applied to the raw modelling results to help distinguish between areas of negligible inundation and areas with a more significant flood exposure. The 0.15 metre depth threshold was adopted as it corresponds to the minimum finished floor height requirement documented in the National Construction Code (i.e., once water depths exceed 0.15 metres, buildings may be exposed to above floor flooding).

Table 11 Peak Design Water Levels at Key Locations

Location (refer Plate 14)		Peak Water Level (mAHD)						
		20%AEP	5%AEP	2%AEP	1%AEP	0.5%AEP	0.2%AEP	PMF
1	Haredale Park (US of Haredale St)	142.40	142.81	142.90	142.91	142.96	142.98	143.42
2	DS Haredale Rd (drainage depression)	141.14	141.21	141.29	141.30	141.34	141.36	141.82
3	Mandurama Reserve (US Crispsparkle Dr)	139.45	139.70	139.89	139.99	140.08	140.24	141.12
4	DS Crispsparkle Dr (Cleopatra Reserve 1)	134.53	134.60	134.61	134.63	134.64	134.65	135.04
5	Cleopatra Reserve 2	133.32	133.40	133.44	133.47	133.48	133.51	134.17
6	Cleopatra Reserve 3	131.38	131.57	131.64	131.64	131.66	131.69	132.36
7	Cleopatra Reserve 4	128.70	129.49	129.57	129.55	129.58	129.60	130.21
8	Thomas Acres Reserve	126.49	126.78	127.33	127.59	127.71	127.79	128.46
9	US Copperfield Dr	123.82	124.02	124.14	124.24	124.32	124.45	125.73
10	Rosemeadow Reserve 1 North	121.97	122.50	122.64	122.87	122.95	123.11	123.92
11	Rosemeadow Reserve 2	120.22	120.51	120.59	120.73	120.81	120.92	121.99
12	Rosemeadow Reserve 3	118.32	118.73	118.82	118.98	119.08	119.19	120.60
13	US Appin Rd	117.69	117.88	117.93	118.04	118.11	118.17	120.12
14	US St Helens Park Rd	116.85	117.15	117.17	117.23	117.25	117.27	118.50
15	Demetrius Reserve	139.68	139.93	140.30	140.52	140.62	140.69	141.39
16	Octavia Reserve	135.92	136.67	136.99	137.22	137.76	138.18	139.08
17	Canidius Reserve	134.93	135.43	135.51	135.87	135.95	136.04	136.85
18	Malvolla St at Desdemona St	147.77	147.96	148.00	148.02	148.04	148.07	148.36
19	Valentine Pl at Othello Ave	141.42	141.49	141.55	141.59	141.63	141.67	142.23
20	Haydon Park	138.09	138.22	138.32	138.39	138.43	138.46	138.78
21	US Anthony Drive	132.77	132.99	133.10	133.15	133.18	133.23	133.92
22	US Julius Rd	129.57	129.70	129.76	129.79	129.84	129.89	130.62
23	Thomas Rose Dr	126.95	127.22	127.37	127.45	127.55	127.63	128.55
24	Rosemeadow Reserve 1 South	122.58	122.76	122.84	122.93	123.00	123.14	123.94
25	Kellerman Dr at Heritage Heights Circuit	135.42	135.50	135.52	135.55	135.56	135.59	135.77
26	Ironside Ave	118.21	118.37	118.44	118.46	118.50	118.53	119.20
27	Fullerton Circuit	133.06	133.11	133.13	133.15	133.16	133.18	133.33
28	Parma Cres	127.96	128.11	128.18	128.22	128.28	128.29	129.14
29	Francesco Cres	132.82	132.94	133.01	133.06	133.09	133.11	133.69
30	Oswald Reserve	132.01	132.30	132.40	132.41	132.44	132.48	133.03
31	DS Oswald Reserve (US Appin Rd)	131.78	132.00	132.28	132.29	132.37	132.42	132.99
32	US Kellerman Dr	129.39	129.73	129.93	130.22	130.35	130.64	131.84
33	Brice Way	130.73	130.96	131.02	131.06	131.12	131.14	132.01
34	Kellerman Dr (Caspers Dome)	137.93	138.13	138.27	138.31	138.34	138.35	138.84
35	Karrabul Rd	134.72	134.77	134.78	134.80	134.81	134.82	134.96
36	Larapinta Cres	128.76	128.87	128.91	128.93	128.96	128.98	129.29
37	Larapinta Cres at Boongary St	131.09	131.16	131.20	131.22	131.24	131.26	131.47
38	Merino Cres	130.48	130.55	130.57	130.59	130.61	130.63	130.98
39	Douro Pl	133.08	133.12	133.13	133.14	133.15	133.17	133.32
40	Greengate Rd	134.78	134.82	134.83	134.84	134.85	134.86	135.02
41	Riverside Dr	135.08	135.16	135.18	135.20	135.21	135.24	135.42
42	Boonoke Pl	127.73	127.77	127.78	127.80	127.83	127.83	128.08
43	Riverside Dr at Davidson Pl	135.77	135.82	135.83	135.85	135.86	135.88	136.04
44	Peppin Cres	133.13	133.17	133.18	133.19	133.20	133.22	133.38
45	Georges River Rd	125.78	126.57	126.91	127.16	127.44	127.51	129.12

Table 12 Peak Design Water Depths at Key Locations

Location (refer Plate 14)		Peak Water Depth (m)						
		20%AEP	5%AEP	2%AEP	1%AEP	0.5%AEP	0.2%AEP	PMF
1	Haredale Park (US of Haredale St)	2.26	2.68	2.76	2.78	2.82	2.85	3.29
2	DS Haredale Rd (drainage depression)	1.34	1.42	1.49	1.51	1.55	1.57	2.03
3	Mandurama Reserve (US Crispsparkle Dr)	1.01	1.26	1.45	1.55	1.64	1.80	2.68
4	DS Crispsparkle Dr (Cleopatra Reserve 1)	1.82	1.89	1.90	1.92	1.93	1.94	2.33
5	Cleopatra Reserve 2	2.03	2.10	2.14	2.17	2.19	2.21	2.88
6	Cleopatra Reserve 3	1.70	1.90	1.97	1.97	1.99	2.02	2.68
7	Cleopatra Reserve 4	1.38	2.17	2.25	2.24	2.27	2.29	2.90
8	Thomas Acres Reserve	0.66	0.95	1.49	1.76	1.88	1.96	2.63
9	US Copperfield Dr	0.93	1.13	1.26	1.35	1.44	1.56	2.85
10	Rosemeadow Reserve 1 North	1.15	1.68	1.82	2.06	2.14	2.30	3.11
11	Rosemeadow Reserve 2	1.42	1.71	1.79	1.93	2.01	2.12	3.19
12	Rosemeadow Reserve 3	0.91	1.31	1.40	1.57	1.66	1.78	3.18
13	US Appin Rd	1.19	1.39	1.44	1.55	1.62	1.67	3.63
14	US St Helens Park Rd	2.38	2.67	2.70	2.75	2.78	2.80	4.03
15	Demetrius Reserve	0.58	0.83	1.19	1.42	1.51	1.59	2.29
16	Octavia Reserve	0.84	1.59	1.90	2.13	2.68	3.09	4.00
17	Canidius Reserve	0.77	1.28	1.35	1.72	1.79	1.88	2.70
18	Malvolla St at Desdemona St	0.22	0.40	0.45	0.47	0.49	0.52	0.81
19	Valentine Pl at Othello Ave	0.48	0.54	0.60	0.65	0.69	0.72	1.28
20	Haydon Park	1.49	1.62	1.72	1.79	1.82	1.85	2.18
21	US Anthony Drive	1.32	1.54	1.64	1.69	1.73	1.78	2.47
22	US Julius Rd	2.50	2.64	2.70	2.73	2.77	2.82	3.56
23	Thomas Rose Dr	0.33	0.61	0.76	0.84	0.94	1.02	1.94
24	Rosemeadow Reserve 1 South	1.44	1.62	1.70	1.79	1.86	2.00	2.80
25	Kellerman Dr at Heritage Heights Circuit	0.34	0.41	0.43	0.46	0.47	0.50	0.68
26	Ironside Ave	0.28	0.44	0.51	0.53	0.57	0.60	1.26
27	Fullerton Circuit	0.17	0.22	0.24	0.26	0.27	0.29	0.44
28	Parma Cres	0.22	0.36	0.44	0.48	0.53	0.55	1.40
29	Francesco Cres	0.60	0.73	0.80	0.85	0.88	0.90	1.48
30	Oswald Reserve	1.81	2.11	2.21	2.21	2.24	2.28	2.83
31	DS Oswald Reserve (US Appin Rd)	0.66	0.87	1.15	1.17	1.24	1.30	1.86
32	US Kellerman Dr	1.54	1.88	2.08	2.36	2.50	2.79	3.99
33	Brice Way	0.27	0.49	0.55	0.59	0.65	0.67	1.54
34	Kellerman Dr (Caspers Dome)	0.10	0.30	0.43	0.48	0.51	0.52	1.01
35	Karrabul Rd	0.29	0.33	0.35	0.36	0.37	0.39	0.53
36	Larapinta Cres	0.32	0.43	0.47	0.49	0.52	0.54	0.85
37	Larapinta Cres at Boongary St	0.20	0.27	0.31	0.32	0.35	0.36	0.58
38	Merino Cres	0.45	0.52	0.54	0.56	0.58	0.60	0.95
39	Douro Pl	0.26	0.31	0.31	0.33	0.33	0.35	0.50
40	Greengate Rd	0.19	0.23	0.24	0.25	0.26	0.28	0.43
41	Riverside Dr	0.29	0.36	0.38	0.40	0.42	0.44	0.62
42	Boonoke Pl	0.14	0.18	0.19	0.21	0.23	0.24	0.48
43	Riverside Dr at Davidson Pl	0.25	0.30	0.32	0.33	0.35	0.37	0.52
44	Peppin Cres	0.32	0.35	0.36	0.37	0.38	0.40	0.56
45	Georges River Rd	0.54	1.32	1.67	1.92	2.20	2.26	3.87

Table 13 Peak Design Flow Velocities at Key Locations

Location (refer Plate 14)		Peak Velocity (m/s)						
		20%AEP	5%AEP	2%AEP	1%AEP	0.5%AEP	0.2%AEP	PMF
1	Haredale Park (US of Haredale St)	0.25	0.28	0.38	0.47	0.50	0.56	1.14
2	DS Haredale Rd (drainage depression)	0.28	0.38	0.52	0.57	0.60	0.65	1.18
3	Mandurama Reserve (US Crispsparkle Dr)	0.04	0.04	0.04	0.05	0.05	0.07	0.32
4	DS Crispsparkle Dr (Cleopatra Reserve 1)	0.22	0.30	0.55	0.66	0.72	0.85	1.13
5	Cleopatra Reserve 2	0.31	0.33	0.31	0.32	0.37	0.52	0.77
6	Cleopatra Reserve 3	0.23	0.33	0.49	0.55	0.58	0.65	1.18
7	Cleopatra Reserve 4	0.57	0.71	0.61	0.73	0.75	0.71	0.99
8	Thomas Acres Reserve	0.50	0.55	0.54	0.61	0.62	0.80	0.99
9	US Copperfield Dr	0.76	0.76	0.78	0.76	0.77	0.76	1.19
10	Rosemeadow Reserve 1 North	0.65	0.66	0.65	0.65	0.65	0.63	0.48
11	Rosemeadow Reserve 2	0.50	0.51	0.54	0.56	0.55	0.59	1.83
12	Rosemeadow Reserve 3	2.14	2.15	2.15	2.14	2.13	2.12	2.01
13	US Appin Rd	1.29	1.39	1.47	1.54	1.58	1.65	2.22
14	US St Helens Park Rd	1.67	1.74	1.61	1.63	1.59	1.63	1.82
15	Demetrius Reserve	0.85	0.90	0.87	0.89	0.89	0.88	0.77
16	Octavia Reserve	0.50	0.44	0.82	0.85	0.86	0.89	1.19
17	Canidius Reserve	0.56	0.72	0.71	0.73	0.74	0.73	0.65
18	Malvolla St at Desdemona St	0.24	0.31	0.32	0.36	0.40	0.64	1.81
19	Valentine Pl at Othello Ave	0.29	0.37	0.47	0.56	0.61	0.71	2.47
20	Haydon Park	0.87	0.40	0.77	1.01	1.03	0.55	0.97
21	US Anthony Drive	1.01	1.01	1.01	1.01	1.02	1.03	1.51
22	US Julius Rd	1.18	1.19	1.24	1.27	1.28	1.28	1.10
23	Thomas Rose Dr	0.96	0.90	0.92	0.90	0.93	0.88	1.50
24	Rosemeadow Reserve 1 South	1.41	1.41	1.41	1.41	1.41	1.42	1.32
25	Kellerman Dr at Heritage Heights Circuit	0.52	0.71	0.78	0.88	0.95	1.09	2.81
26	Ironside Ave	0.72	0.82	0.87	0.85	0.86	0.88	1.26
27	Fullerton Circuit	0.20	0.31	0.47	0.53	0.57	0.62	0.96
28	Parma Cres	0.55	0.66	0.71	0.78	0.79	0.83	1.59
29	Francesco Cres	0.31	0.40	0.49	0.52	0.54	0.56	0.61
30	Oswald Reserve	0.73	0.80	0.86	0.87	0.90	0.93	1.20
31	DS Oswald Reserve (US Appin Rd)	0.17	0.22	0.33	0.35	0.39	0.44	0.52
32	US Kellerman Dr	0.40	0.41	0.44	0.45	0.46	0.48	0.78
33	Brice Way	0.69	0.76	0.81	0.81	0.82	0.86	0.94
34	Kellerman Dr (Caspers Dome)	0.34	0.40	0.52	0.57	0.62	0.73	1.91
35	Karrabul Rd	0.29	0.37	0.44	0.48	0.50	0.55	0.97
36	Larapinta Cres	0.53	0.58	0.75	0.77	0.79	0.81	1.19
37	Larapinta Cres at Boongary St	0.21	0.30	0.36	0.46	0.47	0.48	0.99
38	Merino Cres	0.26	0.27	0.44	0.47	0.47	0.50	0.68
39	Douro Pl	0.64	0.77	0.84	0.83	0.83	0.74	1.15
40	Greengate Rd	0.23	0.37	0.40	0.45	0.46	0.47	0.83
41	Riverside Dr	0.73	0.75	0.78	0.78	0.79	0.76	1.13
42	Boonoke Pl	0.40	0.47	0.50	0.53	0.56	0.58	0.94
43	Riverside Dr at Davidson Pl	0.37	0.49	0.53	0.54	0.55	0.56	0.80
44	Peppin Cres	0.24	0.28	0.31	0.33	0.34	0.34	0.60
45	Georges River Rd	1.00	0.90	0.92	0.98	0.98	1.10	1.33

An inundated property was identified when the filtered flood outputs partly extended across a lot/property boundary. An inundated building was identified when the filtered flood outputs “touched” the edge of a building and serves as a proxy for identifying properties potentially at risk of above floor flooding. The resulting inundated property and building locations are presented in **Figure 16** and **17**.

The total number of properties and buildings impacted by inundation during each design flood is also summarised below. By way of comparison, there are a total of 6,965 properties and 10,110 buildings within the study area (of which approximately 6,682 are habitable with the remaining buildings comprising garages, sheds etc).

- 1% AEP flood:
 - Inundated properties: 623
 - Inundated buildings: 106 habitable + 37 non-habitable
- PMF:
 - Inundated properties: 2,132
 - Inundated buildings: 949 habitable + 392 non-habitable

The information presented above indicates that 2% of habitable buildings located within the study area may be subject to at least partial inundation during the 1% AEP flood. This is predicted to increase to 17% during the PMF.

Impacts to Critical and Vulnerable Facilities

There are some facilities located within the study area that are particularly susceptible to the impacts of flooding (e.g., childcare centres) and/or can play an important role in emergency response during floods (e.g., hospitals). Therefore, a further detailed review of the inundated properties and buildings was completed to understand whether critical or vulnerable facilities may be impacted by flooding. The outcomes of this assessment are presented in **Table 14**.

Table 14 shows that although many vulnerable facilities would be at least partly exposed to inundation during the PMF, most facilities contain buildings located outside of the PMF extent. Therefore, it is likely that occupants could shelter in place for the typically short duration of inundation. However, two vulnerable facilities have buildings that may be exposed to inundation during a 1% AEP flood. These are:

- Ambarvale High School
- Our Lady Help of Christians School

Both of these facilities include areas of higher ground outside of the PMF extent. Therefore, early evacuation to higher ground/buildings is recommended for these facilities.

Table 14 also shows that the Rosemeadow Fire Station is potentially at risk of inundation during the 1% AEP flood and PMF. This would limit the ability for this facility to service the community during times of flood.

Table 14 Flooding Impacts on Critical and Vulnerable Facilities

Name	Address	1% AEP		PMF	
		Inundated Property	Inundated Building	Inundated Property	Inundated Building
Critical Facilities					
Fire and Rescue NSW Rosemeadow Fire Station	1 Thomas Rose Drive Rosemeadow 2560	X	X	X	X
Lynwood Park Rural Fire Brigade	27 Rangers Road St Helens Park 2560			X	
Sewer Pumping Station	Oswald Crescent Rosemeadow 2560	X		X	X
Vulnerable Facilities					
Kindergarten Union (KU) Macarthur Briar Cottage	14 Waterhouse Place AIRDS 2560				
Tharawal Child Care Centre	187 Riverside Drive AIRDS 2560				
Little Learning School - Ambarvale	122 Dickens Road AMBARVALE 2560	X		X	
Rosemeadow Early Learning Centre	274 Copperfield Drive ROSEMEADOW 2560			X	
Busy Kidz Day Care Centre	337 Copperfield Drive ROSEMEADOW 2560				
Willow Tree Kindergarten	61 Anthony Drive ROSEMEADOW 2560			X	
Little Peoples Early Learning Centre	5-7 Crommelin Crescent} ST HELENS PARK 2560			X	
Community Kids St Helens Early Education Centre	23-25 Boongary Street ST HELENS PARK 2560	X		X	
St Helens Park World of Learning	109 Kellerman Drive ST HELENS PARK 2560				
St Helens Park Long Day Care Centre	6 MacKinn Street ST HELENS PARK 2560			X	
Mary Brooksbank School	30 Cleopatra Drive ROSEMEADOW 2560	X		X	
Our Lady Help of Christians School	80 Demetrius Road ROSEMEADOW 2560	X	X	X	X
Rosemeadow Public School	64 Anthony Drive ROSEMEADOW 2560	X		X	
St Helens Park Public School	42 Kellerman Drive ST HELENS PARK 2560	X		X	
Woodland Road Public School	20 Woodland Roa ST HELENS PARK 2560	X		X	
John Therry Catholic High School	80 Demetrius Road ROSEMEADOW 2560	X		X	X
Ambarvale High School	15 Thomas Rose Drive ROSEMEADOW 2560	X	X	X	X

5.4.4 Performance of Detention Basins

A significant number of flood detention basins are located within the Campbelltown Southern Catchment study area. This includes formal detention basins (e.g., Rosemeadow Reserve, Oswald Reserve) as well as smaller informal detention areas/water features (e.g., Mandurama Reserve).

The performance of each basin was assessed by comparing the peak design water levels within each basin relative to the basin spillway/embankment elevation. This determines in what design event each basin is predicted to overtop and, therefore, when the effectiveness of the basin reduces. The outcomes of this assessment are summarised in **Table 15**. Blue highlighted cells in **Table 15** indicate that the peak water level is predicted to be higher than the embankment/spillway level and, therefore, the basin is predicted to overtop in the design flood.

Table 15 Peak Design Water Levels in Flood Detention Basins

Location (refer Plate 14)		Peak Flood Level (mAHD)							Spillway Elevation (mAHD)
		20%AEP	5%AEP	2%AEP	1%AEP	0.5%AEP	0.2%AEP	PMF	
1	Haredale Park (US of Haredale St)	142.40	142.81	142.90	142.91	142.96	142.98	143.42	142.60
2	DS Haredale Rd (drainage depression)	141.14	141.21	141.29	141.30	141.34	141.36	141.82	140.88
3	Mandurama Reserve (US Crispsparkle Dr)	139.45	139.70	139.89	139.99	140.08	140.24	141.12	140.57
4	DS Crispsparkle Dr (Cleopatra Reserve 1)	134.53	134.60	134.61	134.63	134.64	134.65	135.04	134.40
5	Cleopatra Reserve 2	133.32	133.40	133.44	133.47	133.48	133.51	134.17	133.16
6	Cleopatra Reserve 3	131.38	131.57	131.64	131.64	131.66	131.69	132.36	131.33
7	Cleopatra Reserve 4	128.70	129.49	129.57	129.55	129.58	129.60	130.21	129.35
8	Thomas Acres Reserve	126.49	126.78	127.33	127.59	127.71	127.79	128.46	127.60
10	Rosemeadow Reserve 1 North	121.97	122.50	122.64	122.87	122.95	123.11	123.92	123.06
11	Rosemeadow Reserve 2	120.22	120.51	120.59	120.73	120.81	120.92	121.99	121.08
12	Rosemeadow Reserve 3	118.32	118.73	118.82	118.98	119.08	119.19	120.60	119.46
15	Demetrius Reserve	139.68	139.93	140.30	140.52	140.62	140.69	141.39	140.45
16	Octavia Reserve	135.92	136.67	136.99	137.22	137.76	138.18	139.08	138.04
17	Canidius Reserve	134.93	135.43	135.51	135.87	135.95	136.04	136.85	135.86
20	Haydon Park	138.09	138.22	138.32	138.39	138.43	138.46	138.78	137.85
22	US Julius Rd	129.57	129.70	129.76	129.79	129.84	129.89	130.62	129.37
24	Rosemeadow Reserve 1 South	122.58	122.76	122.84	122.93	123.00	123.14	123.94	123.06
30	Oswald Reserve	132.01	132.30	132.40	132.41	132.44	132.48	133.03	132.22
31	DS Oswald Reserve (US Appin Rd)	131.78	132.00	132.28	132.29	132.37	132.42	132.99	131.93
32	US Kellerman Dr	129.39	129.73	129.93	130.22	130.35	130.64	131.84	130.50
45	Georges River Rd	125.78	126.57	126.91	127.16	127.44	127.51	129.12	128.72

The information in **Table 15** shows that the performance of the various detention areas varies considerably across the study area with some detention areas having insufficient

capacity to cater for the 20% AEP flood while others can handle events up to and including the 0.2% AEP flood.

5.4.5 Comparison with ARR1987

As discussed in Section 4.4, validation of the hydrologic and hydraulic models was completed to ensure the models were generating reliable estimates of flood behaviour. Further validation of the results documented in this chapter were complete by comparing the ARR2019 1% AEP flood levels with 100year ARI flood levels produced using the 1987 version of Australian Rainfall and Runoff.

The comparison was completed at the same 45 key location shown in **Plate 14** and is presented in **Table 16**. The comparison shows that the ARR2019 1% AEP flood levels compare favourably to the ARR1987 water levels at all locations. The average difference in levels is 0.01 metres with all but two locations agreeing to better than 0.1 metres. The locations where difference exceed 0.1 metres are detention areas where peak flood levels are more heavily influenced by volume rather than peak discharge (the ARR1987 assessment included one longer duration event which is producing greater runoff volumes relative to ARR2019. Nevertheless, this comparison indicates that the 1% AEP flood levels produced as part of the reasonable and are providing a realistic estimate of design flood behaviour.

5.5 Flood Hazard

Flood hazard defines the potential impact that flooding will have on vehicles, people and property across different sections of the floodplain. More specifically, it describes the potential for floodwaters to cause damage to property or loss of life/injury (Australian Government, 2014).

For this study, the variation in flood hazard across the study was defined using flood hazard vulnerability curves presented in Section 7.2.7 of Chapter 7 of Book 6 of 'Australian Rainfall & Runoff' (Ball et al, 2019). The hazard curves are reproduced in **Plate 15** and are also described in **Table 17**.

As shown in **Plate 15**, the hazard curves assess the potential vulnerability of people, cars and structures based upon the depth and velocity of floodwaters at a particular location. Therefore, peak depth, velocity and velocity-depth product outputs generated by the TUFLOW model were used to map the variation in flood hazard across the catchment based on the hazard criteria shown in **Plate 15** for each design flood. The resulting hazard category maps are shown in **Figures 18 to 24**.

The hazard maps indicate that during the 1% AEP flood, the flood hazard across most urban areas is predicted to remain at H2 or below. However, localised areas of some roads and detention basins are predicted to reach H5. In addition, some defined watercourses are predicted to experience up to H6 hazard.

Table 16 Comparison between ARR2019 and ARR1987 1% AEP Water Levels

	Location (refer Plate 14)	Peak Water Level (mAHD)		Difference (m)
		ARR1987	ARR2019	
1	Haredale Park (US of Haredale St)	142.90	142.91	0.01
2	DS Haredale Rd (drainage depression)	141.29	141.30	0.01
3	Mandurama Reserve (US Crispsparkle Dr)	140.39	139.99	-0.40
4	DS Crispsparkle Dr (Cleopatra Reserve 1)	134.62	134.63	0.01
5	Cleopatra Reserve 2	133.45	133.47	0.02
6	Cleopatra Reserve 3	131.63	131.64	0.01
7	Cleopatra Reserve 4	129.55	129.55	0.00
8	Thomas Acres Reserve	127.68	127.59	-0.09
9	US Copperfield Dr	124.22	124.24	0.02
10	Rosemeadow Reserve 1 North	122.82	122.87	0.05
11	Rosemeadow Reserve 2	120.77	120.73	-0.03
12	Rosemeadow Reserve 3	119.03	118.98	-0.05
13	US Appin Rd	118.07	118.04	-0.03
14	US St Helens Park Rd	117.24	117.23	-0.02
15	Demetrius Reserve	140.50	140.52	0.02
16	Octavia Reserve	137.24	137.22	-0.03
17	Canidius Reserve	135.88	135.87	-0.01
18	Malvolla St at Desdemona St	148.02	148.02	0.00
19	Valentine Pl at Othello Ave	141.58	141.59	0.01
20	Haydon Park	138.36	138.39	0.03
21	US Anthony Drive	133.11	133.15	0.03
22	US Julius Rd	129.77	129.79	0.02
23	Thomas Rose Dr	127.67	127.45	-0.22
24	Rosemeadow Reserve 1 South	122.90	122.93	0.03
25	Kellerman Dr at Heritage Heights Circuit	135.58	135.55	-0.04
26	Ironside Ave	118.47	118.46	-0.01
27	Fullerton Circuit	133.13	133.15	0.02
28	Parma Cres	128.24	128.22	-0.02
29	Francesco Cres	133.04	133.06	0.02
30	Oswald Reserve	132.40	132.41	0.01
31	DS Oswald Reserve (US Appin Rd)	132.29	132.29	0.00
32	US Kellerman Dr	130.13	130.22	0.09
33	Brice Way	131.07	131.06	-0.01
34	Kellerman Dr (Caspers Dome)	138.30	138.31	0.01
35	Karrabul Rd	134.79	134.80	0.01
36	Larapinta Cres	128.91	128.93	0.02
37	Larapinta Cres at Boongary St	131.21	131.22	0.01
38	Merino Cres	130.59	130.59	0.00
39	Douro Pl	133.14	133.14	0.00
40	Greengate Rd	134.85	134.84	-0.01
41	Riverside Dr	135.22	135.20	-0.02
42	Boonoke Pl	127.81	127.80	-0.01
43	Riverside Dr at Davidson Pl	135.85	135.85	0.00
44	Peppin Cres	133.18	133.19	0.01
45	Georges River Rd	127.05	127.16	0.11

Table 17 Description of Adopted Flood Hazard Categories (Geoscience Australia, 2016)

Hazard Category	Description
H1	Relatively benign flood conditions. Generally safe for vehicles, people and buildings.
H2	Unsafe for small vehicles
H3	Unsafe for vehicles, children and the elderly
H4	Unsafe for vehicles and people of all ages & levels of mobility
H5	Unsafe for vehicles and people. All building types vulnerable to structural damage. Some less robust building types vulnerable to failure
H6	Unsafe for vehicles and people. All building types considered vulnerable to failure.

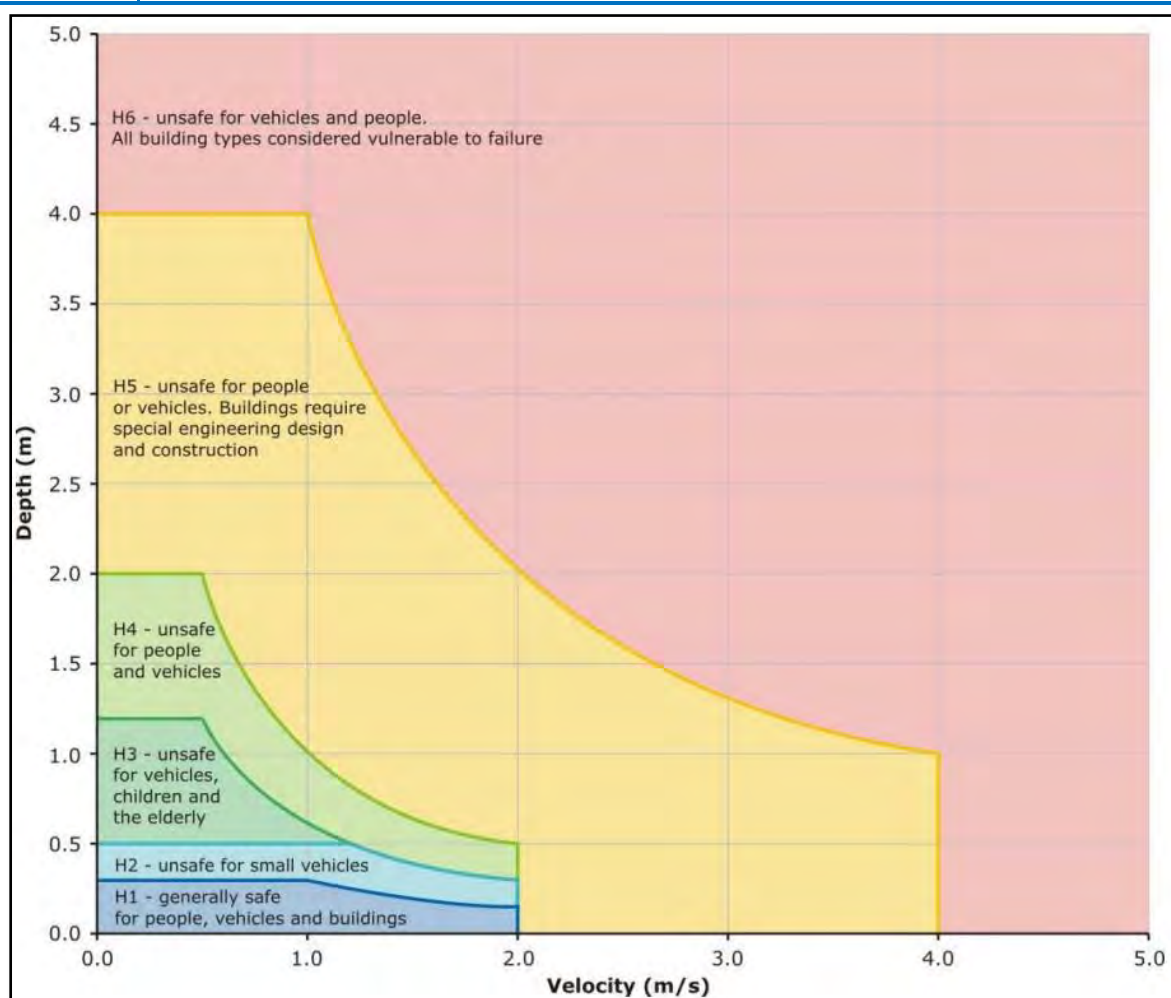


Plate 15 Flood hazard vulnerability curves (Ball et al, 2019)

During the PMF, many roads and urban overland flow paths would be exposed to a hazard of H4 or above. This indicates that cars and people would be exposed to a significant flood risk. The flood hazard across part sections of detention basins would also increase to H5 and H6 indicating highly hazardous/dangerous conditions.

It should be noted that flooding across most of the Campbelltown Southern Catchments study area is “flashy”/short duration flooding. As a result, the H5 and H6 hazard conditions are not predicted to last for extended periods of time. In the case of H6 hazard along

roads/urban areas, the high hazard conditions are predicted to subside in less than 30 minutes at most locations.

5.6 Flood Emergency Response Classifications

In an effort to understand the potential emergency response requirements across different sections of the study area, flood emergency response precinct (ERP) classifications were prepared in accordance with the flow chart shown in **Plate 16** (AEMI, 2014). The ERP classifications can be used to provide an indication of areas which may be inundated or isolated during floods. This information, in turn, can be used to quantify the type of emergency response that may be required across different sections of the study area during future floods. This information can be useful in emergency response planning.

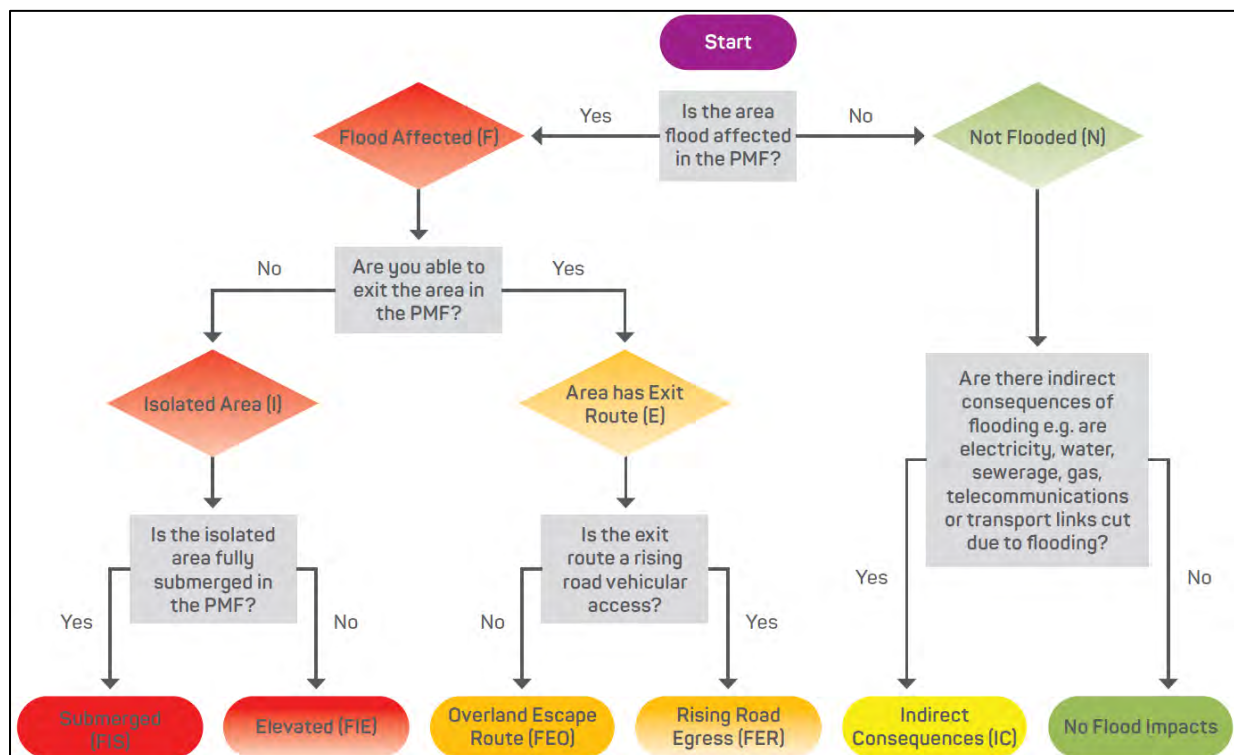


Plate 16 Flow Chart for Determining Flood Emergency Response Classifications (AEMI, 2014).

NOTE: FIS – Flooded, Isolated and Fully Submerged in Design Flood

FIE – Flooded, Isolated with an Area Elevated Above PMF

FEO – Flooded, Exit Route via Overland Escape (vehicular access cut but evacuation on foot may be possible)

FER – Flooded, Exit Route via Rising Road (evacuation routes grade up and away from floodwaters)

IC – Not Flooded, Indirect Consequences (e.g., access cut)

Each lot within the study area was classified based upon the ERP flow chart for the 1% AEP flood and PMF. This was completed using the TUFLOW model results, digital elevation model and a road network GIS layer in conjunction with proprietary software that considered the following factors:

- Whether evacuation routes get “cut off” by the depth of inundation (a 0.2 m depth threshold was used to define a “cut” road).
- Whether evacuation routes continuously rise out of the floodplain. This criterion is applied to the nearest cross street or road, assuming it is located outside of the PMF extent (i.e., floodplain).

- Whether properties become flooded. A property is considered “flooded” if more than 5% of the property is inundated by floodwaters. When a property is inundated by less than 5% of the total property area, it was considered to be “elevated”.
- Indirect consequences are identified when the property is located completely outside of the flood extent. However, it is impacted by other external factors, such as roadways being cut by water which would prevent access.

The resulting ERP classifications for the 1% AEP flood and PMF are provided in **Figures 25 and 26**. The emergency response classifications indicate that the most common classifications during the 1% AEP are:

- Indirect consequences which indicate properties are not flooded but access to or from the properties is cut
- Rising road areas: this classification indicates that evacuation routes grade up and out of the floodplain

During the PMF, much more of the study area fall under the ‘flooded, isolated elevated’ and ‘flooded, isolated submerged’ classification. These classifications indicate that evacuation is lost early in the flood and each lot is eventually inundated. This includes the following properties:

- Airds:
 - o 40 Greengate Road
 - o 38 Buffalo Way
- St Helens Park:
 - o 80-82 Potoroo Ave
 - o 2-4 Tungoo Place
 - o 5-9 Boongary Steet
 - o 3-7 Windeyer Place
 - o 13-30 Betong Place
 - o 28-30 & 43 Karrabul Road
 - o 9 & 33-35 Cuscus Place
 - o 8-36 Parma Crescent
 - o 22-33 Robson Crescent
 - o 1-5 Ironside Ave
 - o 33, 45-44, St Helens Park Drive
 - o 2-8 Waterworth Place & 36-40 Heritage Heights Circuit
 - o 9-13 Fullerton Circuit
 - o 67-83 Kellerman Drive
 - o 16-22 Carandini Street
 - o 7-20 Lavender Circuit
 - o 2-20 Barnard Place
 - o 3-5 Carbasse Crescent & 3-9 Withnell Crescent
 - o 6-8 Meredith Crescent

- o 16-18 Davy Place
- Rosemeadow:
 - o 1-3 Thomas Rose Drive (includes Rosemeadow Fire Station)
 - o 75 & 110-114 Donalbain Circuit
 - o 54 Julius Road
 - o 23-35 Balthasar Close
 - o 4-8 Sampson Place
 - o 34-40 + 63-65 Othello Avenue, 24-26 Glendower Street & 3-9 Valentine Place
 - o 61-65 Hamlet Crescent
 - o 31-35 Oswald Crescent
 - o 13-34 Pyramus Circuit, 78-82 Archibald Crescent, 300-315 Copperfield Drive, 5-22 Bernardo Street, 28-39 Francisco Crescent & 1-22 Fortinbras Close

Consequently, a PMF would isolate and inundate many properties and would present a significant emergency response requirement if evacuation is not completed early.

5.6.1 Transportation Impacts

A range of other datasets were also generated as part of the emergency response classification process to assist Council and the SES. This includes roadway overtopping locations which are also included on **Figures 25** and **26**. The labels attached to each road overtopping point show the maximum water depth during the design flood.

In addition, water depth hydrographs were extracted at major roadway overtopping locations. The depth hydrographs provide information on the available time before inundation of each roadway is expected along with the duration of inundation. In this regard, hydrographs are provided for the storm duration that results in the shortest warning time and the longest duration of inundation for the 5% AEP, 1% AEP and PMF events (i.e., the storm duration that produced the highest depth is not necessarily included). The location where hydrographs were extracted is shown in **Plate 17** and the hydrographs for each location are provided in **Appendix I**.

The hydrographs show that flooding on many roads will commence in as little as 10 minutes. Floodwaters are typically quick to recede, with most roads fully draining within 1 hour.

Copperfield Drive, near Fitzgibbon Lane (Location 12) is predicted to be the most significantly impacted roadway. At this location, inundation is predicted to commence after just 5 minutes of rainfall during shorter duration rainfall bursts. Inundation is predicted to remain for at least 60 minutes during longer duration storms and for more than 2 hours during a PMF.

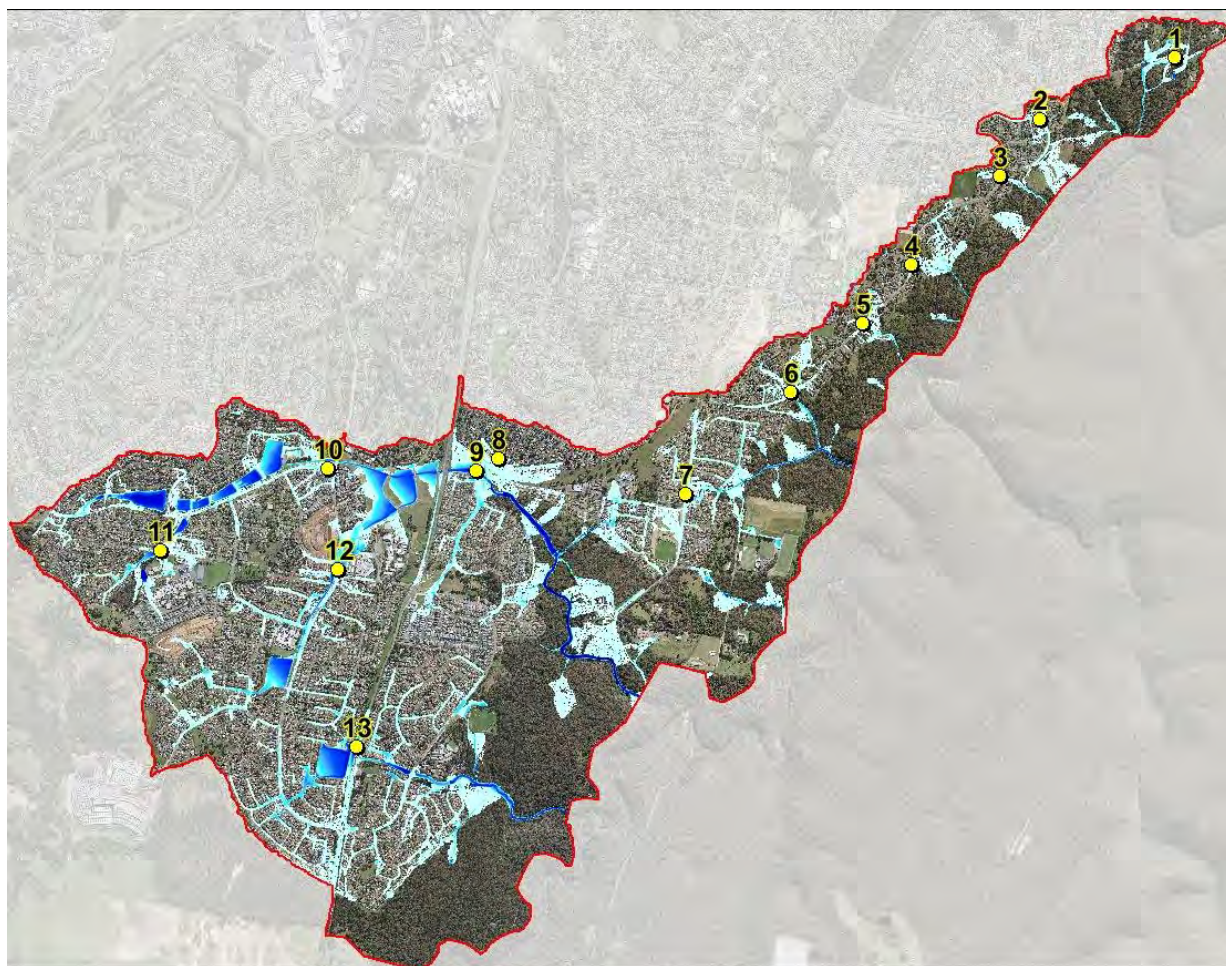


Plate 17 Roadway overtopping locations where water depth hydrographs were extracted.

5.7 Hydraulic Categories

The NSW Government's *'Floodplain Development Manual'* (NSW Government, 2005) also characterises flood prone areas according to the hydraulic (i.e., flood function) categories presented in **Table 18**. The hydraulic categories provide an indication of the potential for development across different sections of the floodplain to impact on existing flood behaviour and highlights areas that should be retained for the conveyance of floodwaters.

5.7.1 Adopted Hydraulic Categories

Unlike hazard categories, the *'Floodplain Development Manual'* (NSW Government, 2005) does not provide explicit quantitative criteria for defining hydraulic categories. This is because the extent of floodway, flood storage and flood fringe areas is typically specific to a particular catchment.

As discussed in Section 3.2.4, Campbelltown City Council developed criteria for defining the extent of floodway, flood storage and flood fringe areas based on the depth and velocity of floodwater as well as the land use at a particular location (Catchment Simulation Solutions, 2011a). These criteria were considered appropriate for application across the current study area due to the uniformity of development type, stormwater design standards and topography relative to the Bow Bowling / Bunbury Curran Creek catchment. The criteria used to define each hydraulic category is summarised in **Table 18**. Graphical representations of the criteria listed in **Table 18** are also provided in **Plate 18** and **Plate 19**.

Table 18 Qualitative and Quantitative Criteria for Hydraulic Categories

Hydraulic Category	Floodplain Development Manual Definition	Adopted Criteria*
Floodway	- those areas where a significant volume of water flows during floods - often aligned with obvious natural channels and drainage depressions - they are areas that, even if only partially blocked, would have a significant impact on upstream water levels and/or would divert water from existing flow paths resulting in the development of new flow paths. - they are often, but not necessarily, areas with deeper flow or areas where higher velocities occur.	If not <u>Flood Fringe</u> or <u>Flood Storage</u> .
Flood Storage	- those parts of the floodplain that are important for the temporary storage of floodwaters during the passage of a flood - if the capacity of a flood storage area is substantially reduced by, for example, the construction of levees or by landfill, flood levels in nearby areas may rise and the peak discharge downstream may be increased. - substantial reduction of the capacity of a flood storage area can also cause a significant redistribution of flood flows.	If not <u>Flood Fringe</u> and: <u>Drainage Areas:</u> $D \leq 2 \text{ m}$ AND $V \leq (-0.3D + 0.8)$ - OR $D \geq 2 \text{ m}$ AND $V \leq 0.2 \text{ m/s}$ <u>Urban Areas:</u> $V \leq 0.2 \text{ m/s}$
Flood Fringe	- the remaining area of land affected by flooding, after floodway and flood storage areas have been defined. - development (e.g., filling) in flood fringe areas would not have any significant effect on the pattern of flood flows and/or flood levels.	<u>Drainage Areas:</u> $V \leq 2 \text{ m/s}$ AND $D \leq (-40D + 6)$ <u>Urban Areas:</u> $V \leq 2 \text{ m/s}$ AND $D \leq (-40D + 6)$

NOTES: V = Velocity, D = Depth

Hydraulic categories were only applied to areas subject to inundation (i.e., $D > 0\text{m}$)

**The adopted criteria were developed specifically for the Bow Bowling / Bunbury Curran catchment only and may not be appropriate for any other localities.*

The velocity and depth results produced by the TUFLOW model for each design flood were combined with the criteria detailed in **Table 18** to produce hydraulic category maps. The resulting maps are shown in **Figures 27 to 33**.

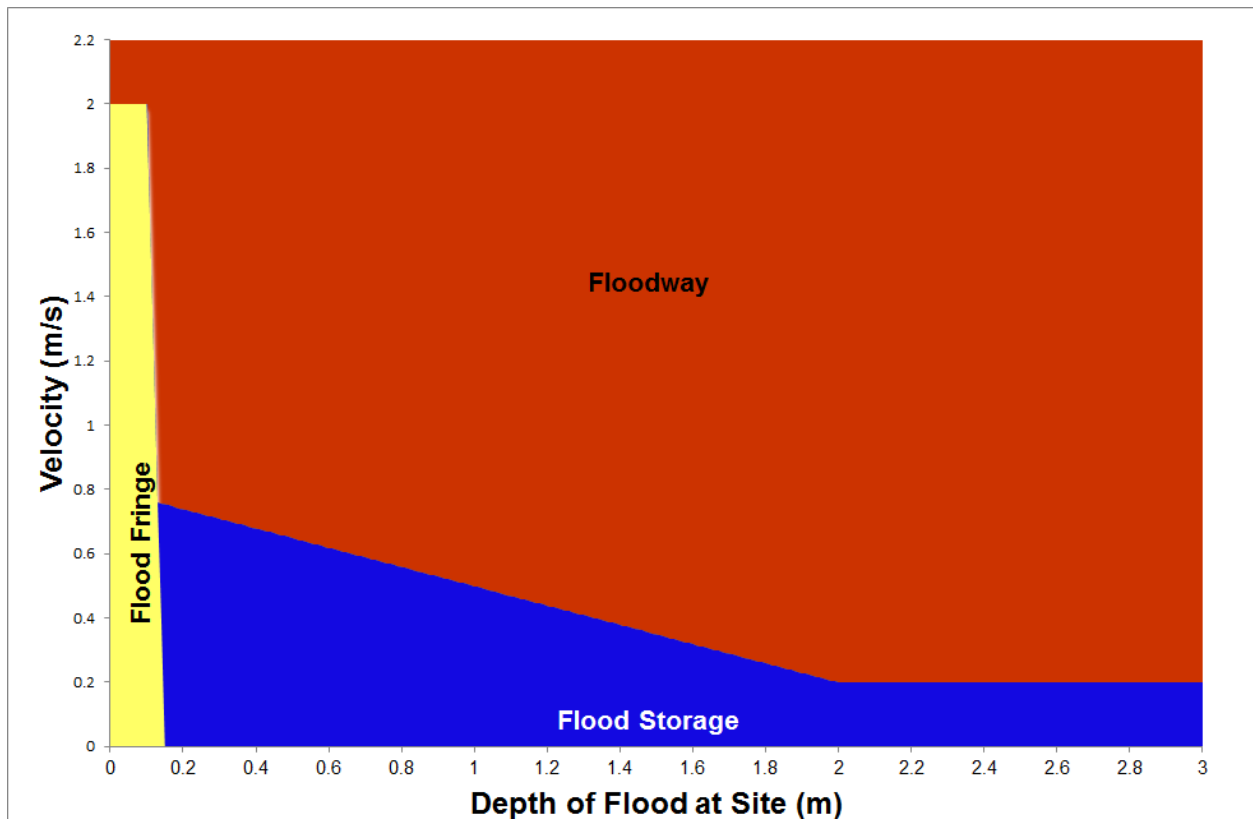


Plate 18 Adopted hydraulic category criteria for drainage areas

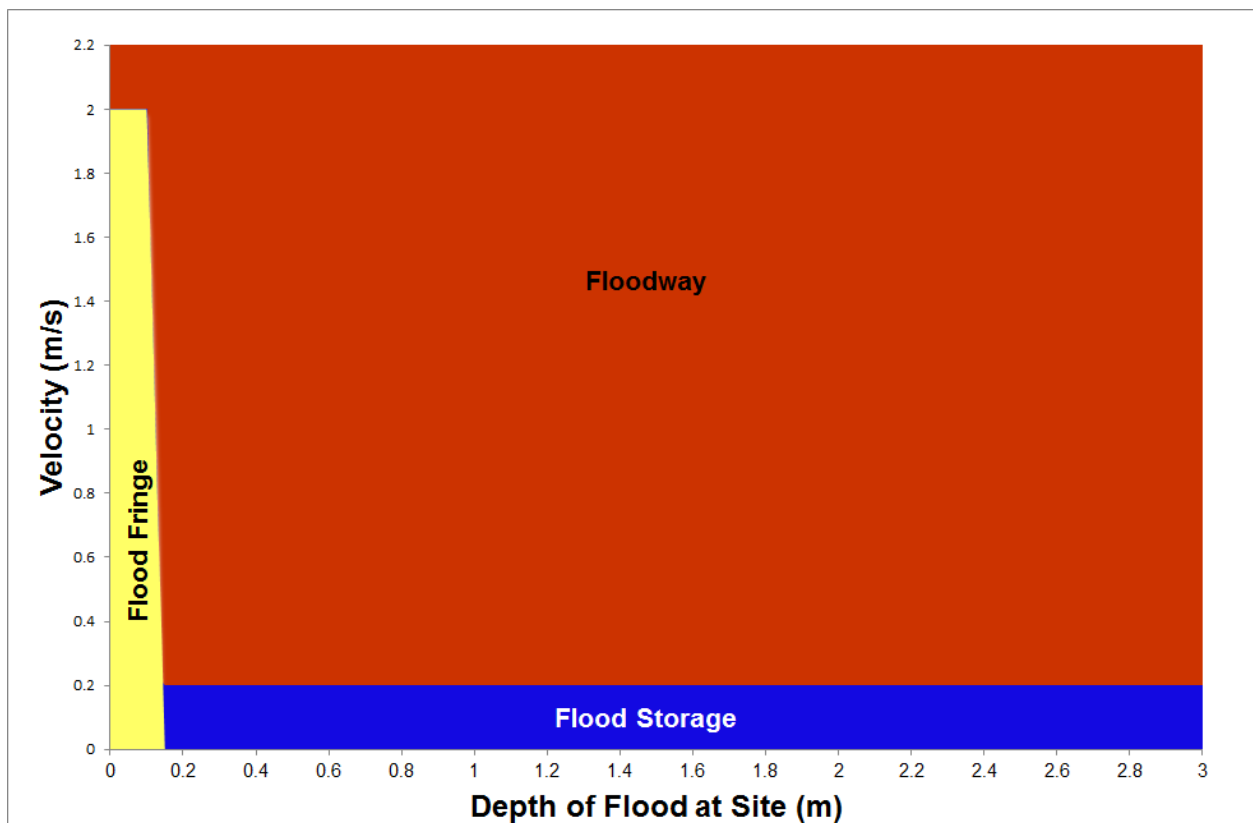


Plate 19 Adopted hydraulic category criteria for urban / non-drainage areas

5.8 Discussion on Flood Behaviour

5.8.1 Northern Area

The northern sections of the study area (i.e., Airds and Bradbury) are largely comprised of low-density residential development with isolated pockets of open space as well as more extensive open space fringing the eastern section of the study area adjacent to the Georges River gorge.

The contributing northern catchment areas are relatively small (when compared to the southern areas), with shallow overland flooding being the most common flooding mechanism. The small catchment areas means that flooding across the northern areas is typically “flashy”, with inundation commencing in as little as 5 minutes during the PMF. However, water is also quick to drain away, commonly receding in less than 1 hour.

Figures 9 to 15 show that most of the floodwaters across the northern sections of the study area are contained to roadways during all events up to and including the PMF. However, during floods that exceed the 20% AEP event, the capacity of the local stormwater system is exceeded at a number of locations resulting in water “ponding” at road low points and ultimately spilling through adjacent properties. Overland flooding through private residential properties was identified at the following locations:

- Airds:
 - Davidson Place
 - Douro Place
 - Peppin Crescent
 - Riverside Drive (near Katella Place)
 - Riverside Drive (near Kelburn Place)
 - Saxon Way
 - Tuppel Way
- Bradbury:
 - Pinaroo Crescent

As shown in **Figures 18 to 24**, overland flooding through residential properties in the northern areas is most commonly low hazard (i.e., H1) during events up to and including the 0.2% AEP flood. However, the depth of water at the various road low points would be sufficient to cut access (water depths are typically 0.2 to 0.3 metres in the 1% AEP flood at most road low points). Furthermore, overland flooding during the PMF can expose residential areas and roadways to pockets of H4 and H5 hazard which would be dangerous to cars and people. Therefore, there is a notable increase in flood exposure across the northern sections of the study area during the PMF.

Once water discharges from the urbanised sections of the catchment, it is generally contained to natural gullies and watercourses and conveyed into the Georges River. The various gullies and watercourses are incised/steep and, as a result, water is contained near each watercourse/gully.

5.8.2 Southern Area

The southern catchment areas include the suburbs of Ambervale, Rosemeadow and St Helens Park. Although the southern catchment areas are also primarily made up of low-density residential development and open space, it also includes a commercial area (Rosemeadow Market Place), a number of schools (e.g., Ambervale High School, St Helens Park Public School, Rosemeadow Public School, Mary Brookesbank School and John Therry Catholic College) as well as critical facilities (e.g., Rosemeadow Fire Station).

The contributing catchment areas are larger compared to the northern areas. As a result, there is more extensive drainage infrastructure including a number of detention basins and constructed drainage channels that are contained within open space.

Similar to the northern areas, **Figures 9 to 15** show that flooding across the urbanised sections of the southern areas is generally contained to roadways. Floodwater again accumulates at roadway low points before discharging through adjacent properties. Overland flooding through residential properties was identified at the following locations:

- Rosemeadow:
 - Thomas Ruse Drive
 - Demetrius Road
- Saint Helens Park
 - Karrabul Road,
 - Parma Crescent
 - Fullerton Circuit
 - Lavender Court
 - Mackillop Crescent
 - Pyramus Circuit
 - Carbasse Crescent

In addition to the locations identified above, a major overland flow path is predicted to extend from near the intersection of Copperfield Drive and Fitzgibbon Lane in a north-easterly direction towards Thomas Rose Drive. This includes parts of the Rosemeadow Marketplace and the Rosemeadow Fire Station. The depths and speed of water would be sufficient to produce up to H5 hazard during the 1% AEP flood, although this is contained to roads (refer to **Figure 21**). Notwithstanding, there would be a danger to personal safety in this area during large floods and vehicles could not be mobilised from the fire station.

Figures 9 to 15 also shows that the various detention basins would contain significant water depths (i.e., >1 metre). These depths would be sufficient to produce H4 hazard in most basins and would be unsafe for people during even relatively frequent events (e.g., 5% AEP flood).

As shown in **Figure 25**, a number of local roads are predicted to be cut during the 1% AEP flood. This includes sections of Appin Road, Copperfield Road and Cleopatra Drive. In most cases, the water depths across roads are less than 0.5 metres. Floodwaters across the residential sections are most commonly quick to rise and quick to fall (much like the northern area) with most roads being cut for less than 1 hour. However, water in the

various detention basins will take longer to drain (typically multiple hours). Therefore, it is likely that the detention areas and waterways draining out of the basins will remain hazardous for an extended period after the rainfall has ceased.

6 FUTURE FLOOD ASSESSMENT

6.1 Overview

The design flood results presented in the previous chapters have defined the nature and extent of the flood risk for existing topographic and development conditions. However, it is important to recognise that catchments are constantly evolving (e.g., increases in development/impervious areas) which could change the flood risk in the future. In addition, climate change has the potential to alter rainfall patterns which may also impact on current flood predictions.

Therefore, it is important to understand the potential impacts that future development as well as climate change may have on the existing flood risk across the study area. In this regard, additional climate change and future catchment development simulations were completed, and the results of these simulations are presented below.

6.2 Future Catchment Development

The following future development scenarios were assessed:

- Scenario 1 - Fully developed catchment with existing topographic conditions;
- Scenario 2 - Fully developed catchment with all developable areas elevated to above the peak 100 year ARI flood level.

The modifications that were completed to the hydrologic and hydraulic models to represent these scenarios and the results of the updated modelling are included in the following sections.

6.2.1 Scenario 1 - Fully developed catchment with existing topographic conditions

Scenario 1 incorporates development of the Campbelltown Southern Catchments to the full extent possible under Council's current LEP zoning. However, the impervious proportion across all residential zoned areas was increased by 5% to reflect knock down/rebuilds and construction of secondary dwellings/granny flats.

Campbelltown City Council also advised that a “land swap” is to be completed across parts of Airds. The land swap will see some areas that are currently zoned RE1 “upzoned” to R2, which will be compensated with some current R2 areas to be “down zoned” to RE1. The “upzoned” areas fall within a portion of Merino Reserve and the Tharawal Aboriginal Corporation that are contained within the study area while the areas to be “down zoned” fall outside of the current study area. Therefore, the land swap will result in a net increase in impervious areas within the study area and, was, therefore incorporated into the future catchment development assessment. The location of the lots to be converted from RE1 to R2 are shown in black in **Plate 16**.

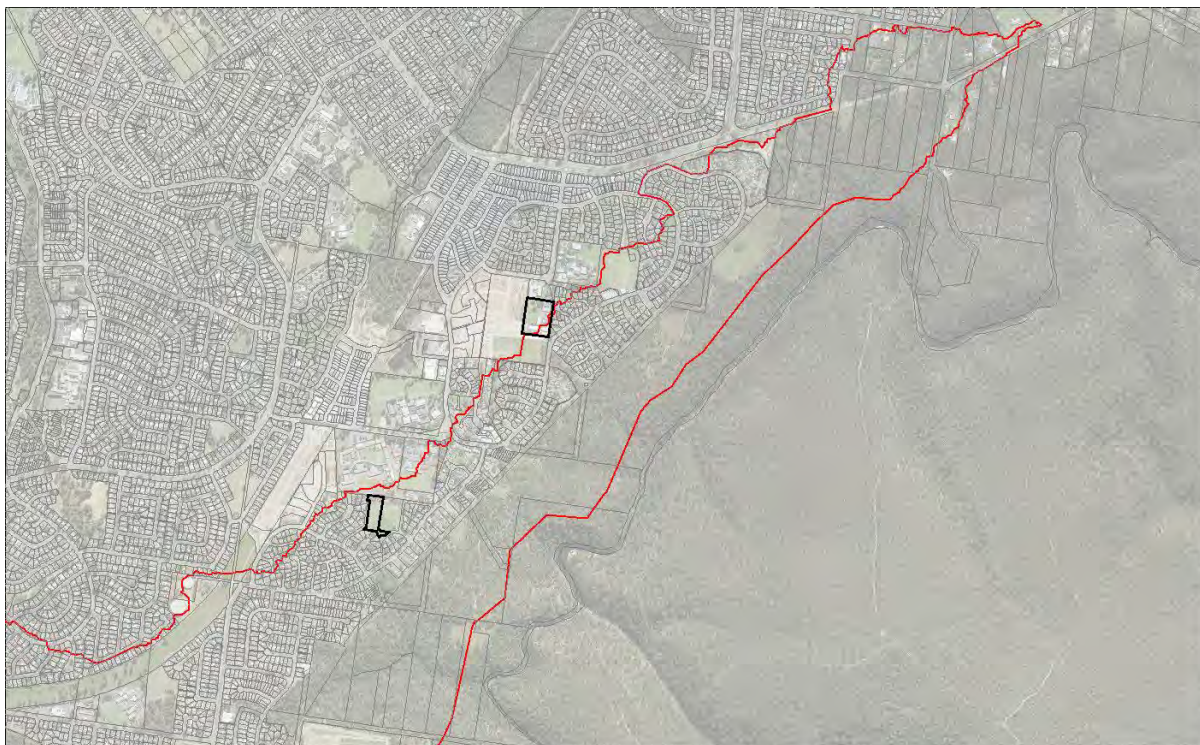


Plate 20 Location of lots for future land swap to be included as developed in the future catchment conditions simulations

Scenario 1 will reflect the increased runoff rates, volumes and peak discharges associated with increased impervious proportions across the study area, however, will not alter the topography at any location ensuring that all current flow paths are maintained. It also assumes that there will be no future mitigation works to minimise any increases in peak discharges and flood levels.

The XP-RAFTS model that was developed to represent existing conditions (refer Section 4.2) was updated to reflect the increased impervious areas and was used to re-simulate the 1% AEP flood. A complete listing of peak discharges for each subcatchment is provided in **Appendix G**. Peak 1% AEP discharges for existing conditions are also included for comparison.

As most of the areas suitable for development under Council's current LEP zoning are already developed, there is typically only opportunity for limited infill development and re-development of existing allotments. As a result, only small increases in peak 1% AEP discharges are predicted for future catchment conditions across most of the study area.

The TUFLOW model was then used to simulate the 1% AEP flood with the increased discharges associated with the future development. Peak floodwater depths and velocities were extracted from the results of the modelling and are presented in **Figure 34**. The predicted extent of inundation for existing conditions is also included on **Figure 34** for comparison.

Peak water levels were extracted from the results of the modelling and were compared against peak water flood levels for “base” design conditions. This allowed water level difference mapping to be prepared showing the magnitude of any change in water levels

associated with the increase in catchment development. The difference mapping is presented in **Figure 35**.

The results of the simulation indicate that the increases in runoff rates, volumes and peak discharges will typically produce small increases in peak 1% AEP floodwater levels across the Campbelltown Southern Catchments. However, the flood level increases are not predicted to exceed 0.06 metres, with changes less than 0.01 metres typical. As shown in **Figure 34**, increases of this magnitude are only predicted to cause very small changes in the current extent of inundation. Therefore, future catchment development is unlikely to have a significant adverse flood impact.

6.2.2 Scenario 2 - Fully developed catchment with all developable areas raised above the 1% AEP flood

Scenario 2 incorporates development across the Campbelltown Southern Catchments as per Scenario 1 discussed in the previous section. However, Scenario 2 also includes topographic modifications so that all potentially developable areas are raised to an elevation above the peak 1% AEP flood level.

Therefore, Scenario 2 will reflect the increased runoff rates, volumes and peak discharges associated with increased impervious proportions as well as topographic modifications such that all developable areas of land are elevated above the peak 1% AEP flood levels.

Scenario 2 applies the same hydrologic approach as Scenario 1. Therefore, no further modifications were completed to the XP-RAFTS model developed for Scenario 1. However, Scenario 2 incorporates topographic updates so that all potentially developable areas are raised to an elevation above the peak 1% AEP flood. Therefore, all areas located within commercial, industrial, residential, and special use zones were assumed to be elevated above the peak 1% AEP flood in the TUFLOW model.

A review of the fill areas was completed relative to existing drainage easements and existing overland flow paths. In instances where the fill areas were traversed by an existing overland flow path or drainage easement, an area was preserved for the conveyance of flood flows. That is, areas that currently serve as an overland flow path/drainage easement were preserved as part of the Scenario 2 assessment for the conveyance of future flood flows. The extent of the adopted 'fill' areas is shown in **Figure 36**.

The updated TUFLOW model was used to simulate the 1% AEP flood with the increased discharges as well as the topographic modifications. Peak floodwater depths and velocities were extracted from the results of the modelling and are presented in **Figure 36**. The predicted extent of inundation for existing conditions is also included on **Figure 36** for comparison.

Flood level difference mapping was also prepared to quantify the impact that future catchment runoff and terrain changes is predicted to have on "existing" design flood levels across the catchment. The difference mapping is presented in **Figure 37**.

The results of the simulation indicate that the filling in association with increased runoff is predicted to generate more substantial changes to peak 1% AEP flood levels across the

Campbelltown Southern Catchments. A maximum increase in peak flood level of about 0.3 metres is predicted in Pinaroo Crescent at Bradbury, however, the magnitude of the changes is typically less than 0.05 metres across most of the study area.

6.3 Climate Change Analysis

Climate change refers to a significant and lasting change in weather patterns arising from both natural and human induced processes. The Office of Environment and Heritage's *'Practical Consideration of Climate Change'* states that climate change is expected to have adverse impacts on rainfall intensities in the future.

Although there is uncertainty associated with the impact that climate change may have on rainfall, it was considered important to provide an assessment of the potential impact that climate change may have on the current flood risk across the study area. The interim climate change factors published in Australian Rainfall and Runoff (Ball et al, 2019) indicates that a 9.5% increase in rainfall is the best estimate of likely rainfall increases by 2090 under Representative Concentration Pathway scenario 4.5 (RCP4.5) (i.e., greenhouse gas emissions are reduced in the future). Under RCP 8.5 conditions (i.e., current greenhouse gas emissions increase in the future), rainfall intensities would likely increase by 19.7% by 2090 (refer **Plate 21**).

Interim Climate Change Factors			
	RCP 4.5	RCP6	RCP 8.5
2030	0.869 (4.3%)	0.783 (3.9%)	0.983 (4.9%)
2040	1.057 (5.3%)	1.014 (5.1%)	1.349 (6.8%)
2050	1.272 (6.4%)	1.236 (6.2%)	1.773 (9.0%)
2060	1.488 (7.5%)	1.458 (7.4%)	2.237 (11.5%)
2070	1.676 (8.5%)	1.691 (8.6%)	2.722 (14.2%)
2080	1.810 (9.2%)	1.944 (9.9%)	3.209 (16.9%)
2090	1.862 (9.5%)	2.227 (11.5%)	3.675 (19.7%)

Plate 21 Adopted rainfall increase for climate change simulation (Geoscience Australia, 2019)

The rainfall increases were applied to the current 20% AEP and 1% AEP rainfall depths as well as the PMP and the revised rainfall was routed through the XP-RAFTS model. The revised design discharges were extracted from the results of the modelling and are included in **Appendix G**. Peak discharges for the “base” conditions are also included in **Appendix G** for comparison.

The peak discharge comparison indicates that increases in rainfall will increase peak discharges throughout the study area. The peak 1% AEP discharges are predicted to increase by 11%, on average, if rainfall intensities were to increase by 9.5%. If rainfall intensities were to increase by 19.7%, peak 1% AEP discharge could be expected to increase by 22%, on average, at key locations.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 20% AEP and 1% AEP floods as well as the PMF with the rainfall increases. Peak water levels were extracted from the results of the modelling and were compared against peak water levels for “base” design conditions. This allowed water level difference mapping to be prepared showing the magnitude of change in water levels associated with the predicted increases in rainfall. The difference mapping is presented in **Figures 38 to 43**.

Figure 39 shows that the 9.5% increase in rainfall scenario is predicted to increase 1% AEP flood levels by at least 0.1 metres along the major watercourses and within detention basins with localised increases approaching 0.2 metres in some areas. In areas of shallow, overland flooding, the increases in 1% AEP flood levels generally do not exceed 0.05 metres.

Figure 42 shows the 19.7% increase in rainfall scenario is predicted to commonly increase existing 1% AEP flood levels by 0.2 metres across defined watercourses and basins. Localised flood level increases of 0.4 metres are predicted upstream of the Kellerman Drive culvert crossing of Mansfield Creek.

If a 9.5% increase in rainfall was to occur in the future, it would effectively turn a future 1% AEP flood into the equivalent of a present day 0.5% AEP flood. If a 19.7% increase in rainfall was to occur, it would equate to a future 1% AEP flood being the equivalent of a present day 0.2% AEP flood. Or to look at it another way, a future 1% AEP flood would likely have a future frequency of more than a 2% AEP.

Accordingly, the outcomes of the climate change simulations show that increases in rainfall associated with climate change have the potential to increase the severity of flooding across the study area.

7 SENSITIVITY ANALYSIS

7.1 Overview

Computer flood models require the adoption of parameters that are not necessarily known with a high degree of certainty or are subject to variability. Each of these parameters can impact on the results generated by the model.

As outlined in Section 4, computer models are typically validated using recorded rainfall, stream flow and/or flood mark information. Validation is achieved by adjusting the parameters that are not known with a high degree of certainty until the computer model is able to reproduce the recorded flood information. Validation is completed to ensure the adopted model parameters are generating realistic estimates of flood behaviour.

Unfortunately, no historic flood information was available to allow validation of the computer models. Therefore, it was important to understand how any uncertainties and variability in model input parameters may impact on the results produced by the model. Therefore, a sensitivity analysis was undertaken to establish the sensitivity of the results generated by the computer model to changes in model input parameter values. The outcomes of the sensitivity analysis are presented below.

7.2 Hydrologic Model Inputs

7.2.1 Initial / Storm Loss

An analysis was undertaken to assess the sensitivity of the results to variations in antecedent wetness conditions (i.e., the dryness or wetness of the catchment prior to the design storm event). A catchment that has been saturated prior to a major storm will have less capacity to absorb rainfall. Therefore, under wet antecedent conditions, there will be less “initial loss” of rainfall and consequently more runoff. For example, much of the flooding across Sydney in 2022 was contributed by the saturated state of each catchment (a result of the quick succession of storm front and the lack of time for the catchment to “dry”).

The variation in antecedent wetness conditions was represented by altering the “storm” rainfall loss in the XP-RAFTS model. This involved altering the probability neutral rainfall losses discussed in Section 5.2.3 by $\pm 20\%$ and re-running the 1% AEP storms. The revised 1% AEP discharges were extracted from the results of the modelling and are included in **Appendix H**. Peak 1% AEP discharges for the “base” conditions are also included in **Appendix H** for comparison.

The peak discharge comparison indicates that increasing the storm loss (reflecting a dryer catchment) decreases peak design discharges at most locations. More specifically, peak 1% AEP discharges are predicted to reduce by about 4%.

Reducing the storm loss (reflecting a wetter catchment) is predicted to generate very small increases in peak design discharges at most locations. Peak 1% AEP discharges are

predicted to increase by an average of 1%, although localised increases of more than 10% are predicted at a small number of locations.

Overall, the peak discharges do not appear to be particularly sensitive to the adopted storm losses.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified storm losses. Peak water levels were extracted from the results of the modelling and were compared against peak flood levels for “base” design conditions. This allowed water level difference mapping to be prepared showing the magnitude of any change in water levels associated with the change in initial loss values. The difference mapping is presented in **Figures 44 and 45**. Decreases in “design” flood levels associated with the parameter change are shown in shades of green/blue and increases in flood levels are shown in shades of yellow/red.

The difference mapping shows that altering the initial loss value will generate only small changes in 1% AEP flood levels. The changes generally do not exceed 0.02 metres and are generally concentrated in detention areas. Therefore, the hydraulic model results do not appear to be sensitive to the adopted initial loss.

7.2.2 Continuing Loss Rate

An analysis was also undertaken to assess the sensitivity of the results generated by the XP-RAFTS model to variations in the adopted continuing loss rates. Accordingly, the continuing loss rates within the XP-RAFTS model were changed from the “design” values of 0.96 mm/hr (pervious areas) and 0 mm/hr (impervious areas) to:

- Increased Continuing Loss Rates: 1.46 mm/hr for pervious areas and 0.5mm/hr for impervious areas.
- Decreased Continuing Loss Rates: 0.46 mm/hr for pervious areas and 0mm/hr for impervious areas.

The modified continuing loss rates were applied to the XP-RAFTS model and were used to re-simulate the 1% AEP storms. The revised 1% AEP discharges were extracted from the results of the modelling and are included in **Appendix H**.

The peak discharge comparison indicates that changing the continuing loss rate generally produces only small changes in peak 1% AEP discharges. More specifically, the peak 1% AEP discharges are not predicted to change by more than 1%. Accordingly, the hydrologic model does not appear to be particularly sensitive to changes in the adopted continuing loss rate.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified continuing loss rates. Peak water levels were extracted from the results of the modelling and were used to prepare flood level difference mapping which is presented in **Figures 46 and 47**.

The results of the sensitivity analysis show that the TUFLOW model is relatively insensitive to changes in continuing loss rates. More specifically, **Figures 46 and 47** shows that only small (i.e., generally no greater than 0.01m) localised changes in 1% AEP flood levels are predicted with the modified continuing loss rates.

Therefore, it can be concluded that any uncertainties associated with the adopted continuing loss rates are unlikely to have a significant impact on the results generated by the TUFLOW model.

7.2.3 Temporal Pattern

As discussed in Section 5.2.4, ten different temporal patterns were applied to each design storm frequency and duration. A temporal pattern that provided a peak discharge roughly in the middle of the range was adopted as part of the 'base' design flood simulations. However, it was considered important to gain an understanding of how variations in the rainfall temporal pattern (i.e., how the rainfall is distributed over time) may impact on the results generated by the model. Therefore, additional simulations were completed with temporal patterns that most commonly generated peak discharges at the "upper" and "lower" end of the discharge range at each of the focus locations shown in **Plate 13**.

A review of the temporal patterns was completed to identify the temporal pattern that most commonly produced the highest and lowest peak 1% AEP discharges. This review yielded the selection of temporal patterns in **Table 19**.

Table 19 Adopted storms for temporal pattern sensitivity simulations of the 1% AEP event

Scenario	Storm Durations and Temporal Pattern ID				
	10 mins	20 mins	45 mins	60 mins	120 mins
Low TP	4356	4427	4531	4555	4615
Adopted TP	4354	4429	4533	4558	4611
High TP	4366	4432	4535	4360	4613

Appendix H summarises the peak discharges at each subcatchment that are generated using the temporal patterns listed above. The 'base' peak discharges are also listed for comparison.

The comparison presented in **Appendix H** shows that the temporal patterns that produce lower peak discharges will generate peak 1% AEP discharges that are 9% lower (on average) respectively relative to the base peak discharges. Adopting a temporal pattern that produces high peak discharges is predicted to increase peak 1% AEP discharges by 16%, on average.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified temporal patterns. Flood level difference mapping was prepared to display the impacts of the temporal pattern modifications and are presented in **Figures 48 and 49**.

The difference mapping shows that adopting a lower temporal pattern can reduce 1% AEP flood levels by up to 0.2 metres. However, the reductions were most commonly less than 0.05 metres. It was noted that the lower temporal patterns did not reduce flood levels at all locations, with some areas exposed to small flood level increases of up to 0.02 metres.

Adopting the higher temporal patterns produced flood level increases of over 0.2 metres in isolated locations, however, increases of up to 0.1 metres are more common. A small number of flood level reductions of 0.01 metres were also observed.

Accordingly, the peak design discharges and water level results are sensitive to the adopted temporal pattern. However, it should be acknowledged that the chance of the 1% AEP rainfall occurring in conjunction with the “worst case” temporal pattern is likely to be rarer than 1% AEP. Accordingly, it is considered that the adopted temporal patterns better maintain AEP neutrality.

7.2.4 Catchment Storage

The XP-RAFTS model includes a representation of catchment storage and the associated attenuation of flows that this storage provides as runoff moves across each subcatchment. By default, a “storage coefficient multiplication factor” (often referred to as “Bx”) of 1.0 is applied. To gain an understanding of how changes to catchment storage may impact on the design flood results, additional sensitivity simulations were complete using a Bx factor of 0.8 and 1.2 reflecting a 20% reduction and increase respectively of the XP-RAFTS model storage.

Appendix H summarises the peak discharges at each subcatchment that are generated using the modified storage multiplication factors. The ‘base’ peak discharges are also listed for comparison.

The comparison presented in **Appendix H** shows that reducing storage by 20% produces peak discharges that are 3% higher (on average) relative to the base peak discharges. Increasing the catchment storage by 20% produces 1% AEP peak discharges that are 2% lower, on average.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the 1% AEP flood with the modified storage factor. Flood level difference mapping was prepared to display the impacts of the storage multiplication factor modifications and are presented in **Figures 50 and 51**.

The difference mapping shows that applying a 20% reduction in catchment storage in will commonly increase 1% AEP flood levels by 0.01 metres within main conveyance areas and some storage areas, with isolated increases of up to 0.05 metres. Applying a 20% increase in storage will result in reductions in peak 1% AEP flood levels of 0.01 metres within main conveyance and some storage areas.

Accordingly, the peak design discharges and water level results are not considered sensitive to the adopted storage multiplication factor.

7.2.5 PMP Spatial Distribution

As discussed in Section 5.2.1 and presented in **Appendix E**, deriving a probable maximum precipitation (PMP) estimate requires application of ellipses to describe the spatial distribution of rainfall. In accordance with the Bureau of Meteorology's ‘*Generalised Short Duration Method*’ (GSDM) (Bureau of Meteorology, 2003), the PMP ellipses were arranged such that the smallest ellipse enclosed the overall catchment area. However, there is potential for a PMP-type rainfall event to be distributed in a difference manner (e.g., the most intense rainfall could be focussed on the northern sections of the study area rather

than the southern section, where the ellipses were concentrated as part of the current study).

To understand what impact the distribution of PMP rainfall would have on peak PMF discharges, levels and extents, revised PMP calculations were prepared based on the ellipses shown in **Plate 22**.



Plate 22 Adopted ellipses for PMP spatial distribution sensitivity assessment

The revised PMP rainfall estimates were applied to the XP-RAFTS hydrologic model and the model was used to simulate the conversion of rainfall into runoff for the PMP events. **Appendix H** summarises the peak discharges at each subcatchment based on the modified PMP spatial distribution. The 'base' peak discharges are also listed for comparison.

The results of the revised simulations showed that the modified PMP rainfall would result in peak PMF discharges across the northern sections of the study area commonly increasing by 10-20%. Peak discharges across the southern catchment areas reduced by a similar amount. On average, PMF discharges were predicted to be about 10% lower with the modified distribution. This is mainly associated with the larger southern catchments experiencing lower peak discharges and, therefore, biasing the subcatchment averaged discharges. The critical storm duration did not vary significantly indicating the catchment responses was relatively unaffected by the spatial distribution.

The revised discharge hydrographs were then applied to the TUFLOW model and the TUFLOW model was used to re-simulate the PMF with the modified spatial distribution. Flood level difference mapping was prepared to display the impacts of the modified spatial distribution and are presented in **Figures 52**.

The difference mapping shows that across the northern catchment areas, peak PMF levels will generally increase by no more than 0.05 metres across the urbanised sections of the catchment (although increases approach 0.1 metres upstream of some buildings). In the more incised natural waterways, the differences approach +0.2 metres. However, because of the incised nature of the terrain, this water level increase does not translate to a significant increase in flood extent.

Across the southern catchment areas, flood level reductions are predicted. The reductions are generally no greater than 0.05 metres, although approach 0.1 metres in some detention areas. Again, the largest differences (i.e., -0.2 metres) are concentrated in the incised channels well downstream of the urbanised areas.

The outcomes of the sensitivity assessment show that the adopted PMP distribution does have the potential to increase and decreases peak PMF discharges and levels across the study area. However, the most significant differences are contained to incised channel areas that are located away from development and differences across the urbanised areas are generally less than 0.05 metres. Therefore, the adopted PMF estimates are considered reasonable.

7.3 Hydraulic Model Inputs

7.3.1 Roughness Coefficients

Manning's "n" roughness coefficients are used to describe the resistance to flow afforded by different land uses and surfaces across the catchment. However, they can be subject to variability (e.g., vegetation density in the summer would typically be higher than the winter leading to higher Manning's "n" values). Therefore, additional analyses were completed to quantify the impact that any uncertainties associated with Manning's "n" roughness values may have on predicted design flood behaviour.

The TUFLOW model was updated to reflect a 20% increase and a 20% decrease in the adopted design Manning's "n" values and additional 1% AEP simulations were completed with the modified "n" values (no changes to hydrology were completed as part of this assessment). Peak flood levels were extracted from the results of the modelling and were used to prepare flood level difference mapping, which is presented in **Figures 53 and 54**.

In general, the changes in 1% AEP flood levels associated with increases and decreases in Manning's "n" values are predicted to be less than 0.05 metres, but localised flood level increases/decreases of 0.2 metres are predicted, primarily along heavily vegetated watercourses. It is noted that reducing "n" values will typically reduce flood levels. However, there are some areas where the more rapid response of rainfall is predicted to generate localised increases in flood levels, such as detention areas. Conversely, the increase in "n" values will typically increase flood levels, but the additional attenuation will result in flood level reductions across some locations (again, typically detention areas).

Although localised changes in flood level of up to ± 0.2 metres are predicted at isolated locations, the change in flood level across most of the study area, including across urban

areas, are predicted to be much smaller. As a result, it is considered that the overall model is relatively insensitive to changes in Manning's 'n' values.

7.3.2 Structure Losses

Loss coefficients were included for each culvert to represent hydraulic losses through each structure. To gain an understanding of how uncertainty in the loss coefficients may impact on the design flood results, revised simulations were completed with the loss coefficients increased and decreased by 20%.

The updated versions of the model were used to re-simulate the 1% AEP flood with the modified loss coefficients. Peak water level results were extracted and used to prepare flood level difference mapping which is enclosed in **Figures 55 and 56**.

The results of the simulations show that altering the loss coefficient by $\pm 20\%$ is predicted to produce small, localised impacts on peak flood levels, particularly upstream of large drainage infrastructure. In all cases the flood levels are not predicted to change by more than 0.05 metres. Therefore, any uncertainty in the representation of structure losses does not have a significant influence on the model results.

7.3.3 Blockage

As discussed in Section 5.3.2, blockage factors were applied to all bridges, culverts and stormwater inlets as part of the design flood simulations. However, as it is not known which structures will be subject to what percentage of blockage during any flood, additional TUFLOW simulations were completed to determine the impact that alternate blockage scenarios would have on flood behaviour. Specifically, additional simulations were undertaken for the following blockage scenarios:

- Low Blockage: No blockage assigned to stormwater pits or culverts.
- High Blockage: Complete blockage assigned to all stormwater pits and all culvert with a diagonal dimension less than 3m.

Peak flood levels were extracted from the results of the modelling and were used to prepare flood level difference mapping, which is presented in **Figures 57 and 58**.

The results indicate that changes in 1% AEP flood levels as a result of the low blockage scenario generally produce changes of $< \pm 0.1$ metres along main conveyance and storage areas, with decreases typical upstream of structures, and increases typical downstream of structures. Little to no impact is predicted across urban areas as a result of the reduced stormwater pit blockage, primarily associated with the stormwater system already flowing at capacity with design blockage applied during a large storm event (such as the 1% AEP flood).

Conversely, with complete blockage applied to stormwater pits and culverts with diagonal dimension less than 3 metres, large and widespread increases in peak flood level are predicted. Design flood levels are predicted to increase by over 0.8 metres upstream of Kellerman Drive (near Bernard Place) which is driven by the elevated embankment at this location. Flood increases elsewhere are generally not predicted to exceed 0.4 metres, with increases of < 0.1 metres typical in urban areas as a result of the blockage of the stormwater

pits. Some commensurate decreases in water level downstream of structures are predicted and associated with the “damming” effect provided by the embankment around blocked structures.

The results of the blockage sensitivity analysis do show that the model results are sensitive to variations in blockage in the vicinity of major hydraulic structures, particularly if complete blockage of structures occurs. It also indicates that blockage of the stormwater pits can also have a noteworthy impact on local flood levels. This outcome emphasises the need to ensure key drainage infrastructure and bridges/culverts are well maintained (i.e., debris is removed on a regular basis).

7.4 Model Results Confidence Limits

The results from the various sensitivity simulations were used to understand the degree of confidence that can be placed in the design flood level estimates (as defined in Chapter 5). This was completed by statistically analysing the results of the various 1% AEP sensitivity simulations to assign “confidence limits” to the peak 1% AEP flood level estimates.

To reliably define confidence limits to the 1% AEP results, it would be necessary to undertake thousands (potentially tens of thousands) of simulations to reflect the numerous combinations of potential parameter estimates and provide a sufficiently large population to enable meaningful statistical analysis. Unfortunately, the long hydraulic model simulation times only permit a limited number of parameter scenarios to be investigated.

In instances where a sufficiently large “population” of results is not available, it is still possible to derive confidence limits using the Student’s t-test (Zhang, 2013). This approach involves interrogating peak flood level estimates from all 1% AEP simulations (i.e., base and sensitivity) at each TUFLOW grid cell. This information is used to calculate a mean water level and standard deviation at each grid cell. This information can then be combined with the number of degrees of freedom (i.e., number of different 1% AEP simulations minus 1) and a “t-table” to develop 99% confidence limit estimates at each TUFLOW grid cell.

The resulting “99% Confidence Limit” grid is shown in **Plate 23**. Lighter colours indicate small confidence limits (i.e., more confidence in results) and darker colours indicate higher confidence limits (i.e., less confidence in results). It is noted that the Student’s t-test assumes that the population of results is “normally” distributed with the majority of the parameters and results located in close proximity to the mean. However, the sensitivity analysis typically adopts parameter values that are at the extremes of realistic ranges. As a result, the population of water level results is unlikely to be normally distributed and the calculated confidence limits are, therefore, likely to be conservative.

The confidence interval grid provided in **Plate 23** shows that across most of the study area, the confidence interval is better than 0.1 metres. That is, there is 99% confidence that the “true” 1% AEP flood level is contained within ± 0.1 metres of the “base” 1% AEP simulations documented in Chapter 5 across most of the study area.

However, some localised areas are subject to greater uncertainty (i.e., larger confidence limits). These areas are generally upstream of major culverts where uncertainty associated with blockage has the potential to alter flood levels.

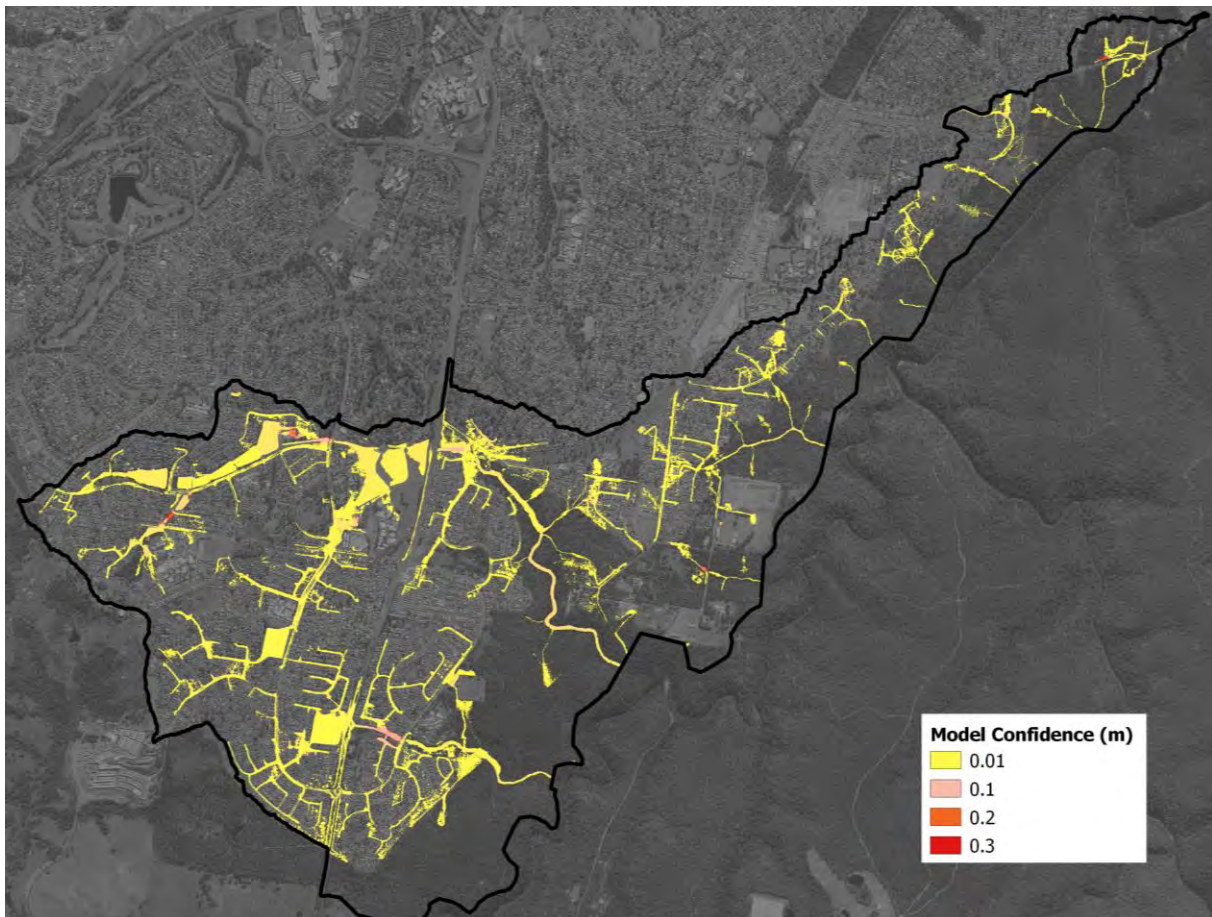


Plate 23 99% Confidence Interval for 1% AEP Water Level

Overall, the 1% AEP design water levels are expected to be accurate to within ± 0.25 metres at most locations, with higher accuracy in areas of shallow inundation and/or away from major hydraulic structures.

8 FLOOD PLANNING INFORMATION

8.1 Overview

Appropriate land use planning is one of the most effective measures available to manage the flood risk (particularly to control future risk but also to reduce existing flood risks as redevelopment occurs). A full review of land use planning including appropriate zoning, policies and planning/building controls is typically undertaken as part of the floodplain risk management study.

Nevertheless, *'Australian Disaster Resilience Handbook 7 Managing the Floodplain: A Guide to Best Practice in Flood Risk Management in Australia'* (ADR Handbook 7) (AIDR, 2017) recommends using the best available information to manage the flood risk at all times. Therefore, if a flood study is available that contains relevant information (such as this one), there is no need to wait for the floodplain risk management study before this flood information is used to inform land-use planning. Accordingly, the following chapter outlines the process that was employed to develop flood planning category constraint mapping to assist in informing future land-use planning decisions.

In addition, the results of the flood study can be used to determine the flood planning area (i.e., the area within which flood-related development controls apply). Development of the flood planning area and the associated identification of flood control lots can help to ensure that areas with a higher flood exposure/risk are identified and, should new development or re-development occur, will help ensure appropriate controls are implemented such that the flood exposure/risk is not increased.

8.2 Flood Planning Area

Flood Planning Levels (FPLs) are an important tool in the management of flood risk and are derived by adding a freeboard to the Defined Flood Event (most commonly the 1% AEP flood). The FPLs can then be combined with topographic information to establish the Flood Planning Area (FPA). The FPL and FPA can then be used to assist in managing the existing and future flood risk by:

- Setting design levels for mitigation works (e.g., levees); and
- Identifying land where flood-related development controls apply to ensure that new development is undertaken in such a way as to minimise the potential for flood impacts on people and property.

The “freeboard” is a factor of safety that is used to account for uncertainties in deriving the planning flood levels (e.g., wave action, blockage). Campbelltown City Council currently specifies a variable freeboard as documented in Section 4.5 of *'Engineering Design for Development'* (2014) for habitable developments as follows:

- Flow depth <0.3m = 0.3m freeboard
- Flow depth >0.3m = 0.5m freeboard

However, before application of the freeboard to the 1% AEP flood level results, it was acknowledged that some sections of the catchment are only exposed to very shallow water depths, and this would not constitute a significant flood risk or result in property damage. Therefore, a filter was first applied to the raw 1% AEP flood level results to remove areas where there was a low flood risk while ensuring all areas with a more significant flood risk were retained. In this regard, all areas that satisfied one of the following criteria were retained as part of the FPA calculations:

- 1% AEP depths > 0.15m
- 1% AEP hazard > H1

The variable freeboards were added to the filtered 1% AEP water level results documented in Section 5.4.2 based on the associated water depth to produce two preliminary flood planning level grids. The flood planning level grids were then extended laterally until they intersected higher ground. The higher of the two flood planning level grids was adopted as the final flood planning level for a particular location. The resulting flood planning area is shown in **Figure 59**.

8.3 Flood Planning Constraint Categories

Flood planning constraint category mapping was prepared based on guidance provided in the *'Australian Disaster Resilience Guideline 7-5: Flood Information to Support Land-use Planning'* (AIDR 2017). This guideline delineates flood liable land into one of four major "constraint" categories (with several subcategories) based upon key flooding constraints such as flood hazard, flood function and emergency response. The resulting categories can serve to inform land use planning activities. The guideline notes that the categorisation is intended to support community/precinct scale decisions where flow paths and flood extents can be readily defined and was not developed to support change of land use or development at the lot/site scale.

The flood planning constraint categories (FPCC) are summarised in **Table 20**. **Table 20** also summarises how the categories are defined along with the associated planning implication/considerations. In general, a FPCC categorisation of "1" implies a more flood constrained section of land relative to FPCC category "2", and so on.

The categories use a "Defined Flood Event" (DFE), which is analogous to the "planning flood" (i.e., 1% AEP event). It also requires consideration of flood impacts in events rarer than the DFE. The 0.5% AEP event was selected for this purpose.

The information contained in **Table 20** was used with the flood modelling outputs (most notably the flood hazard, hydraulic category and emergency response mapping) to prepare the FPCC map shown in **Figure 60**. Also included on **Figure 37** are the current land use zones to gain an appreciation of how the current zoning aligns with the FPCC. The proportion of each land zone that falls within each FPCC was also extracted and is presented in **Table 21**.

Table 20 Flood Planning Constraint Categories (AIDR, 2017)

FPCC	Sub-Category	Constraint	Implications	Consideration
1	A	Flow conveyance and storage areas in the DFE	Development or changes to topography within flow conveyance areas and flood storages areas affect flood behaviour, which will alter flow depth or velocity in other areas of the floodplain. Changes can negatively affect the existing community and other property	The majority of developments and uses have adverse impacts on flood behaviour. Consider limiting uses and development to those compatible with maintaining flood function
	B	H6 hazard in the DFE	Hazardous conditions considered unsafe for vehicles and people. All building types are considered vulnerable to structural failure	The majority of developments and uses are vulnerable to failure in this flood hazard category. Consider limiting developments and uses to those that are compatible with flood hazard H6
2	A	Flow conveyance area in events larger than the DFE	Flow conveyance areas may develop during an event larger than the DFE. People and buildings in these areas may be affected by flowing and dangerous floodwaters	Consider compatibility of developments and users with rare flood flows in this area
	B	H5 hazard in the DFE	Hazardous conditions are considered unsafe for vehicles and people, and all buildings are vulnerable to structural damage	Many uses and developments will be vulnerable to flood hazard. Consider limiting new uses to those compatible with flood hazard H5. Consider treatments such as filling (where this will not affect flood behaviour) to reduce the hazard to a level that allows standard development conditions to be applied. Alternatively, consider a requirement for special development conditions
	C	Isolated and submerged areas (low flood island or low trapped perimeter in 1%AEP event)	Area becomes isolated by floodwater or impassable terrain, with loss of evacuation route to the community evacuation location. The area will become fully submerged with no flood-free land in an extreme event, with ramifications for those who have not evacuated and are unable to be rescued	Consequences of isolation and inundation can be severe. Consider the consequences of: • evacuation difficulty or inundation of the area on the development and its users, which may include limitations on land use, or on land use that has occupants who are more vulnerable to disruption and loss • the development on emergency management planning for the existing community, including the need for additional treatments • the development on community flood recovery • disruption or loss of the development on the users and wider community
	D	Isolated but not submerged areas (high flood island or high trapped perimeter in 1%AEP event)	Area becomes isolated by floodwater or impassable terrain, with loss of an evacuation route to a community evacuation location. The area has some land elevated above the extreme flood level. Those not evacuated may be isolated with limited or no services, and will need rescue or resupply until floods recede and roads are passable	Some developments and their users may be vulnerable to disruption or loss. Consider: • the consequences of disruption or loss of the development on the users and the wider community • limiting land use, or land use that has occupants who are more vulnerable to disruption and loss • additional emergency management treatment requirements • issues associated with the level of support required during a flood, particularly for long-duration flood events
	E	H6 hazard in events rarer than the DFE	Hazardous conditions may develop in an event rarer than the DFE, which may have implications for the development and its occupants	Consider the need for additional development conditions to reduce the effect of flooding on the development and its occupants

FPCC	Sub-Category	Constraint	Implications	Consideration
3	-	Outside FPCC 2 but generally below the DFE plus freeboard	Hazardous conditions may exist creating issues for vehicles and people. Structural damage to buildings that meet building standards unlikely because of flooding	Standard land-use and development controls aimed at reducing damage and the exposure of the development to flooding in the DFE are likely to be suitable. Consider the need for additional conditions for emergency response facilities, key community infrastructure and vulnerable users
4	-	Outside of FPCC 3 but within the PMF extent	Emergency response may rely on key community facilities such as emergency hospitals, emergency management headquarters and evacuation centres operating during an event. Recovery may rely on key utility services being able to be readily re-established after an event	Consider the need for conditions for emergency response facilities, key community infrastructure and land uses with vulnerable users

The FPCC categories presented in **Figure 59** show that current land use zones are broadly compatible with the level of flood exposure. More specifically, the more highly constrained land (i.e., FPCC 1) typically coincides with areas of open space (i.e., zones RE1 and RE2 or on roadways), which is considered to be a compatible land use. The only notable exceptions are:

- The major overland flow path that extends from Fitzgibbon Ln towards Rosemeadow Reserve (refer **Figures 59.5** and **59.6**) where FCC 1A extends across multiple commercial/critical properties such as a service station, dental care centre, and the Rosemeadow Fire and Rescue NSW station.
- FCC 1A also extends through residential properties between Peppin Crescent and Georges River Road (just east of Tiverton Way).

The FCC 1A categorisation indicates that any flow obstructions have the potential to impact on flood behaviour. Therefore, care will need to be exercised if any new/redevelopment occurs in these areas to ensure existing flow paths and storage areas are retained. For example, any filling or construction of buildings that would serve to obstruct flow or remove storage volume should be avoided and the potential to install “open” fencing could be explored.

Table 21 Land use zones falling within each FPCC

Zone	FPCC									
	1		2					3	4	Not Impacted
	A	B	A	B	C	D	E			
B1	4%	0%	0%	0%	0%	1%	0%	3%	12%	79%
E3	1%	0%	0%	0%	0%	0%	0%	0%	12%	87%
E4	0%	0%	0%	0%	0%	0%	0%	0%	2%	98%
R2	2%	0%	0%	0%	0%	1%	0%	0%	17%	79%
RE1	9%	0%	0%	0%	0%	1%	0%	4%	8%	77%
RE2	9%	0%	0%	0%	0%	0%	0%	2%	0%	89%
RU2	10%	0%	0%	0%	0%	0%	0%	2%	12%	76%
SP2	5%	0%	0%	0%	0%	0%	0%	0%	12%	83%

FPCC 4 is the most dominant category impacting on the study area. In general, this should not present significant issues for most development types. However, care will need to be exercised for particularly sensitive or important land uses (e.g., hospitals, aged care facilities, preschools).

9 CONCLUSION

This report documents the outcomes of investigations completed to quantify flood behaviour across the Campbelltown Southern Catchments study area. It provides information on design flood discharges, levels, depths and velocities as well as hydraulic and flood hazard categories for a range of design floods.

Flood behaviour across the study area was defined using a hydrologic computer model of the catchments draining through the study area as well as a two-dimensional hydraulic model. The hydrologic computer model was developed using the XP-RAFTS software and the hydraulic model was developed using the TUFLOW software.

The models were used to simulate the design 20% AEP, 5% AEP, 2% AEP, 1% AEP, 0.5% AEP and 0.2% AEP floods based upon the 2019 version of *Australian Rainfall and Runoff* (Ball et al). The Probable Maximum Flood (PMF) was also simulated. The following conclusions can be drawn from the results of the investigation:

- Flooding can occur from a variety of different storm and rainfall durations. The worst-case flooding across the urban sections of the study area most commonly occurs as a result of rainfall bursts over a 10 minute duration. Peak water levels within detention basins most commonly occur as a result of longer storm durations of up to 6 hours. Accordingly, flooding across the study area may be produced by relatively short, high intensity thunderstorms through to longer rainfall events that may be generated by east coast lows.
- The flood modelling shows that floodwaters are typically contained close to each of the main watercourses, detention basins as well as within roadways. However, there are several locations where floodwaters are predicted to travel overland through private property.
- Inundation of over 700 properties is predicted at the peak of the 1% AEP flood (out of a total of 6,965 properties located within the study area). This includes potential inundation of 161 habitable buildings.
- The study area incorporates an extensive stormwater system as well as a number of culverts. The results of a blockage sensitivity analysis show that the severity of flooding can be significantly increased due to blockage. This highlights the importance of routine maintenance on this infrastructure, particularly immediately after a flood.
- A number of roadways are predicted to be overtopped during the 1% AEP flood. Many of these roadways would be unsafe to drive through for at least 30 minutes.

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Appendix A

BBBC Creek XP-RAFTS Model Review



1 HYDROLOGIC MODEL REVIEW

A review of the XP-RAFS hydrologic models that were developed for the Bow-Bowing Bunbury Curran (BBBC) Creek's flood studies were completed to:

- Identify key model inputs and modelling approaches and carry those same inputs and approaches into the current study to ensure consistency with the BBBC Creeks flood studies, where appropriate.
- Identify where new modelling technology and approaches may be more appropriate for application as part of the current study to ensure it follows modern best practice.

The outcomes of the hydrologic model review are summarised on the following pages. It includes a summary of the review finding for key hydrologic modelling components and recommendations on whether modifications are considered necessary as part of the current study.



ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
GENERAL		
Software and Version	XP-RAFTS: version 2013 Service Pack 2	Consider use of newer version of RAFTS (2018.1.1). It should also be noted that the XP-RAFTS software is no longer supported by Innovyze. However, this will not prevent use of the software as part of the current study.
Terminology	Average Recurrence Interval (ARI) used throughout modelling	ARR2019 suggests adopting modified terminology when referring to design events (as documented in Section 2.2.5 of Chapter 2 of Book 1). It is recommended that the ARR2019 terminology is adopted for the current study.
MODEL SETUP		
Subcatchment Delineation	- CatchmentSIM used to delineate subcatchments 2 metre DEM used, which is considered adequate to capture roadway centrelines and major urban topographic features - Typical subcatchment size of 1-1.5 km² in urban areas which is sufficiently detailed to capture major urban overland flow paths. Larger subcatchments of 2-3 km² were typically adopted in less urbanised areas. - Subcatchment outlets includes at major hydraulic controls such as roadways, and flow path confluences	Subcatchments appear to be suitably detailed for an urban overland flow study. No changes necessary.
Subcatchment Slope	CatchmentSIM used to assign average vectored slope to subcatchments based on underlying DEM	No changes necessary.
Impervious Areas	Pervious and impervious areas defined using Council LEP zoning information	Adopted approach provide a conservative estimate of impervious areas. Although this does not necessarily

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	- Imperviousness assumes full development to the extent possible under the current zoning - Separate impervious and pervious sub-areas applied to each subcatchment to allow differing roughness and losses to be applied	reflect current conditions, it does assist in “future proofing” the study. ARR2019 places greater emphasis on effective impervious areas rather than total impervious areas adopted as part of the BBC Creek flood studies. Consideration should be given to breaking up each subcatchment into pervious, indirectly connected impervious and directly connected impervious areas.
Hydrologic Roughness	- Hydrologic roughness defined based on Council LEP zonings. - Hydrologic roughness parameters are considered reasonable for application for the various land uses defined	No changes necessary.
Link Parameterisation	CatchmentSIM used to calculate time delay link lags based on modified Bransby Williams equation	No changes necessary.
Detention Basins	- Formal detention basins included with stage-storage and stage-discharge relationships - Farm dams assumed to be full and not contribute any storage or attenuation	- No changes considered necessary. - No farm dams located within study area, no not applicable.
DESIGN STORM SIMULATIONS		
Design Rainfall Estimates	Design rainfall IFDs has been adopted as per Campbelltown City Council guidelines for the two relevant rainfall zones, “Campbelltown” and “Glenfield”.	IFD values appropriate for application as per ARR1987 guideline. However, revised design rainfall estimates have been published by the BoM and offer improved rainfall estimates based on ~30 years of additional rainfall

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	- Design rainfall for the PMP has been calculated based on the BOM published GSDM approach. Separate PMP calculations were completed based on PMP storm centred on the BBBC catchment area, as well as each local study area. - Design events considered include: 5, 20, 50, 100, 500, 1000 ARI events, and PMF	records. New design rainfall estimates should be adopted as part of the current study.
Rainfall Losses	- The initial-continuing loss model was adopted which is recommended in both ARR1987 and ARR2019 - Initial losses: - For events equal to or <u>more frequent than 1%AEP</u>, initial rainfall loss of 15mm applied to pervious areas and an initial loss of 1mm applied to impervious areas. - For events <u>less frequent than 1%AEP event</u>) initial loss of 0mm applied to pervious and impervious surfaces - Continuing loss rate: - Pervious areas: 2.5mm/hr - Impervious areas: 0 mm/hr	- Adopted loss approach consistent with ARR1987. And impervious losses are considered to be generally appropriate. However, ARR2019 requires application of probability neutral burst losses from the ARR data hub for pervious surfaces for each storm. It is recommended that the updated ARR2019 losses are applied as part of the current study . - It is recommended that specific losses for indirectly connected impervious areas are adopted in addition to directly connected impervious areas and pervious areas as per <i>ARR2019</i>. - Data hub continuing loss rate of 0.96mm/hr should be adopted for pervious surfaces. in preference to 2.5mm/hr unless calibration/validation demonstrates a high loss rate is more suitable.
Temporal Patterns/Critical Duration	- Temporal patterns defined as per ARR1987 (i.e., two sets of temporal patterns for <30 year ARI and > 30 year ARI) - The GSDM PMP temporal pattern was adopted to define temporal distribution of rainfall for PMP - Critical duration calculated as the storm duration generating the highest peak discharge	If procedures from ARR2019 are adopted, point temporal patterns from the ARR data hub should be adopted. Ensemble bins of at least 10 temporal patterns are provided for each storm frequency and duration.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
		• Critical duration calculated as the duration that produces the highest average discharges based on consideration of the 10 temporal pattern for each AEP/duration. • Representative temporal patterns are then selected for each critical duration. The representative temporal pattern is selected as the temporal pattern that produces a peak discharge very close to/slightly above the average or median peak discharge.
Aerial Reduction Factors	• No aerial reduction factors were applied	• No changes considered necessary as overland flooding is a key focus (i.e., contributing catchment areas generally do exceed 1 km²).

Appendix B

BBBC Creek TUFLOW Model Review



1 HYDRAULIC MODEL REVIEW

A review of the TUFLOW hydraulic models that were developed for the various Bow-Bowing Bunbury Curran (BBBC) Creek's flood studies were completed to identify key model attributes and approaches that could be carried forward into the current study. At the same time, the review also identified areas where new modelling approaches and technologies may afford improved estimates of flood behaviour.

The outcomes of the hydraulic model review are summarised on the following pages. It includes a summary of the review finding for key hydrologic modelling components and recommendations on whether modifications are considered necessary as part of the current study. It should be noted that the review is general in nature and aims to identify features that are consistent to all models developed as part of the BBBC Creek flood studies.



ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
GENERAL		
Software and Version	- TUFLOW 2016-04-AD-Dev-iSP-w64 - Classic Solution Scheme	More recent releases of TUFLOW are available that provide a range of improvements including HPC which affords improved simulation times and sub-grid sampling (SGS) which provides more detailed description of floodplain storage and flow conveyance.
MODEL SETUP		
TUFLOW Control and other files	- Folder structure is in accordance with the TUFLOW User Manual 2018-03. - Run files include *.tcf, *.ecf, *.tgc and *.tbc. - A *.tef defining the events, storm durations - A *.tmf is included to assign land use roughness	Control and output files follow recommended format/layout. If ARR2019 is adopted for use, an additional *.trd file may be required to define the variable initial losses, temporal patterns with storm durations.
Timestep	- Timesteps specified in *.ecf and *.tcf files 2D Model timestep = 0.5 seconds. 1D Timestep = 0.25 seconds - All timesteps suitable for adopted grid size of 2m	No changes necessary. Although TUFLOW HPC incorporates adaptive timestep feature which can be beneficial when simulating large floods where instabilities can be a problem.
MODEL CONFIGURATION		
Model Configuration (1D, 2D or 1D/2D?)	1D/2D - o Broader catchment represented in 2D	No changes necessary. Although new SGS feature may allow a 2D representation of creeks.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	- o 1D representation of major creek channels - o 1D stormwater network - o 1D culverts and bridges	
2D Grid Size	2 metre grid size which is considered appropriate for an urban catchment	No changes necessary.
EXTENT OF MODEL		
2D Model Extent	Active 2D domain extent set by 2d_code layer covering entire catchment	No changes necessary.
1D Model Extent	1d stormwater network, bridges, culverts, and major open channels.	No changes necessary.
BASE TERRAIN DATA (2D)		
Source of DEM data	DEM developed from LiDAR collected in 2011	More recent LiDAR datasets (e.g., 2019) are available to more reliably define contemporary topographic conditions.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
Supplementary data (e.g., additional survey data acquired for the project, changes to terrain due to roadworks, development, etc) Improved definition of gullies and ridges	2d_zshp layers included to modify terrain in areas where underground car parks or temporarily excavated areas occur (ie: removing an otherwise localised trapped low point) 2d_zshp layer included to enforce natural low points around some culvert/stormwater headwalls and retention basins 2d_zshp features added along minor swales to enforce flow paths 2d_zshp features added along key hydraulic features such as road embankments and detention basin walls	No changes necessary.
1D CROSS-SECTION DATA		
Source of cross-section data	Cross section data extracted from a highly detailed, 0.5 metre DEM, with extraction locations chosen based on adequate ground strike data.	No changes necessary. However, as discussed, 2D representation of channels may be appropriate with SGS with a similarly detailed DEM.
1D MODEL CONFIGURATION		
1D model network	1d channels included along major watercourses. - As previously mentioned, 2d_zshp gully lines/points are used for smaller swales and drainage depressions	No changes necessary.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
1D Water Level Lines	1d_wll included to spatially define the 1D results - Water Level Line points subsequently read in to overwrite the automatically created points to enhance display of depth results within the 1d domain, particularly along the edge of the 1d domain	No changes necessary.
HYDRAULIC STRUCTURES		
General	Hydraulic structures included within model as 1d elements, including culverts and bridges.	No changes necessary.
Culverts – Losses	- Entry/exit losses = default 0.5/1.0 - Height/Width contraction loss = 0.6/0.9 - Consistent with TUFLOW default values	No changes necessary.
Bridges - Form Losses	Manually calculated form loss applied to account for losses associated with bridge openings and pier losses	No changes necessary.
Blockage	- Blockage applied to structures (culverts/bridges) based upon Council blockage policy, that is: 50% blockage of pipe culverts with diameter < 3 metres, and rectangular culverts with diagonal dimension < 3 metres	Suggest reviewing Council blockage factors against blockage factors calculated using revised ARR2019 procedures to confirm suitability.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	0 0% blockage of culverts with dimensions exceeding the above dimensions	
💧 STORMWATER NETWORK		
Representation	💧 The TUFLOW model includes a representation of the stormwater drainage system as 1D elements	💧 No changes necessary.
1D/2D Connections	💧 Stormwater pits represented as “Q” type 1D nodes which allow unique inflow relationships developed as part of the BBBC Creek Pit Inlet Database to be applied for different pit types and reflects the variation in pit capacity based on pit attributes such as grate size and lintel length.	💧 No changes necessary.
Blockage	💧 Blockage is accounted for as per Council’s standard blockage factors, viz: - o 20% blockage of on-grade pits, - o 50% blockage of sag pits	💧 Suggest reviewing Council blockage factors against blockage factors calculated using ARR2019 procedures to confirm suitability.
💧 LINKAGES BETWEEN 1D AND 2D DOMAINS		
1D/2D Connections	💧 SX boundary used to connect 1D stormwater network and culverts to the 2D domain. 💧 SX points used for small width 1d elements and SX lines used for wider elements to connect to multiple cells.	💧 No changes necessary.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	HX lines used to connect 1D channels to adjoining 2D domains. 2D cells falling within 1D domain deactivated to ensure conveyance is not “double counted”	
INITIAL CONDITIONS		
Set up appropriate initial conditions for each event to be modelled.	2d IWL set within permanent waterbodies (farm dams) at the level of the spillway - No IWL added to formal detention basins (i.e., all detention basins assumed to be “dry” at start of simulation)	No changes necessary.
BOUNDARY CONDITIONS		
Flow boundary conditions	Inflows to the TUFLOW model have been defined using the various XP-RAFTS models. These are distributed to the surface of stormwater pits (when present within the subcatchment) or to the lowest elevation location within the subcatchment (when stormwater pits are not present)	Applying flows to stormwater pits can results in over-attenuation of flows as a resulting of “double routing” of flows. Suggest applying all flows at lowest point in subcatchment providing subcatchment delineation is suitably detailed (i.e., headwater subcatchments <1km²).
Downstream boundary conditions	2d HT (water level / stage hydrograph) boundaries are applied to the downstream most model (i.e., Glenfield/Macquarie Fields). It was assumed that a flood of equivalent severity was occurring in the Georges River at the same time as the BBBC Creek catchment (e.g., 1% AEP Georges River flood occurring at the same time as a 1% AEP.	Study area is typically well elevated above Georges River, so consideration of Georges River influence not required as part of current study. HQ boundary considered appropriate for the current study.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	2d HQ (Manning's equation boundaries) are utilised where flow continues across land at the downstream boundary location (where a downstream boundary exists away from the river).	
FLOW OBSTRUCTIONS		
Buildings	- Buildings have been included in the model using a 2d_zshp layer which elevates the building footprint by 0.3 metres above the LiDAR derived DEM elevation. This provides a 100% blockage for depths up to 0.3 metres around the building. Although appropriate for the "older" sections of the LGA, most buildings within the Southern Catchments area comprise floor levels that are elevated only 0.15m above ground level. Therefore, building representation should be updated to better reflect local conditions - A Manning's "n" value of 1.0 has been adopted for building footprints which is intended to reflect the ability for water to enter buildings once the water depths exceed 0.3m but still reflect the significant impediment to flow afforded by walls, doors etc. but considered appropriate to reflect the significant impediment to flow afforded by buildings, but still account for storage of flood water within buildings, if depths were to exceed 0.3 metres around the building.	Elevations within building footprints to be elevated by 0.15m rather than 0.3m to better reflect local catchment conditions.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
Fences	Fences are included in the model as a layered flow constriction layer to represent the impediment to flow afforded and better represent localised impacts. All fences were assumed to be 0.5m high and afforded 75% blockage. A form loss coefficient of 0.2 was included to represent hydraulic losses as water is forced through fence openings	No changes necessary.
MODEL PARAMETERS		
Roughness (Manning's 'n') values for 1d channels	Roughness has been applied to 1D cross-sections via a materials ID. This allows the roughness to be varied laterally.	No changes necessary.
Roughness (Manning's 'n') values assigned in 2d material layers	- A default material type reflecting grass (Manning's 'n' = 0.035) is applied - Material types are then modified using the same LEP zoning polygons used to parameterise the hydrologic model. - A number of additional GIS layers are read in to provide greater detail or alterations where necessary, such as concrete channels and car parks - Twelve (12) roughness (Manning's n) values are assigned within the 2D domain: - Buildings (n = 1.00) - Rural (n = 0.050) - Industrial (n = 0.025) - Open Space (n = 0.030)	Additional detail required to better delineate between parking spots and internal access roads and the differing impediment to flow across car parking areas.

ITEM	REVIEW OBSERVATIONS	RECOMMENDED CHANGES
	- o Trees (n = 0.060) - o Dense Trees (n = 0.080) - o Waterbodies (n = 0.040) - o Carparks (n = 0.100, depth varying) - o Concrete (n = 0.015) - o Rock (n = 0.040) - o Area Under Construction (new release areas) (n = 0.022) - o Roads (n = 0.020) 💧 A review of the carpark roughness indicates it is likely over-stating roughness in areas where cars would not be parked. Therefore, additional detail required to delineate between parking spots and internal access roads	



Appendix C

XP-RAFTS Model Inputs



XP-RAFTS INPUT PARAMETERS - Southern Catchments

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
1.01	1	0.59	2.48	0	0.030
1.01	2	1.30	2.48	100	0.015
1.02	1	0.18	2.47	0	0.030
1.02	2	0.88	2.47	100	0.015
1.03	1	0.09	3.30	0	0.030
1.03	2	0.63	3.30	100	0.015
1.04	1	0.38	4.20	0	0.030
1.04	2	1.88	4.20	100	0.015
1.05	1	0.23	2.50	0	0.030
1.05	2	1.05	2.50	100	0.015
1.06	1	0.14	3.14	0	0.030
1.06	2	0.69	3.14	100	0.015
1.07	1	0.06	2.75	0	0.030
1.07	2	0.40	2.75	100	0.015
1.08	1	3.20	1.68	0	0.030
1.08	2	2.17	1.68	100	0.015
1.09	1	0.46	4.35	0	0.030
1.09	2	1.56	4.35	100	0.015
1.10	1	0.21	4.33	0	0.030
1.10	2	0.95	4.33	100	0.015
1.11	1	0.17	1.95	0	0.030
1.11	2	0.48	1.95	100	0.015
1.12	1	0.07	3.42	0	0.030
1.12	2	0.18	3.42	100	0.015
1.13	1	0.13	2.58	0	0.030
1.13	2	0.35	2.58	100	0.015
1.14	1	0.33	7.79	0	0.030
1.14	2	0.77	7.79	100	0.015
1.15	1	0.07	0.65	0	0.030
1.15	2	0.38	0.65	100	0.015
1.16	1	0.77	4.64	0	0.030
1.16	2	0.90	4.64	100	0.015
1.17	1	0.72	2.52	0	0.030
1.17	2	0.54	2.52	100	0.015
1.18	1	1.77	2.00	0	0.030
1.18	2	0.76	2.00	100	0.015
1.19	1	3.09	1.84	0	0.030
1.19	2	1.94	1.84	100	0.015
1.20	1	2.43	2.87	0	0.030
1.20	2	1.20	2.87	100	0.015
1.21	1	0.51	3.20	0	0.030
1.21	2	1.73	3.20	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
1.22	1	0.69	0.10	0	0.030
1.22	2	2.18	0.10	100	0.015
1.23	1	0.56	4.10	0	0.030
1.23	2	1.16	4.10	100	0.015
1.24	1	0.28	4.65	0	0.030
1.24	2	2.03	4.65	100	0.015
1.25	1	0.43	7.26	0	0.030
1.25	2	1.93	7.26	100	0.015
1.26	1	0.79	7.82	0	0.030
1.26	2	0.93	7.82	100	0.015
1.27	1	2.56	4.99	0	0.030
1.27	2	0.46	4.99	100	0.015
1.28	1	2.11	6.30	0	0.030
1.28	2	0.14	6.30	100	0.015
1.29	1	1.97	8.61	0	0.030
1.29	2	0.11	8.61	100	0.015
1.30	1	3.04	14.63	0	0.030
1.30	2	0.58	14.63	100	0.015
1.31	1	3.57	11.96	0	0.030
1.31	2	0.71	11.96	100	0.015
1.32	1	1.77	18.46	0	0.030
1.32	2	0.69	18.46	100	0.015
1.33	1	5.07	11.45	0	0.030
1.33	2	0.49	11.45	100	0.015
1.34	1	2.58	19.31	0	0.030
1.34	2	2.28	19.31	100	0.015
1.35	1	4.16	16.06	0	0.030
1.35	2	0.71	16.06	100	0.015
1.36	1	2.99	17.62	0	0.030
1.36	2	0.33	17.62	100	0.015
2.01	1	0.48	4.08	0	0.030
2.01	2	0.69	4.08	100	0.015
3.01	1	0.53	4.61	0	0.030
3.01	2	0.69	4.61	100	0.015
3.02	1	0.32	4.11	0	0.030
3.02	2	1.12	4.11	100	0.015
4.01	1	0.99	5.80	0	0.030
4.01	2	0.54	5.80	100	0.015
5.01	1	0.26	5.89	0	0.030
5.01	2	0.68	5.89	100	0.015
6.01	1	0.14	4.27	0	0.030
6.01	2	0.93	4.27	100	0.015
7.01	1	0.52	4.05	0	0.030
7.01	2	1.21	4.05	100	0.015
8.01	1	0.42	4.50	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
8.01	2	1.01	4.50	100	0.015
8.02	1	0.42	4.49	0	0.030
8.02	2	1.68	4.49	100	0.015
8.03	1	0.31	3.71	0	0.030
8.03	2	1.42	3.71	100	0.015
8.04	1	0.30	4.04	0	0.030
8.04	2	0.44	4.04	100	0.015
8.05	1	0.41	3.72	0	0.030
8.05	2	1.64	3.72	100	0.015
8.06	1	0.22	1.33	0	0.030
8.06	2	0.94	1.33	100	0.015
9.01	1	0.22	3.96	0	0.030
9.01	2	0.96	3.96	100	0.015
10.01	1	0.31	5.12	0	0.030
10.01	2	1.31	5.12	100	0.015
11.01	1	0.18	7.40	0	0.030
11.01	2	0.80	7.40	100	0.015
12.01	1	0.24	4.40	0	0.030
12.01	2	0.93	4.40	100	0.015
12.02	1	0.09	2.67	0	0.030
12.02	2	0.71	2.67	100	0.015
12.03	1	0.33	3.11	0	0.030
12.03	2	1.58	3.11	100	0.015
12.04	1	0.20	2.97	0	0.030
12.04	2	0.97	2.97	100	0.015
13.01	1	0.20	3.88	0	0.030
13.01	2	0.86	3.88	100	0.015
14.01	1	0.30	4.26	0	0.030
14.01	2	1.52	4.26	100	0.015
14.02	1	0.19	4.36	0	0.030
14.02	2	0.98	4.36	100	0.015
14.03	1	0.18	3.21	0	0.030
14.03	2	0.82	3.21	100	0.015
15.01	1	0.33	2.44	0	0.030
15.01	2	1.62	2.44	100	0.015
15.02	1	0.15	1.33	0	0.030
15.02	2	0.56	1.33	100	0.015
15.03	1	0.08	1.40	0	0.030
15.03	2	0.33	1.40	100	0.015
16.01	1	0.21	3.96	0	0.030
16.01	2	1.00	3.96	100	0.015
17.01	1	0.18	3.30	0	0.030
17.01	2	0.88	3.30	100	0.015
17.02	1	0.15	2.72	0	0.030
17.02	2	0.75	2.72	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
17.03	1	0.25	6.75	0	0.030
17.03	2	1.11	6.75	100	0.015
17.04	1	0.19	6.00	0	0.030
17.04	2	0.85	6.00	100	0.015
17.05	1	0.37	5.97	0	0.030
17.05	2	1.72	5.97	100	0.015
17.06	1	0.19	3.68	0	0.030
17.06	2	0.94	3.68	100	0.015
17.07	1	0.21	3.58	0	0.030
17.07	2	1.07	3.58	100	0.015
18.01	1	0.22	7.52	0	0.030
18.01	2	0.95	7.52	100	0.015
18.02	1	0.14	8.27	0	0.030
18.02	2	0.65	8.27	100	0.015
19.01	1	0.24	9.22	0	0.030
19.01	2	0.54	9.22	100	0.015
20.01	1	0.16	6.66	0	0.030
20.01	2	0.75	6.66	100	0.015
21.01	1	0.21	6.00	0	0.030
21.01	2	1.08	6.00	100	0.015
22.01	1	0.13	5.02	0	0.030
22.01	2	0.60	5.02	100	0.015
23.01	1	0.15	5.93	0	0.030
23.01	2	0.79	5.93	100	0.015
23.02	1	0.20	4.99	0	0.030
23.02	2	1.04	4.99	100	0.015
23.03	1	0.15	1.63	0	0.030
23.03	2	0.69	1.63	100	0.015
24.01	1	0.14	5.24	0	0.030
24.01	2	0.69	5.24	100	0.015
25.01	1	0.41	5.97	0	0.030
25.01	2	2.12	5.97	100	0.015
25.02	1	0.23	5.79	0	0.030
25.02	2	1.06	5.79	100	0.015
25.03	1	0.07	3.07	0	0.030
25.03	2	0.34	3.07	100	0.015
25.04	1	0.23	2.99	0	0.030
25.04	2	1.09	2.99	100	0.015
26.01	1	0.15	5.35	0	0.030
26.01	2	0.64	5.35	100	0.015
27.01	1	0.35	4.15	0	0.030
27.01	2	0.64	4.15	100	0.015
28.01	1	0.98	4.61	0	0.030
28.01	2	0.12	4.61	100	0.015
28.02	1	0.27	7.37	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
28.02	2	0.96	7.37	100	0.015
28.03	1	0.15	5.72	0	0.030
28.03	2	0.72	5.72	100	0.015
28.04	1	0.10	4.22	0	0.030
28.04	2	0.44	4.22	100	0.015
29.01	1	0.13	5.22	0	0.030
29.01	2	0.64	5.22	100	0.015
29.02	1	0.27	2.65	0	0.030
29.02	2	1.27	2.65	100	0.015
30.01	1	0.23	4.84	0	0.030
30.01	2	1.15	4.84	100	0.015
30.02	1	0.22	5.32	0	0.030
30.02	2	1.08	5.32	100	0.015
30.03	1	0.20	3.35	0	0.030
30.03	2	0.92	3.35	100	0.015
30.04	1	0.19	2.69	0	0.030
30.04	2	0.88	2.69	100	0.015
31.01	1	0.34	7.72	0	0.030
31.01	2	0.72	7.72	100	0.015
31.02	1	0.25	4.32	0	0.030
31.02	2	0.94	4.32	100	0.015
32.01	1	0.90	8.54	0	0.030
32.01	2	0.27	8.54	100	0.015
32.02	1	0.32	5.16	0	0.030
32.02	2	0.28	5.16	100	0.015
33.01	1	0.20	5.50	0	0.030
33.01	2	0.96	5.50	100	0.015
33.02	1	0.30	3.73	0	0.030
33.02	2	1.43	3.73	100	0.015
34.01	1	0.24	9.67	0	0.030
34.01	2	0.72	9.67	100	0.015
34.02	1	0.35	8.54	0	0.030
34.02	2	0.72	8.54	100	0.015
34.03	1	0.06	5.01	0	0.030
34.03	2	0.36	5.01	100	0.015
35.01	1	0.08	4.12	0	0.030
35.01	2	0.70	4.12	100	0.015
35.02	1	0.14	2.27	0	0.030
35.02	2	1.40	2.27	100	0.015
35.03	1	0.04	2.22	0	0.030
35.03	2	1.31	2.22	100	0.015
35.04	1	0.02	1.93	0	0.030
35.04	2	0.27	1.93	100	0.015
36.01	1	0.36	4.20	0	0.030
36.01	2	1.48	4.20	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
36.02	1	0.27	5.73	0	0.030
36.02	2	1.17	5.73	100	0.015
37.01	1	0.13	4.88	0	0.030
37.01	2	0.56	4.88	100	0.015
37.02	1	0.08	3.08	0	0.030
37.02	2	0.42	3.08	100	0.015
38.01	1	0.16	6.54	0	0.030
38.01	2	0.65	6.54	100	0.015
39.01	1	0.09	3.23	0	0.030
39.01	2	0.38	3.23	100	0.015
40.01	1	0.09	2.00	0	0.030
40.01	2	0.94	2.00	100	0.015
41.01	1	0.07	3.57	0	0.030
41.01	2	0.59	3.57	100	0.015
42.01	1	0.23	3.36	0	0.030
42.01	2	2.07	3.36	100	0.015
43.01	1	0.03	2.76	0	0.030
43.01	2	0.44	2.76	100	0.015
44.01	1	0.29	3.94	0	0.030
44.01	2	1.39	3.94	100	0.015
44.02	1	0.18	4.82	0	0.030
44.02	2	0.97	4.82	100	0.015
44.03	1	0.21	5.24	0	0.030
44.03	2	0.89	5.24	100	0.015
44.04	1	0.14	4.73	0	0.030
44.04	2	0.70	4.73	100	0.015
44.05	1	0.32	5.43	0	0.030
44.05	2	1.43	5.43	100	0.015
44.06	1	0.38	3.28	0	0.030
44.06	2	0.77	3.28	100	0.015
44.07	1	0.46	6.40	0	0.030
44.07	2	0.66	6.40	100	0.015
44.08	1	0.27	4.50	0	0.030
44.08	2	0.59	4.50	100	0.015
44.09	1	0.83	1.59	0	0.030
44.09	2	0.26	1.59	100	0.015
44.10	1	1.93	0.10	0	0.030
44.10	2	0.57	0.10	100	0.015
44.11	1	1.04	2.70	0	0.030
44.11	2	0.79	2.70	100	0.015
44.12	1	0.73	2.91	0	0.030
44.12	2	0.60	2.91	100	0.015
44.13	1	1.19	2.84	0	0.030
44.13	2	0.99	2.84	100	0.015
44.14	1	1.34	2.41	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
44.14	2	0.98	2.41	100	0.015
44.15	1	2.79	0.36	0	0.030
44.15	2	1.31	0.36	100	0.015
44.16	1	0.47	1.57	0	0.030
44.16	2	0.16	1.57	100	0.015
44.17	1	1.06	0.10	0	0.030
44.17	2	1.22	0.10	100	0.015
44.18	1	0.85	1.21	0	0.030
44.18	2	1.11	1.21	100	0.015
44.19	1	0.30	2.43	0	0.030
44.19	2	0.32	2.43	100	0.015
44.20	1	1.61	2.70	0	0.030
44.20	2	0.58	2.70	100	0.015
45.01	1	0.40	4.56	0	0.030
45.01	2	0.98	4.56	100	0.015
46.01	1	0.20	4.46	0	0.030
46.01	2	0.82	4.46	100	0.015
46.02	1	0.15	4.23	0	0.030
46.02	2	0.68	4.23	100	0.015
46.03	1	0.14	2.41	0	0.030
46.03	2	0.83	2.41	100	0.015
46.04	1	0.06	5.16	0	0.030
46.04	2	0.32	5.16	100	0.015
47.01	1	0.30	3.09	0	0.030
47.01	2	1.38	3.09	100	0.015
48.01	1	0.22	3.80	0	0.030
48.01	2	1.02	3.80	100	0.015
48.02	1	0.14	7.67	0	0.030
48.02	2	0.70	7.67	100	0.015
49.01	1	0.22	8.10	0	0.030
49.01	2	1.13	8.10	100	0.015
50.01	1	0.17	9.65	0	0.030
50.01	2	0.36	9.65	100	0.015
51.01	1	0.09	8.06	0	0.030
51.01	2	0.39	8.06	100	0.015
52.01	1	0.07	9.69	0	0.030
52.01	2	0.40	9.69	100	0.015
53.01	1	0.22	4.10	0	0.030
53.01	2	0.98	4.10	100	0.015
53.02	1	0.25	6.62	0	0.030
53.02	2	1.19	6.62	100	0.015
53.03	1	0.09	1.90	0	0.030
53.03	2	0.51	1.90	100	0.015
54.01	1	0.17	5.06	0	0.030
54.01	2	0.79	5.06	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
54.02	1	0.19	6.65	0	0.030
54.02	2	0.84	6.65	100	0.015
55.01	1	0.26	5.68	0	0.030
55.01	2	1.23	5.68	100	0.015
56.01	1	0.19	10.06	0	0.030
56.01	2	0.55	10.06	100	0.015
57.01	1	0.23	8.73	0	0.030
57.01	2	0.36	8.73	100	0.015
58.01	1	0.17	2.03	0	0.030
58.01	2	0.84	2.03	100	0.015
59.01	1	0.35	2.57	0	0.030
59.01	2	1.11	2.57	100	0.015
59.02	1	0.24	5.95	0	0.030
59.02	2	1.14	5.95	100	0.015
59.03	1	0.23	6.16	0	0.030
59.03	2	1.01	6.16	100	0.015
59.04	1	0.21	4.61	0	0.030
59.04	2	0.95	4.61	100	0.015
59.05	1	0.32	5.25	0	0.030
59.05	2	0.94	5.25	100	0.015
59.06	1	0.29	4.77	0	0.030
59.06	2	1.30	4.77	100	0.015
59.07	1	0.67	5.92	0	0.030
59.07	2	0.40	5.92	100	0.015
59.08	1	1.00	3.28	0	0.030
59.08	2	1.65	3.28	100	0.015
59.09	1	0.60	5.71	0	0.030
59.09	2	0.79	5.71	100	0.015
59.10	1	0.75	3.65	0	0.030
59.10	2	1.02	3.65	100	0.015
60.01	1	0.53	5.61	0	0.030
60.01	2	0.61	5.61	100	0.015
60.02	1	0.18	8.41	0	0.030
60.02	2	0.84	8.41	100	0.015
61.01	1	0.77	9.19	0	0.030
61.01	2	1.41	9.19	100	0.015
62.01	1	0.21	7.62	0	0.030
62.01	2	0.94	7.62	100	0.015
63.01	1	0.36	6.92	0	0.030
63.01	2	0.44	6.92	100	0.015
64.01	1	0.14	1.92	0	0.030
64.01	2	0.75	1.92	100	0.015
64.02	1	0.60	5.14	0	0.030
64.02	2	1.87	5.14	100	0.015
64.03	1	0.60	3.94	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
64.03	2	2.35	3.94	100	0.015
64.04	1	0.35	7.19	0	0.030
64.04	2	0.40	7.19	100	0.015
65.01	1	0.14	1.70	0	0.030
65.01	2	0.58	1.70	100	0.015
66.01	1	0.18	8.03	0	0.030
66.01	2	0.42	8.03	100	0.015
66.02	1	0.74	5.57	0	0.030
66.02	2	0.39	5.57	100	0.015
67.01	1	0.15	5.28	0	0.030
67.01	2	0.80	5.28	100	0.015
68.01	1	0.23	6.06	0	0.030
68.01	2	1.09	6.06	100	0.015
68.02	1	0.20	5.92	0	0.030
68.02	2	1.16	5.92	100	0.015
68.03	1	0.14	5.59	0	0.030
68.03	2	0.89	5.59	100	0.015
69.01	1	0.12	5.11	0	0.030
69.01	2	0.95	5.11	100	0.015
70.01	1	0.17	9.28	0	0.030
70.01	2	0.86	9.28	100	0.015
70.02	1	0.14	2.86	0	0.030
70.02	2	0.59	2.86	100	0.015
71.01	1	0.24	4.93	0	0.030
71.01	2	1.09	4.93	100	0.015
71.02	1	0.27	4.90	0	0.030
71.02	2	1.16	4.90	100	0.015
72.01	1	0.24	4.85	0	0.030
72.01	2	1.18	4.85	100	0.015
73.01	1	0.25	3.54	0	0.030
73.01	2	0.96	3.54	100	0.015
74.01	1	0.23	3.93	0	0.030
74.01	2	1.11	3.93	100	0.015
75.01	1	0.32	7.66	0	0.030
75.01	2	0.60	7.66	100	0.015
75.02	1	0.39	6.19	0	0.030
75.02	2	1.24	6.19	100	0.015
75.03	1	0.31	5.82	0	0.030
75.03	2	1.46	5.82	100	0.015
75.04	1	0.06	1.47	0	0.030
75.04	2	0.33	1.47	100	0.015
76.01	1	0.69	7.84	0	0.030
76.01	2	0.67	7.84	100	0.015
77.01	1	0.28	4.57	0	0.030
77.01	2	1.30	4.57	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
77.02	1	0.12	6.57	0	0.030
77.02	2	0.66	6.57	100	0.015
77.03	1	0.21	4.74	0	0.030
77.03	2	0.94	4.74	100	0.015
78.01	1	0.26	4.41	0	0.030
78.01	2	1.23	4.41	100	0.015
79.01	1	0.41	1.26	0	0.030
79.01	2	1.45	1.26	100	0.015
79.02	1	0.30	0.49	0	0.030
79.02	2	1.33	0.49	100	0.015
79.03	1	0.12	2.80	0	0.030
79.03	2	0.56	2.80	100	0.015
80.01	1	0.27	6.07	0	0.030
80.01	2	1.27	6.07	100	0.015
80.02	1	0.29	4.85	0	0.030
80.02	2	1.47	4.85	100	0.015
81.01	1	0.36	7.42	0	0.030
81.01	2	0.91	7.42	100	0.015
81.02	1	0.20	6.38	0	0.030
81.02	2	0.85	6.38	100	0.015
82.01	1	0.27	5.15	0	0.030
82.01	2	1.13	5.15	100	0.015
83.01	1	0.18	3.30	0	0.030
83.01	2	0.72	3.30	100	0.015
84.01	1	0.30	6.11	0	0.030
84.01	2	1.05	6.11	100	0.015
84.02	1	0.22	5.03	0	0.030
84.02	2	1.02	5.03	100	0.015
84.03	1	0.21	5.06	0	0.030
84.03	2	0.92	5.06	100	0.015
84.04	1	0.14	3.54	0	0.030
84.04	2	0.71	3.54	100	0.015
84.05	1	0.23	4.91	0	0.030
84.05	2	1.11	4.91	100	0.015
84.06	1	0.17	3.12	0	0.030
84.06	2	0.78	3.12	100	0.015
85.01	1	0.13	7.23	0	0.030
85.01	2	0.66	7.23	100	0.015
86.01	1	0.22	3.18	0	0.030
86.01	2	1.03	3.18	100	0.015
86.02	1	0.93	0.96	0	0.030
86.02	2	1.04	0.96	100	0.015
87.01	1	0.30	4.24	0	0.030
87.01	2	1.50	4.24	100	0.015
87.02	1	0.25	3.02	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
87.02	2	1.20	3.02	100	0.015
88.01	1	0.17	2.94	0	0.030
88.01	2	0.67	2.94	100	0.015
88.02	1	0.30	1.41	0	0.030
88.02	2	0.49	1.41	100	0.015
89.01	1	0.15	1.98	0	0.030
89.01	2	0.76	1.98	100	0.015
89.02	1	0.08	3.91	0	0.030
89.02	2	0.08	3.91	100	0.015
90.01	1	0.08	1.10	0	0.030
90.01	2	0.31	1.10	100	0.015
91.01	1	0.10	4.07	0	0.030
91.01	2	0.87	4.07	100	0.015
91.02	1	0.11	3.91	0	0.030
91.02	2	1.08	3.91	100	0.015
92.01	1	0.31	5.11	0	0.030
92.01	2	0.83	5.11	100	0.015
92.02	1	0.67	3.50	0	0.030
92.02	2	1.72	3.50	100	0.015
93.01	1	0.35	4.22	0	0.030
93.01	2	0.82	4.22	100	0.015
94.01	1	0.16	5.36	0	0.030
94.01	2	1.03	5.36	100	0.015
94.02	1	0.18	3.64	0	0.030
94.02	2	1.62	3.64	100	0.015
95.01	1	0.07	4.28	0	0.030
95.01	2	0.61	4.28	100	0.015
95.02	1	0.03	5.21	0	0.030
95.02	2	0.24	5.21	100	0.015
96.01	1	0.10	4.59	0	0.030
96.01	2	0.68	4.59	100	0.015
97.01	1	0.05	2.23	0	0.030
97.01	2	0.47	2.23	100	0.015
97.02	1	0.37	1.50	0	0.030
97.02	2	1.74	1.50	100	0.015
98.01	1	0.19	2.78	0	0.030
98.01	2	0.81	2.78	100	0.015
99.01	1	0.14	6.30	0	0.030
99.01	2	0.77	6.30	100	0.015
99.02	1	0.29	7.66	0	0.030
99.02	2	1.50	7.66	100	0.015
99.03	1	0.37	5.60	0	0.030
99.03	2	1.73	5.60	100	0.015
99.04	1	0.63	2.43	0	0.030
99.04	2	0.79	2.43	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
100.01	1	1.22	5.27	0	0.030
100.01	2	0.56	5.27	100	0.015
100.02	1	0.97	3.05	0	0.030
100.02	2	0.56	3.05	100	0.015
101.01	1	0.51	8.23	0	0.030
101.01	2	1.57	8.23	100	0.015
101.02	1	0.36	5.06	0	0.030
101.02	2	1.40	5.06	100	0.015
102.01	1	0.25	4.61	0	0.030
102.01	2	1.28	4.61	100	0.015
102.02	1	0.18	2.37	0	0.030
102.02	2	0.88	2.37	100	0.015
103.01	1	0.15	7.12	0	0.030
103.01	2	0.85	7.12	100	0.015
103.02	1	0.32	6.76	0	0.030
103.02	2	1.56	6.76	100	0.015
104.01	1	0.15	8.00	0	0.030
104.01	2	0.76	8.00	100	0.015
105.01	1	0.18	7.86	0	0.030
105.01	2	0.81	7.86	100	0.015
105.02	1	0.27	6.90	0	0.030
105.02	2	1.25	6.90	100	0.015
105.03	1	0.23	5.32	0	0.030
105.03	2	1.15	5.32	100	0.015
105.04	1	0.22	5.86	0	0.030
105.04	2	1.07	5.86	100	0.015
105.05	1	0.63	5.70	0	0.030
105.05	2	0.25	5.70	100	0.015
105.06	1	1.32	4.51	0	0.030
105.06	2	0.22	4.51	100	0.015
105.07	1	0.10	2.73	0	0.030
105.07	2	0.42	2.73	100	0.015
105.08	1	0.14	2.54	0	0.030
105.08	2	0.75	2.54	100	0.015
105.09	1	0.15	2.10	0	0.030
105.09	2	0.78	2.10	100	0.015
106.01	1	0.12	5.75	0	0.030
106.01	2	0.59	5.75	100	0.015
107.01	1	0.23	9.22	0	0.030
107.01	2	1.03	9.22	100	0.015
108.01	1	0.13	4.48	0	0.030
108.01	2	0.76	4.48	100	0.015
109.01	1	0.22	4.97	0	0.030
109.01	2	0.98	4.97	100	0.015
110.01	1	0.20	3.21	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
110.01	2	0.92	3.21	100	0.015
110.02	1	0.37	4.37	0	0.030
110.02	2	1.32	4.37	100	0.015
110.03	1	0.10	3.57	0	0.030
110.03	2	0.20	3.57	100	0.015
111.01	1	0.98	5.28	0	0.030
111.01	2	0.19	5.28	100	0.015
112.01	1	0.35	2.72	0	0.030
112.01	2	1.60	2.72	100	0.015
113.01	1	0.14	4.49	0	0.030
113.01	2	0.55	4.49	100	0.015
113.02	1	0.55	3.53	0	0.030
113.02	2	1.34	3.53	100	0.015
114.01	1	0.46	2.90	0	0.030
114.01	2	0.97	2.90	100	0.015
114.02	1	0.13	3.92	0	0.03
114.02	2	0.69	3.92	100	0.015
114.03	1	0.05	2.72	0	0.030
114.03	2	0.32	2.72	100	0.015
115.01	1	0.20	3.10	0	0.030
115.01	2	0.89	3.10	100	0.015
115.02	1	0.14	4.02	0	0.030
115.02	2	0.64	4.02	100	0.015
116.01	1	0.20	2.68	0	0.030
116.01	2	0.89	2.68	100	0.015
116.02	1	0.14	2.57	0	0.030
116.02	2	0.64	2.57	100	0.015
117.01	1	0.12	3.73	0	0.030
117.01	2	0.51	3.73	100	0.015
118.01	1	0.50	2.52	0	0.030
118.01	2	0.79	2.52	100	0.015
119.01	1	0.38	2.57	0	0.030
119.01	2	1.82	2.57	100	0.015
119.02	1	0.21	3.14	0	0.030
119.02	2	1.02	3.14	100	0.015
120.01	1	0.17	3.70	0	0.030
120.01	2	0.77	3.70	100	0.015
121.01	1	0.24	3.48	0	0.030
121.01	2	0.97	3.48	100	0.015
122.01	1	0.68	3.58	0	0.030
122.01	2	1.09	3.58	100	0.015
122.02	1	0.24	3.53	0	0.030
122.02	2	1.07	3.53	100	0.015
122.03	1	0.25	16.01	0	0.030
122.03	2	0.91	16.01	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
123.01	1	0.10	1.66	0	0.030
123.01	2	0.85	1.66	100	0.015
123.02	1	0.33	4.32	0	0.030
123.02	2	1.61	4.32	100	0.015
123.03	1	0.61	2.55	0	0.030
123.03	2	2.85	2.55	100	0.015
123.04	1	0.11	0.92	0	0.030
123.04	2	0.42	0.92	100	0.015
123.05	1	0.69	4.04	0	0.030
123.05	2	2.39	4.04	100	0.015
123.06	1	0.23	10.01	0	0.030
123.06	2	1.04	10.01	100	0.015
123.07	1	1.71	9.39	0	0.030
123.07	2	1.52	9.39	100	0.015
124.01	1	1.29	3.23	0	0.030
124.01	2	0.63	3.23	100	0.015
124.02	1	0.25	2.72	0	0.030
124.02	2	1.22	2.72	100	0.015
125.01	1	1.84	5.09	0	0.030
125.01	2	0.71	5.09	100	0.015
126.01	1	0.15	2.89	0	0.030
126.01	2	0.74	2.89	100	0.015
126.02	1	2.03	3.28	0	0.030
126.02	2	0.64	3.28	100	0.015
126.03	1	1.18	2.76	0	0.030
126.03	2	1.26	2.76	100	0.015
127.01	1	0.69	3.56	0	0.030
127.01	2	1.27	3.56	100	0.015
127.02	1	0.37	3.55	0	0.030
127.02	2	1.31	3.55	100	0.015
128.01	1	1.16	2.87	0	0.030
128.01	2	0.87	2.87	100	0.015
129.01	1	0.39	5.19	0	0.030
129.01	2	0.79	5.19	100	0.015
130.01	1	0.25	3.94	0	0.030
130.01	2	1.28	3.94	100	0.015
131.01	1	0.06	5.90	0	0.030
131.01	2	0.50	5.90	100	0.015
132.01	1	0.18	3.95	0	0.030
132.01	2	0.70	3.95	100	0.015
133.01	1	0.09	2.66	0	0.030
133.01	2	0.52	2.66	100	0.015
134.01	1	0.13	1.81	0	0.030
134.01	2	0.44	1.81	100	0.015
134.02	1	0.54	3.88	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
134.02	2	1.13	3.88	100	0.015
134.03	1	1.22	10.01	0	0.030
134.03	2	1.16	10.01	100	0.015
134.04	1	1.40	10.27	0	0.030
134.04	2	0.59	10.27	100	0.015
135.01	1	0.07	5.14	0	0.030
135.01	2	0.34	5.14	100	0.015
135.02	1	0.37	2.71	0	0.030
135.02	2	1.74	2.71	100	0.015
135.03	1	0.15	5.52	0	0.030
135.03	2	0.70	5.52	100	0.015
135.04	1	0.28	2.88	0	0.030
135.04	2	1.39	2.88	100	0.015
135.05	1	0.25	10.32	0	0.030
135.05	2	1.01	10.32	100	0.015
135.06	1	0.96	20.17	0	0.030
135.06	2	0.37	20.17	100	0.015
136.01	1	0.21	3.66	0	0.030
136.01	2	1.04	3.66	100	0.015
137.01	1	0.22	1.93	0	0.030
137.01	2	1.12	1.93	100	0.015
138.01	1	0.31	1.56	0	0.030
138.01	2	1.39	1.56	100	0.015
139.01	1	0.37	3.26	0	0.030
139.01	2	1.25	3.26	100	0.015
139.02	1	0.06	5.49	0	0.030
139.02	2	0.33	5.49	100	0.015
140.01	1	0.20	2.01	0	0.030
140.01	2	0.91	2.01	100	0.015
141.01	1	1.23	18.19	0	0.030
141.01	2	0.77	18.19	100	0.015
142.01	1	2.90	7.25	0	0.030
142.01	2	1.13	7.25	100	0.015
143.01	1	0.95	1.79	0	0.030
143.01	2	0.72	1.79	100	0.015
143.02	1	3.12	15.97	0	0.030
143.02	2	5.91	15.97	100	0.015
144.01	1	0.44	1.85	0	0.030
144.01	2	1.05	1.85	100	0.015
144.02	1	0.26	2.26	0	0.030
144.02	2	0.47	2.26	100	0.015
144.03	1	0.36	2.49	0	0.030
144.03	2	0.63	2.49	100	0.015
144.04	1	0.93	5.97	0	0.030
144.04	2	1.68	5.97	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
144.05	1	0.91	26.31	0	0.030
144.05	2	0.51	26.31	100	0.015
145.01	1	0.16	1.76	0	0.030
145.01	2	1.41	1.76	100	0.015
145.02	1	0.19	12.60	0	0.030
145.02	2	1.16	12.60	100	0.015
146.01	1	4.10	10.44	0	0.030
146.01	2	0.46	10.44	100	0.015
147.01	1	1.43	16.73	0	0.030
147.01	2	0.39	16.73	100	0.015
147.02	1	0.61	26.90	0	0.030
147.02	2	0.14	26.90	100	0.015
147.03	1	0.61	26.40	0	0.030
147.03	2	0.07	26.40	100	0.015
148.01	1	0.28	7.19	0	0.030
148.01	2	1.04	7.19	100	0.015
148.02	1	1.29	33.96	0	0.030
148.02	2	0.55	33.96	100	0.015
149.01	1	0.57	1.45	0	0.030
149.01	2	0.79	1.45	100	0.015
149.02	1	2.28	32.21	0	0.030
149.02	2	0.26	32.21	100	0.015
150.01	1	0.19	4.10	0	0.030
150.01	2	0.92	4.10	100	0.015
150.02	1	0.22	2.25	0	0.030
150.02	2	1.03	2.25	100	0.015
150.03	1	0.20	3.85	0	0.030
150.03	2	1.09	3.85	100	0.015
150.04	1	0.09	2.46	0	0.030
150.04	2	0.49	2.46	100	0.015
150.05	1	0.11	2.57	0	0.030
150.05	2	0.53	2.57	100	0.015
150.06	1	0.49	2.13	0	0.030
150.06	2	2.37	2.13	100	0.015
150.07	1	0.50	2.83	0	0.030
150.07	2	1.54	2.83	100	0.015
150.08	1	3.18	0.10	0	0.030
150.08	2	1.06	0.10	100	0.015
150.09	1	0.19	0.49	0	0.030
150.09	2	1.46	0.49	100	0.015
150.10	1	0.67	1.49	0	0.030
150.10	2	2.16	1.49	100	0.015
150.11	1	0.45	0.10	0	0.030
150.11	2	1.44	0.10	100	0.015
150.12	1	0.85	1.64	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
150.12	2	0.42	1.64	100	0.015
150.13	1	1.72	2.71	0	0.030
150.13	2	0.35	2.71	100	0.015
150.14	1	0.97	2.04	0	0.030
150.14	2	0.28	2.04	100	0.015
150.15	1	2.34	6.03	0	0.030
150.15	2	1.46	6.03	100	0.015
150.16	1	4.86	13.99	0	0.030
150.16	2	0.54	13.99	100	0.015
150.17	1	6.55	16.67	0	0.030
150.17	2	0.73	16.67	100	0.015
151.01	1	0.23	3.14	0	0.030
151.01	2	1.26	3.14	100	0.015
151.02	1	0.16	2.74	0	0.030
151.02	2	0.79	2.74	100	0.015
152.01	1	0.25	1.93	0	0.030
152.01	2	1.16	1.93	100	0.015
153.01	1	0.20	0.76	0	0.030
153.01	2	0.97	0.76	100	0.015
153.02	1	0.30	1.33	0	0.030
153.02	2	1.43	1.33	100	0.015
154.01	1	0.56	2.37	0	0.030
154.01	2	1.72	2.37	100	0.015
154.02	1	0.25	0.72	0	0.030
154.02	2	1.20	0.72	100	0.015
155.01	1	0.28	6.98	0	0.030
155.01	2	0.56	6.98	100	0.015
155.02	1	0.28	2.65	0	0.030
155.02	2	1.30	2.65	100	0.015
156.01	1	0.16	1.38	0	0.030
156.01	2	0.72	1.38	100	0.015
157.01	1	0.19	1.07	0	0.030
157.01	2	0.87	1.07	100	0.015
158.01	1	0.22	3.28	0	0.030
158.01	2	1.06	3.28	100	0.015
158.02	1	0.08	4.76	0	0.030
158.02	2	0.37	4.76	100	0.015
158.03	1	0.20	2.01	0	0.030
158.03	2	0.97	2.01	100	0.015
158.04	1	0.18	1.15	0	0.030
158.04	2	0.86	1.15	100	0.015
159.01	1	0.19	2.78	0	0.030
159.01	2	0.84	2.78	100	0.015
160.01	1	0.17	4.64	0	0.030
160.01	2	0.80	4.64	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
160.02	1	0.25	3.11	0	0.030
160.02	2	1.16	3.11	100	0.015
161.01	1	0.19	3.53	0	0.030
161.01	2	0.99	3.53	100	0.015
161.02	1	0.22	2.11	0	0.030
161.02	2	1.02	2.11	100	0.015
162.01	1	0.27	1.70	0	0.030
162.01	2	1.25	1.70	100	0.015
163.01	1	0.40	5.11	0	0.030
163.01	2	0.59	5.11	100	0.015
163.02	1	0.15	4.96	0	0.030
163.02	2	0.71	4.96	100	0.015
163.03	1	0.19	2.08	0	0.030
163.03	2	0.97	2.08	100	0.015
163.04	1	0.19	2.52	0	0.030
163.04	2	0.93	2.52	100	0.015
163.05	1	0.33	1.84	0	0.030
163.05	2	1.45	1.84	100	0.015
164.01	1	0.24	1.34	0	0.030
164.01	2	1.10	1.34	100	0.015
165.01	1	0.19	1.32	0	0.030
165.01	2	0.94	1.32	100	0.015
165.02	1	0.14	1.07	0	0.030
165.02	2	0.67	1.07	100	0.015
165.03	1	0.21	1.02	0	0.030
165.03	2	0.77	1.02	100	0.015
165.04	1	0.17	2.02	0	0.030
165.04	2	0.81	2.02	100	0.015
165.05	1	0.26	0.54	0	0.030
165.05	2	1.22	0.54	100	0.015
166.01	1	0.17	1.12	0	0.030
166.01	2	0.86	1.12	100	0.015
167.01	1	0.24	5.85	0	0.030
167.01	2	1.15	5.85	100	0.015
167.02	1	0.20	5.37	0	0.030
167.02	2	1.01	5.37	100	0.015
168.01	1	0.21	2.34	0	0.030
168.01	2	0.98	2.34	100	0.015
169.01	1	0.21	1.16	0	0.030
169.01	2	0.95	1.16	100	0.015
169.02	1	0.32	1.38	0	0.030
169.02	2	0.84	1.38	100	0.015
169.03	1	0.29	0.77	0	0.030
169.03	2	1.42	0.77	100	0.015
170.01	1	0.18	1.71	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
170.01	2	0.83	1.71	100	0.015
171.01	1	0.06	2.41	0	0.030
171.01	2	0.57	2.41	100	0.015
172.01	1	0.16	6.04	0	0.030
172.01	2	1.11	6.04	100	0.015
172.02	1	0.17	1.94	0	0.030
172.02	2	0.90	1.94	100	0.015
173.01	1	2.55	2.25	0	0.030
173.01	2	0.55	2.25	100	0.015
173.02	1	0.87	2.75	0	0.030
173.02	2	1.53	2.75	100	0.015
173.03	1	0.04	2.78	0	0.030
173.03	2	0.34	2.78	100	0.015
173.04	1	0.49	3.27	0	0.030
173.04	2	2.28	3.27	100	0.015
173.05	1	0.25	3.04	0	0.030
173.05	2	1.29	3.04	100	0.015
174.01	1	0.10	2.40	0	0.030
174.01	2	0.73	2.40	100	0.015
175.01	1	0.27	4.03	0	0.030
175.01	2	1.25	4.03	100	0.015
175.02	1	0.30	5.51	0	0.030
175.02	2	1.45	5.51	100	0.015
175.03	1	0.42	2.95	0	0.030
175.03	2	1.71	2.95	100	0.015
175.04	1	0.13	0.92	0	0.030
175.04	2	0.62	0.92	100	0.015
175.05	1	0.23	2.29	0	0.030
175.05	2	0.99	2.29	100	0.015
176.01	1	0.40	2.38	0	0.030
176.01	2	0.50	2.38	100	0.015
177.01	1	0.13	6.08	0	0.030
177.01	2	0.69	6.08	100	0.015
177.02	1	0.28	5.24	0	0.030
177.02	2	1.28	5.24	100	0.015
177.03	1	0.22	2.44	0	0.030
177.03	2	1.13	2.44	100	0.015
177.04	1	0.18	4.11	0	0.030
177.04	2	0.89	4.11	100	0.015
178.01	1	0.35	2.62	0	0.030
178.01	2	1.59	2.62	100	0.015
178.02	1	0.21	4.70	0	0.030
178.02	2	0.92	4.70	100	0.015
179.01	1	0.26	3.87	0	0.030
179.01	2	1.25	3.87	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
180.01	1	0.27	2.49	0	0.030
180.01	2	1.25	2.49	100	0.015
180.02	1	0.44	2.20	0	0.030
180.02	2	0.96	2.20	100	0.015
180.03	1	0.20	3.72	0	0.030
180.03	2	0.95	3.72	100	0.015
180.04	1	0.30	2.44	0	0.030
180.04	2	1.42	2.44	100	0.015
181.01	1	0.52	2.44	0	0.030
181.01	2	0.45	2.44	100	0.015
181.02	1	0.24	3.15	0	0.030
181.02	2	1.40	3.15	100	0.015
181.03	1	0.27	1.94	0	0.030
181.03	2	1.35	1.94	100	0.015
181.04	1	0.06	5.87	0	0.030
181.04	2	0.33	5.87	100	0.015
181.05	1	0.19	3.60	0	0.030
181.05	2	0.88	3.60	100	0.015
181.06	1	0.17	5.80	0	0.030
181.06	2	0.90	5.80	100	0.015
181.07	1	0.13	3.89	0	0.030
181.07	2	0.66	3.89	100	0.015
181.08	1	0.16	2.81	0	0.030
181.08	2	0.77	2.81	100	0.015
182.01	1	0.23	2.64	0	0.030
182.01	2	0.86	2.64	100	0.015
182.02	1	0.20	2.82	0	0.030
182.02	2	0.60	2.82	100	0.015
182.03	1	0.90	2.88	0	0.030
182.03	2	0.83	2.88	100	0.015
183.01	1	0.50	3.02	0	0.030
183.01	2	0.78	3.02	100	0.015
183.02	1	0.23	3.32	0	0.030
183.02	2	1.19	3.32	100	0.015
183.03	1	0.23	4.23	0	0.030
183.03	2	1.15	4.23	100	0.015
183.04	1	0.21	5.39	0	0.030
183.04	2	1.03	5.39	100	0.015
184.01	1	0.63	3.11	0	0.030
184.01	2	2.03	3.11	100	0.015
185.01	1	0.24	3.42	0	0.030
185.01	2	1.18	3.42	100	0.015
185.02	1	0.34	5.57	0	0.030
185.02	2	1.59	5.57	100	0.015
186.01	1	0.11	0.49	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
186.01	2	0.45	0.49	100	0.015
187.01	1	0.24	5.28	0	0.030
187.01	2	1.17	5.28	100	0.015
187.02	1	0.28	2.90	0	0.030
187.02	2	1.30	2.90	100	0.015
187.03	1	0.10	1.23	0	0.030
187.03	2	0.58	1.23	100	0.015
187.04	1	0.17	5.37	0	0.030
187.04	2	1.16	5.37	100	0.015
187.05	1	0.15	4.62	0	0.030
187.05	2	0.86	4.62	100	0.015
188.01	1	0.26	5.50	0	0.030
188.01	2	1.23	5.50	100	0.015
188.02	1	0.15	3.45	0	0.030
188.02	2	0.70	3.45	100	0.015
189.01	1	0.29	4.34	0	0.030
189.01	2	1.41	4.34	100	0.015
189.02	1	0.27	1.18	0	0.030
189.02	2	1.33	1.18	100	0.015
190.01	1	0.10	8.45	0	0.030
190.01	2	0.61	8.45	100	0.015
191.01	1	0.23	4.95	0	0.030
191.01	2	1.12	4.95	100	0.015
191.02	1	0.13	2.99	0	0.030
191.02	2	0.59	2.99	100	0.015
191.03	1	0.36	2.94	0	0.030
191.03	2	1.59	2.94	100	0.015
191.04	1	0.32	3.80	0	0.030
191.04	2	1.53	3.80	100	0.015
191.05	1	0.45	1.75	0	0.030
191.05	2	2.21	1.75	100	0.015
191.06	1	1.73	2.15	0	0.030
191.06	2	1.25	2.15	100	0.015
191.07	1	0.84	5.52	0	0.030
191.07	2	0.97	5.52	100	0.015
191.08	1	1.49	3.76	0	0.030
191.08	2	1.76	3.76	100	0.015
192.01	1	1.02	2.61	0	0.030
192.01	2	3.88	2.61	100	0.015
193.01	1	0.69	2.70	0	0.030
193.01	2	1.66	2.70	100	0.015
194.01	1	1.18	4.20	0	0.030
194.01	2	1.55	4.20	100	0.015
194.02	1	5.12	3.89	0	0.030
194.02	2	1.92	3.89	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
194.03	1	0.65	5.78	0	0.030
194.03	2	1.56	5.78	100	0.015
195.01	1	4.27	4.41	0	0.030
195.01	2	0.76	4.41	100	0.015
196.01	1	3.20	4.22	0	0.030
196.01	2	5.41	4.22	100	0.015
197.01	1	2.42	7.36	0	0.030
197.01	2	3.22	7.36	100	0.015
198.01	1	5.73	10.43	0	0.030
198.01	2	0.64	10.43	100	0.015
200.01	1	0.27	1.35	0	0.030
200.01	2	1.22	1.35	100	0.015
200.02	1	0.40	0.78	0	0.030
200.02	2	0.93	0.78	100	0.015
200.03	1	0.80	2.47	0	0.030
200.03	2	1.84	2.47	100	0.015
200.04	1	0.88	9.82	0	0.030
200.04	2	1.72	9.82	100	0.015
200.05	1	0.36	7.99	0	0.030
200.05	2	0.84	7.99	100	0.015
200.06	1	2.88	11.07	0	0.030
200.06	2	1.09	11.07	100	0.015
200.07	1	2.44	18.99	0	0.030
200.07	2	0.42	18.99	100	0.015
200.08	1	3.76	21.56	0	0.030
200.08	2	0.56	21.56	100	0.015
200.09	1	5.26	23.35	0	0.030
200.09	2	0.58	23.35	100	0.015
201.01	1	0.26	3.06	0	0.030
201.01	2	1.43	3.06	100	0.015
202.01	1	0.16	2.82	0	0.030
202.01	2	1.48	2.82	100	0.015
203.01	1	0.40	5.77	0	0.030
203.01	2	1.40	5.77	100	0.015
204.01	1	1.05	11.60	0	0.030
204.01	2	1.64	11.60	100	0.015
205.01	1	0.98	4.20	0	0.030
205.01	2	0.45	4.20	100	0.015
206.01	1	6.41	24.07	0	0.030
206.01	2	2.87	24.07	100	0.015
207.01	1	0.22	1.66	0	0.030
207.01	2	1.48	1.66	100	0.015
207.02	1	0.39	3.77	0	0.030
207.02	2	1.39	3.77	100	0.015
207.03	1	0.31	2.69	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
207.03	2	0.28	2.69	100	0.015
207.04	1	0.13	2.07	0	0.030
207.04	2	0.64	2.07	100	0.015
207.05	1	0.13	3.98	0	0.030
207.05	2	0.61	3.98	100	0.015
207.06	1	0.30	3.56	0	0.030
207.06	2	1.30	3.56	100	0.015
207.07	1	1.18	6.67	0	0.030
207.07	2	0.59	6.67	100	0.015
207.08	1	1.64	11.00	0	0.030
207.08	2	1.68	11.00	100	0.015
207.09	1	1.72	14.60	0	0.030
207.09	2	0.79	14.60	100	0.015
207.10	1	1.78	16.02	0	0.030
207.10	2	1.07	16.02	100	0.015
207.11	1	4.01	15.94	0	0.030
207.11	2	1.34	15.94	100	0.015
207.12	1	0.35	21.97	0	0.030
207.12	2	0.04	21.97	100	0.015
207.13	1	2.98	21.56	0	0.030
207.13	2	0.33	21.56	100	0.015
207.14	1	5.13	23.55	0	0.030
207.14	2	0.57	23.55	100	0.015
208.01	1	1.29	4.29	0	0.030
208.01	2	0.37	4.29	100	0.015
208.02	1	0.22	2.27	0	0.030
208.02	2	0.63	2.27	100	0.015
208.03	1	0.30	2.89	0	0.030
208.03	2	0.64	2.89	100	0.015
208.04	1	0.21	2.78	0	0.030
208.04	2	1.02	2.78	100	0.015
208.05	1	0.21	2.40	0	0.030
208.05	2	0.98	2.40	100	0.015
209.01	1	0.22	0.87	0	0.030
209.01	2	1.00	0.87	100	0.015
210.01	1	0.42	3.10	0	0.030
210.01	2	2.12	3.10	100	0.015
210.02	1	0.21	4.01	0	0.030
210.02	2	0.92	4.01	100	0.015
211.01	1	1.31	2.46	0	0.030
211.01	2	0.37	2.46	100	0.015
211.02	1	2.22	2.39	0	0.030
211.02	2	0.26	2.39	100	0.015
211.03	1	0.71	7.15	0	0.030
211.03	2	0.35	7.15	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
211.04	1	0.64	8.85	0	0.030
211.04	2	0.61	8.85	100	0.015
212.01	1	1.10	0.38	0	0.030
212.01	2	0.12	0.38	100	0.015
212.02	1	0.58	2.82	0	0.030
212.02	2	0.16	2.82	100	0.015
213.01	1	0.14	5.67	0	0.030
213.01	2	0.83	5.67	100	0.015
213.02	1	0.13	6.02	0	0.030
213.02	2	0.61	6.02	100	0.015
214.01	1	0.22	5.70	0	0.030
214.01	2	1.02	5.70	100	0.015
214.02	1	0.22	5.87	0	0.030
214.02	2	1.19	5.87	100	0.015
215.01	1	0.20	1.55	0	0.030
215.01	2	0.89	1.55	100	0.015
215.02	1	0.16	2.46	0	0.030
215.02	2	0.77	2.46	100	0.015
216.01	1	0.37	3.85	0	0.030
216.01	2	0.50	3.85	100	0.015
216.02	1	0.30	1.91	0	0.030
216.02	2	0.50	1.91	100	0.015
216.03	1	0.28	2.61	0	0.030
216.03	2	0.92	2.61	100	0.015
216.04	1	0.26	3.60	0	0.030
216.04	2	1.22	3.60	100	0.015
217.01	1	0.33	4.48	0	0.030
217.01	2	0.28	4.48	100	0.015
218.01	1	0.28	3.80	0	0.030
218.01	2	0.19	3.80	100	0.015
219.01	1	0.31	4.56	0	0.030
219.01	2	0.32	4.56	100	0.015
220.01	1	0.18	3.95	0	0.030
220.01	2	0.85	3.95	100	0.015
221.01	1	0.17	4.49	0	0.030
221.01	2	0.78	4.49	100	0.015
221.02	1	0.21	3.66	0	0.030
221.02	2	1.04	3.66	100	0.015
221.03	1	0.09	3.25	0	0.030
221.03	2	0.46	3.25	100	0.015
221.04	1	0.23	2.63	0	0.030
221.04	2	1.06	2.63	100	0.015
221.05	1	0.24	2.65	0	0.030
221.05	2	1.14	2.65	100	0.015
221.06	1	0.07	1.46	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
221.06	2	0.37	1.46	100	0.015
222.01	1	0.20	2.65	0	0.030
222.01	2	0.87	2.65	100	0.015
222.02	1	0.13	3.13	0	0.030
222.02	2	0.59	3.13	100	0.015
222.03	1	1.22	15.01	0	0.030
222.03	2	0.93	15.01	100	0.015
223.01	1	0.08	3.63	0	0.030
223.01	2	0.36	3.63	100	0.015
224.01	1	1.58	8.91	0	0.030
224.01	2	0.18	8.91	100	0.015
225.01	1	0.15	1.73	0	0.030
225.01	2	0.71	1.73	100	0.015
226.01	1	0.31	4.69	0	0.030
226.01	2	0.26	4.69	100	0.015
226.02	1	0.10	2.06	0	0.030
226.02	2	0.50	2.06	100	0.015
226.03	1	0.09	2.35	0	0.030
226.03	2	0.47	2.35	100	0.015
226.04	1	0.09	3.22	0	0.030
226.04	2	0.57	3.22	100	0.015
226.05	1	0.67	11.15	0	0.030
226.05	2	0.76	11.15	100	0.015
226.06	1	0.48	12.01	0	0.030
226.06	2	1.59	12.01	100	0.015
226.07	1	0.97	10.86	0	0.030
226.07	2	1.76	10.86	100	0.015
226.08	1	1.18	23.45	0	0.030
226.08	2	0.26	23.45	100	0.015
227.01	1	0.05	3.97	0	0.030
227.01	2	0.26	3.97	100	0.015
228.01	1	0.12	2.92	0	0.030
228.01	2	0.56	2.92	100	0.015
229.01	1	0.09	1.79	0	0.030
229.01	2	0.40	1.79	100	0.015
230.01	1	0.09	1.18	0	0.030
230.01	2	0.41	1.18	100	0.015
231.01	1	0.10	1.41	0	0.030
231.01	2	0.45	1.41	100	0.015
232.01	1	0.24	1.18	0	0.030
232.01	2	1.18	1.18	100	0.015
232.02	1	0.16	3.97	0	0.030
232.02	2	0.68	3.97	100	0.015
232.03	1	0.23	3.26	0	0.030
232.03	2	1.14	3.26	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
233.01	1	0.17	3.23	0	0.030
233.01	2	0.76	3.23	100	0.015
233.02	1	0.12	3.50	0	0.030
233.02	2	0.57	3.50	100	0.015
234.01	1	0.51	2.51	0	0.030
234.01	2	0.87	2.51	100	0.015
234.02	1	0.38	2.94	0	0.030
234.02	2	0.60	2.94	100	0.015
234.03	1	0.24	3.07	0	0.030
234.03	2	1.03	3.07	100	0.015
235.01	1	0.43	2.20	0	0.030
235.01	2	0.02	2.20	100	0.015
236.01	1	0.09	2.41	0	0.030
236.01	2	0.52	2.41	100	0.015
236.02	1	0.07	3.28	0	0.030
236.02	2	0.28	3.28	100	0.015
237.01	1	0.24	2.50	0	0.030
237.01	2	0.63	2.50	100	0.015
237.02	1	1.02	3.31	0	0.030
237.02	2	0.53	3.31	100	0.015
238.01	1	0.08	3.11	0	0.030
238.01	2	0.45	3.11	100	0.015
238.02	1	0.14	2.37	0	0.030
238.02	2	0.66	2.37	100	0.015
239.01	1	0.12	5.73	0	0.030
239.01	2	0.57	5.73	100	0.015
240.01	1	2.53	3.97	0	0.030
240.01	2	0.60	3.97	100	0.015
240.02	1	1.29	27.76	0	0.030
240.02	2	0.14	27.76	100	0.015
241.01	1	9.82	26.11	0	0.030
241.01	2	1.09	26.11	100	0.015
242.01	1	0.18	0.93	0	0.030
242.01	2	0.89	0.93	100	0.015
242.02	1	0.32	1.69	0	0.030
242.02	2	1.45	1.69	100	0.015
242.03	1	0.24	2.30	0	0.030
242.03	2	1.14	2.30	100	0.015
242.04	1	0.05	2.62	0	0.030
242.04	2	0.25	2.62	100	0.015
242.05	1	0.35	5.92	0	0.030
242.05	2	1.60	5.92	100	0.015
242.06	1	0.59	6.46	0	0.030
242.06	2	2.30	6.46	100	0.015
242.07	1	1.09	13.39	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
242.07	2	0.28	13.39	100	0.015
242.08	1	7.53	26.92	0	0.030
242.08	2	0.84	26.92	100	0.015
243.01	1	0.53	2.12	0	0.030
243.01	2	0.38	2.12	100	0.015
243.02	1	0.25	3.87	0	0.030
243.02	2	1.13	3.87	100	0.015
244.01	1	0.72	3.31	0	0.030
244.01	2	0.55	3.31	100	0.015
245.01	1	0.11	2.57	0	0.030
245.01	2	0.57	2.57	100	0.015
246.01	1	0.07	1.06	0	0.030
246.01	2	0.41	1.06	100	0.015
246.02	1	0.55	12.23	0	0.030
246.02	2	0.40	12.23	100	0.015
247.01	1	0.36	7.60	0	0.030
247.01	2	0.97	7.60	100	0.015
247.02	1	1.89	15.75	0	0.030
247.02	2	0.60	15.75	100	0.015
248.01	1	1.69	16.08	0	0.030
248.01	2	0.23	16.08	100	0.015
249.01	1	0.52	2.07	0	0.030
249.01	2	0.09	2.07	100	0.015
249.02	1	0.27	3.09	0	0.030
249.02	2	0.44	3.09	100	0.015
249.03	1	0.13	2.79	0	0.030
249.03	2	0.56	2.79	100	0.015
249.04	1	0.43	4.50	0	0.030
249.04	2	1.88	4.50	100	0.015
249.05	1	1.22	8.03	0	0.030
249.05	2	2.96	8.03	100	0.015
249.06	1	10.15	20.45	0	0.030
249.06	2	2.10	20.45	100	0.015
250.01	1	0.05	0.10	0	0.030
250.01	2	0.28	0.10	100	0.015
251.01	1	0.13	1.23	0	0.030
251.01	2	0.64	1.23	100	0.015
252.01	1	0.32	1.92	0	0.030
252.01	2	0.69	1.92	100	0.015
252.02	1	0.14	3.22	0	0.030
252.02	2	0.59	3.22	100	0.015
253.01	1	0.20	2.49	0	0.030
253.01	2	1.04	2.49	100	0.015
253.02	1	0.41	3.34	0	0.030
253.02	2	1.86	3.34	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
253.03	1	0.20	4.19	0	0.030
253.03	2	0.89	4.19	100	0.015
254.01	1	0.26	2.14	0	0.030
254.01	2	1.06	2.14	100	0.015
255.01	1	0.46	2.81	0	0.030
255.01	2	0.94	2.81	100	0.015
256.01	1	0.28	4.05	0	0.030
256.01	2	0.82	4.05	100	0.015
257.01	1	0.13	5.26	0	0.030
257.01	2	0.46	5.26	100	0.015
258.01	1	0.68	11.62	0	0.030
258.01	2	2.06	11.62	100	0.015
258.02	1	1.89	13.99	0	0.030
258.02	2	0.65	13.99	100	0.015
259.01	1	0.20	0.58	0	0.030
259.01	2	1.03	0.58	100	0.015
259.02	1	0.26	1.96	0	0.030
259.02	2	1.16	1.96	100	0.015
259.03	1	0.19	2.02	0	0.030
259.03	2	0.91	2.02	100	0.015
259.04	1	0.22	0.45	0	0.030
259.04	2	1.07	0.45	100	0.015
259.05	1	0.32	2.02	0	0.030
259.05	2	1.35	2.02	100	0.015
259.06	1	0.08	0.10	0	0.030
259.06	2	0.34	0.10	100	0.015
259.07	1	0.39	9.73	0	0.030
259.07	2	2.11	9.73	100	0.015
259.08	1	1.36	28.69	0	0.030
259.08	2	1.51	28.69	100	0.015
259.09	1	3.90	24.62	0	0.030
259.09	2	0.44	24.62	100	0.015
259.10	1	1.22	26.67	0	0.030
259.10	2	0.24	26.67	100	0.015
260.01	1	0.13	2.27	0	0.030
260.01	2	0.63	2.27	100	0.015
261.01	1	0.17	0.89	0	0.030
261.01	2	0.87	0.89	100	0.015
262.01	1	0.19	2.62	0	0.030
262.01	2	0.92	2.62	100	0.015
262.02	1	0.14	2.23	0	0.030
262.02	2	0.85	2.23	100	0.015
263.01	1	0.23	2.38	0	0.030
263.01	2	0.98	2.38	100	0.015
264.01	1	0.10	4.52	0	0.030

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
264.01	2	0.52	4.52	100	0.015
265.01	1	0.19	2.02	0	0.030
265.01	2	0.71	2.02	100	0.015
265.02	1	1.13	5.42	0	0.030
265.02	2	0.85	5.42	100	0.015
265.03	1	2.13	10.63	0	0.030
265.03	2	0.29	10.63	100	0.015
265.04	1	3.12	22.65	0	0.030
265.04	2	1.29	22.65	100	0.015
266.01	1	0.52	2.97	0	0.030
266.01	2	0.85	2.97	100	0.015
266.02	1	0.34	2.45	0	0.030
266.02	2	0.91	2.45	100	0.015
266.03	1	0.08	3.38	0	0.030
266.03	2	0.43	3.38	100	0.015
266.04	1	0.28	1.71	0	0.030
266.04	2	0.60	1.71	100	0.015
266.05	1	1.03	10.63	0	0.030
266.05	2	1.56	10.63	100	0.015
267.01	1	0.20	3.98	0	0.030
267.01	2	0.84	3.98	100	0.015
268.01	1	0.39	2.72	0	0.030
268.01	2	1.47	2.72	100	0.015
268.02	1	0.89	2.79	0	0.030
268.02	2	1.87	2.79	100	0.015
269.01	1	0.54	3.38	0	0.030
269.01	2	0.53	3.38	100	0.015
270.01	1	0.69	5.28	0	0.030
270.01	2	0.48	5.28	100	0.015
271.01	1	0.39	4.66	0	0.030
271.01	2	0.31	4.66	100	0.015
272.01	1	1.08	4.70	0	0.030
272.01	2	0.73	4.70	100	0.015
272.02	1	0.87	17.35	0	0.030
272.02	2	0.87	17.35	100	0.015
272.03	1	0.52	42.40	0	0.030
272.03	2	0.06	42.40	100	0.015
273.01	1	0.70	13.58	0	0.030
273.01	2	0.71	13.58	100	0.015
274.01	1	0.91	1.18	0	0.030
274.01	2	0.35	1.18	100	0.015
274.02	1	0.36	4.66	0	0.030
274.02	2	1.77	4.66	100	0.015
274.03	1	0.34	3.50	0	0.030
274.03	2	1.43	3.50	100	0.015

Subcatchment ID	Sub-Area	Area [ha]	Catchment Slope [%]	Percentage Impervious [%]	Mannings 'n'
274.04	1	0.36	7.15	0	0.030
274.04	2	1.58	7.15	100	0.015
274.05	1	1.38	36.09	0	0.030
274.05	2	0.35	36.09	100	0.015
275.01	1	0.20	2.21	0	0.030
275.01	2	0.96	2.21	100	0.015
276.01	1	0.13	3.84	0	0.030
276.01	2	0.67	3.84	100	0.015
277.01	1	0.26	7.05	0	0.030
277.01	2	0.82	7.05	100	0.015
278.01	1	0.11	2.73	0	0.030
278.01	2	0.52	2.73	100	0.015
278.02	1	6.99	31.09	0	0.030
278.02	2	2.60	31.09	100	0.015
279.01	1	0.61	6.90	0	0.030
279.01	2	0.76	6.90	100	0.015
279.02	1	5.63	41.49	0	0.030
279.02	2	1.28	41.49	100	0.015
280.01	1	0.42	4.64	0	0.030
280.01	2	0.80	4.64	100	0.015

Appendix D

XP-RAFTS Model Outputs (ARR1987)



PEAK DESIGN FLOOD DISCHARGES - 1% AEP (ARR1987)

Subcatchment ID	Peak Discharge (m³/s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
1.01	0.70	0.76	0.78	0.82	0.88	0.82	0.50	0.32	0.28	0.18	0.14	0.10
1.02	1.50	1.66	1.71	1.79	1.92	1.77	1.10	0.70	0.61	0.40	0.32	0.22
1.03	1.83	2.02	2.00	2.09	2.26	2.10	1.29	0.82	0.72	0.47	0.37	0.26
1.04	4.75	5.35	5.55	5.83	6.24	5.78	3.55	2.26	1.98	1.29	1.02	0.73
1.05	5.24	5.87	5.95	6.28	6.65	6.29	3.88	2.48	2.17	1.41	1.12	0.80
1.06	6.19	6.94	6.98	7.35	7.75	7.41	4.57	2.92	2.55	1.66	1.31	0.94
1.07	6.36	7.12	7.11	7.46	7.86	7.57	4.68	3.00	2.62	1.71	1.35	0.96
1.08	16.58	18.20	17.30	18.18	18.96	18.89	11.91	7.82	6.82	4.47	3.53	2.52
1.09	3.33	5.52	7.16	9.04	9.19	9.45	7.22	7.01	6.77	4.92	4.02	2.87
1.10	3.71	5.53	7.23	9.19	9.35	9.57	7.33	7.15	6.88	5.02	4.11	2.93
1.11	11.38	12.86	13.02	13.13	15.07	13.63	10.91	10.06	9.70	6.87	5.58	3.99
1.12	14.11	16.26	16.21	16.40	18.21	16.36	12.62	11.25	10.79	7.61	6.16	4.41
1.13	16.17	18.71	18.89	18.92	20.63	19.01	14.12	12.30	11.74	8.23	6.66	4.76
1.14	19.70	22.35	22.48	22.75	24.25	22.78	16.26	13.87	13.18	9.20	7.43	5.31
1.15	21.69	24.59	24.62	24.43	25.64	24.88	17.57	14.78	13.93	9.74	7.87	5.63
1.16	25.28	29.30	27.59	27.63	28.31	29.25	19.50	16.45	15.58	10.93	8.83	6.32
1.17	25.38	29.72	27.97	28.13	28.70	29.79	19.78	16.69	15.79	11.10	8.98	6.42
1.18	25.58	30.84	28.91	29.37	29.69	31.11	21.01	17.39	16.51	11.60	9.38	6.70
1.19	20.55	25.22	26.47	28.43	28.36	28.39	23.84	21.41	20.50	16.61	18.30	10.42
1.20	9.64	12.57	17.51	24.11	24.15	24.42	22.10	20.88	18.46	15.18	18.25	10.41
1.21	9.26	12.21	16.13	21.36	22.42	22.87	21.22	20.20	17.42	15.21	17.99	10.65
1.22	9.28	12.23	16.16	21.42	22.81	23.26	21.82	20.71	17.72	15.77	18.27	11.06
1.23	14.29	16.06	16.48	21.49	23.81	24.65	23.40	21.96	18.37	17.20	18.92	12.23
1.24	24.29	27.81	29.44	30.94	35.04	33.48	25.77	24.15	21.56	19.33	21.14	13.98
1.25	24.41	28.88	30.14	31.85	35.70	34.54	26.04	24.39	21.75	19.57	21.28	14.15
1.26	26.20	32.18	32.47	34.57	37.66	37.69	27.08	25.13	23.10	20.34	21.74	14.77
1.27	26.44	32.61	33.03	35.16	38.15	38.25	27.55	25.32	23.35	20.53	21.89	14.87
1.28	28.25	38.08	41.44	44.05	45.18	46.03	34.05	30.38	29.24	23.51	24.75	17.30
1.29	28.39	38.31	41.87	46.13	46.88	47.85	35.85	32.41	30.90	24.64	25.64	18.17
1.30	28.44	38.39	42.06	46.71	47.47	48.45	36.40	33.05	31.47	24.99	25.96	18.45
1.31	28.49	38.46	42.19	47.13	47.93	48.93	36.84	33.54	31.82	25.26	26.17	18.64
1.32	28.55	38.55	42.35	47.70	48.60	49.70	37.59	34.33	32.25	25.65	26.45	18.96
1.33	28.66	38.71	42.62	49.01	50.25	51.69	39.57	36.27	33.17	26.65	27.16	19.79
1.34	28.67	38.73	42.64	49.35	50.72	52.29	40.19	36.81	33.37	26.93	27.38	20.04
1.35	28.69	38.75	42.69	49.69	51.17	52.84	40.77	37.36	33.62	27.33	27.67	20.27
1.36	28.78	38.89	42.92	51.72	53.74	56.03	44.38	40.55	35.86	29.89	29.64	21.75
2.01	0.38	0.44	0.49	0.52	0.55	0.51	0.31	0.20	0.17	0.11	0.09	0.06
3.01	0.39	0.46	0.51	0.54	0.57	0.53	0.33	0.21	0.18	0.12	0.09	0.07
3.02	1.26	1.52	1.66	1.80	1.92	1.76	1.12	0.71	0.62	0.40	0.32	0.22
4.01	0.39	0.54	0.56	0.63	0.67	0.60	0.41	0.26	0.22	0.14	0.11	0.08
5.01	0.36	0.41	0.45	0.45	0.47	0.44	0.25	0.16	0.14	0.09	0.07	0.05
6.01	0.48	0.56	0.53	0.54	0.57	0.55	0.29	0.18	0.16	0.10	0.08	0.06
7.01	0.64	0.72	0.77	0.79	0.84	0.78	0.46	0.29	0.26	0.17	0.13	0.09
8.01	0.53	0.61	0.65	0.67	0.70	0.66	0.38	0.24	0.21	0.14	0.11	0.08
8.02	1.41	1.57	1.62	1.65	1.74	1.64	0.95	0.60	0.53	0.34	0.27	0.19
8.03	3.71	4.10	4.18	4.23	4.46	4.18	2.43	1.55	1.35	0.88	0.70	0.50
8.04	6.54	7.19	7.25	7.38	7.80	7.32	4.27	2.72	2.37	1.55	1.23	0.88
8.05	7.30	8.01	7.90	8.09	8.55	8.14	4.82	3.07	2.68	1.75	1.39	0.99
8.06	7.71	8.42	8.26	8.47	8.95	8.53	5.12	3.27	2.85	1.86	1.47	1.06
9.01	0.50	0.57	0.57	0.57	0.61	0.58	0.32	0.20	0.18	0.12	0.09	0.07
10.01	0.68	0.78	0.78	0.79	0.83	0.80	0.44	0.28	0.24	0.16	0.13	0.09
11.01	0.43	0.48	0.49	0.49	0.51	0.49	0.26	0.17	0.15	0.10	0.08	0.05
12.01	0.48	0.56	0.56	0.56	0.60	0.57	0.31	0.20	0.17	0.11	0.09	0.06
12.02	0.86	0.98	0.96	0.96	1.02	0.99	0.53	0.34	0.29	0.19	0.15	0.11
12.03	1.68	1.85	1.83	1.85	1.95	1.85	1.04	0.66	0.58	0.38	0.30	0.22
12.04	2.17	2.40	2.33	2.38	2.53	2.39	1.36	0.86	0.75	0.49	0.39	0.28
13.01	0.45	0.51	0.51	0.51	0.54	0.52	0.29	0.18	0.16	0.10	0.08	0.06
14.01	0.80	0.90	0.88	0.89	0.94	0.91	0.49	0.31	0.27	0.18	0.14	0.10
14.02	1.31	1.49	1.45	1.47	1.55	1.50	0.81	0.51	0.45	0.29	0.23	0.17
14.03	1.74	1.98	1.93	1.95	2.07	1.99	1.07	0.68	0.60	0.39	0.31	0.22
15.01	0.88	0.95	0.91	0.92	0.98	0.93	0.52	0.33	0.29	0.19	0.15	0.11
15.02	1.16	1.26	1.20	1.22	1.31	1.24	0.71	0.46	0.40	0.26	0.21	0.15
15.03	1.83	1.99	1.94	1.97	2.09	1.97	1.15	0.73	0.64	0.42	0.33	0.24
16.01	0.52	0.60	0.59	0.59	0.63	0.60	0.33	0.21	0.18	0.12	0.09	0.07
17.01	0.46	0.52	0.51	0.51	0.55	0.53	0.29	0.18	0.16	0.10	0.08	0.06
17.02	0.84	0.94	0.93	0.94	0.98	0.94	0.53	0.34	0.29	0.19	0.15	0.11
17.03	1.41	1.58	1.57	1.59	1.68	1.59	0.89	0.57	0.50	0.32	0.26	0.18
17.04	3.34	3.80	3.89	3.88	4.08	3.87	2.16	1.37	1.20	0.78	0.62	0.44
17.05	4.79	5.43	5.54	5.52	5.81	5.50	3.07	1.95	1.70	1.11	0.88	0.63
17.06	5.53	6.25	6.25	6.26	6.53	6.31	3.57	2.27	1.98	1.29	1.02	0.73
17.07	6.00	6.73	6.62	6.61	6.94	6.76	3.91	2.49	2.17	1.42	1.12	0.80
18.01	0.51	0.57	0.58	0.58	0.61	0.59	0.32	0.20	0.17	0.11	0.09	0.06
18.02	0.86	0.96	0.98	0.97	1.03	0.99	0.53	0.34	0.29	0.19	0.15	0.11
19.01	0.31	0.34	0.39	0.38	0.40	0.37	0.21	0.13	0.12	0.08	0.06	0.04
20.01	0.40	0.45	0.45	0.45	0.48	0.46	0.25	0.16	0.14	0.09	0.07	0.05
21.01	0.57	0.65	0.64	0.64	0.68	0.66	0.35	0.22	0.19	0.13	0.10	0.07
22.01	0.32	0.36	0.36	0.36	0.38	0.37	0.20	0.12	0.11	0.07	0.06	0.04
23.01	0.42	0.47	0.47	0.47	0.50	0.48	0.25	0.16	0.14	0.09	0.07	0.05
23.02	1.31	1.47	1.49	1.47	1.54	1.46	0.81	0.52	0.45	0.29	0.23	0.17
23.03	1.65	1.82	1.84	1.83	1.93	1.81	1.04	0.66	0.58	0.38	0.30	0.21
24.01	0.37	0.41	0.41	0.41	0.44	0.42	0.22	0.14	0.12	0.08	0.06	0.05
25.01	1.11	1.27	1.24	1.25	1.32	1.28	0.68	0.43	0.38	0.25	0.20	0.14
25.02	1.66	1.90	1.87	1.88	1.99	1.92	1.03	0.65	0.57	0.37	0.30	0.21
25.03	1.83	2.09	2.03	2.07	2.19	2.11	1.14	0.72	0.63	0.41	0.33	0.23
25.04	3.08	3.42	3.48	3.51	3.68	3.50	1.97	1.25	1.09	0.71	0.57	0.41
26.01	0.34	0.38	0.39	0.39	0.41	0.40	0.21	0.14	0.12	0.08	0.06	0.04
27.01	0.34	0.39	0.44	0.45	0.48	0.44	0.27	0.17	0.15	0.10	0.08	0.05
28.01	0.18	0.33	0.31	0.39	0.43	0.41	0.29	0.18	0.16	0.10	0.08	0.06
28.02	0.64	0.80	0.86	0.95	1.02	0.92	0.62	0.39	0.34	0.22	0.17	0.12
28.03	0.94	1.12	1.23	1.32	1.43	1.29	0.85	0.54	0.47	0.31	0.24	0.17
28.04	2.16	2.43	2.60	2.69	2.87	2.66	1.62	1.03	0.90	0.59	0.46	0.33

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
29.01	0.34	0.38	0.38	0.38	0.40	0.39	0.21	0.13	0.12	0.08	0.06	0.04
29.02	1.02	1.10	1.10	1.11	1.17	1.10	0.62	0.40	0.35	0.23	0.18	0.13
30.01	0.60	0.69	0.68	0.68	0.72	0.70	0.37	0.24	0.21	0.13	0.11	0.08
30.02	1.16	1.33	1.32	1.32	1.40	1.35	0.72	0.46	0.40	0.26	0.21	0.15
30.03	1.64	1.88	1.85	1.86	1.97	1.91	1.02	0.65	0.57	0.37	0.29	0.21
30.04	2.11	2.40	2.36	2.37	2.52	2.43	1.31	0.83	0.73	0.48	0.38	0.27
31.01	0.40	0.45	0.51	0.51	0.53	0.50	0.28	0.18	0.16	0.10	0.08	0.06
31.02	0.88	0.99	1.07	1.07	1.13	1.06	0.60	0.38	0.33	0.22	0.17	0.12
32.01	0.31	0.46	0.47	0.50	0.53	0.47	0.31	0.20	0.17	0.11	0.09	0.06
32.02	0.44	0.67	0.67	0.74	0.78	0.71	0.47	0.30	0.26	0.17	0.13	0.09
33.01	0.51	0.58	0.57	0.57	0.61	0.59	0.31	0.20	0.17	0.11	0.09	0.06
33.02	1.26	1.38	1.39	1.39	1.47	1.39	0.78	0.49	0.43	0.28	0.22	0.16
34.01	0.39	0.45	0.48	0.47	0.49	0.47	0.26	0.16	0.14	0.09	0.07	0.05
34.02	0.80	0.90	1.00	0.98	1.03	0.97	0.55	0.35	0.30	0.20	0.16	0.11
34.03	0.96	1.08	1.19	1.18	1.24	1.17	0.66	0.42	0.36	0.24	0.19	0.13
35.01	0.37	0.42	0.39	0.40	0.42	0.41	0.21	0.14	0.12	0.08	0.06	0.04
35.02	1.13	1.20	1.15	1.14	1.20	1.15	0.63	0.40	0.35	0.23	0.18	0.13
35.03	1.78	1.92	1.80	1.80	1.89	1.81	0.99	0.63	0.55	0.36	0.29	0.21
35.04	1.92	2.08	1.95	1.94	2.04	1.95	1.07	0.68	0.59	0.39	0.31	0.22
36.01	0.78	0.88	0.87	0.88	0.94	0.90	0.50	0.31	0.27	0.18	0.14	0.10
36.02	1.38	1.58	1.58	1.58	1.68	1.62	0.88	0.56	0.49	0.32	0.25	0.18
37.01	0.30	0.34	0.34	0.34	0.36	0.35	0.19	0.12	0.10	0.07	0.05	0.04
37.02	0.84	0.93	0.96	0.96	1.00	0.94	0.54	0.34	0.30	0.20	0.15	0.11
38.01	0.35	0.39	0.40	0.40	0.42	0.40	0.22	0.14	0.12	0.08	0.06	0.04
39.01	0.20	0.23	0.23	0.23	0.24	0.23	0.13	0.08	0.07	0.05	0.04	0.03
40.01	0.51	0.55	0.51	0.51	0.54	0.53	0.28	0.18	0.15	0.10	0.08	0.06
41.01	0.31	0.35	0.33	0.34	0.36	0.35	0.18	0.11	0.10	0.06	0.05	0.04
42.01	1.11	1.22	1.13	1.15	1.22	1.18	0.62	0.39	0.34	0.23	0.18	0.13
43.01	0.23	0.26	0.24	0.24	0.26	0.25	0.13	0.08	0.07	0.05	0.04	0.03
44.01	0.73	0.83	0.81	0.81	0.86	0.83	0.45	0.29	0.25	0.16	0.13	0.09
44.02	1.24	1.41	1.37	1.39	1.47	1.42	0.76	0.48	0.42	0.28	0.22	0.16
44.03	1.69	1.94	1.91	1.92	2.04	1.97	1.06	0.67	0.59	0.38	0.30	0.22
44.04	2.56	2.91	2.89	2.94	3.12	2.98	1.66	1.05	0.92	0.60	0.47	0.34
44.05	4.69	5.09	5.12	5.20	5.48	5.14	2.99	1.90	1.66	1.08	0.86	0.61
44.06	5.10	5.56	5.62	5.72	6.03	5.66	3.29	2.09	1.83	1.19	0.95	0.68
44.07	6.12	6.74	6.77	6.93	7.32	6.90	4.04	2.57	2.24	1.47	1.16	0.83
44.08	6.95	8.15	8.29	8.37	8.64	8.29	5.19	3.23	2.87	1.88	1.49	1.07
44.09	7.14	8.93	8.82	9.00	9.23	9.16	5.79	3.65	3.24	2.13	1.69	1.20
44.10	7.93	11.89	10.73	11.38	10.93	12.32	8.13	5.32	4.76	3.20	2.56	1.83
44.11	2.62	9.72	10.86	13.67	14.36	14.98	10.98	8.40	7.46	5.14	4.27	3.23
44.12	1.29	5.46	9.21	12.66	13.44	14.17	10.15	8.80	7.82	5.39	4.47	3.37
44.13	0.54	0.64	0.71	0.79	0.89	0.79	0.94	1.42	4.45	3.15	4.63	2.11
44.14	4.89	5.47	5.60	6.04	6.52	6.01	3.76	2.51	5.00	3.36	5.65	2.47
44.15	5.20	5.98	5.39	5.88	5.98	6.61	4.41	3.87	5.74	3.89	6.89	2.91
44.16	2.18	2.35	2.45	2.71	2.74	2.77	2.66	2.64	3.21	3.23	6.90	2.72
44.17	6.39	7.43	7.27	7.89	8.37	8.21	6.17	4.92	4.72	3.84	8.13	3.15
44.18	5.83	7.28	7.23	7.79	8.19	8.23	6.34	5.15	4.92	4.00	8.21	3.19
44.19	5.96	7.79	8.01	8.65	8.84	8.91	6.85	5.71	5.45	4.35	8.47	3.29
44.20	6.10	8.11	8.50	9.20	9.32	9.37	7.27	6.04	5.76	4.55	8.62	3.34
45.01	0.51	0.59	0.63	0.65	0.68	0.64	0.37	0.24	0.21	0.13	0.11	0.08
46.01	0.43	0.49	0.50	0.50	0.52	0.51	0.27	0.17	0.15	0.10	0.08	0.06
46.02	0.78	0.90	0.90	0.90	0.96	0.92	0.50	0.32	0.28	0.18	0.14	0.10
46.03	1.23	1.36	1.35	1.35	1.43	1.37	0.76	0.48	0.42	0.28	0.22	0.16
46.04	1.39	1.54	1.49	1.54	1.63	1.56	0.86	0.55	0.48	0.31	0.25	0.18
47.01	0.74	0.82	0.79	0.80	0.85	0.82	0.45	0.29	0.25	0.16	0.13	0.09
48.01	0.54	0.61	0.60	0.60	0.64	0.62	0.33	0.21	0.19	0.12	0.10	0.07
48.02	0.90	0.99	1.00	1.00	1.05	0.99	0.56	0.36	0.31	0.20	0.16	0.12
49.01	0.61	0.68	0.68	0.68	0.71	0.69	0.36	0.23	0.20	0.13	0.10	0.07
50.01	0.22	0.24	0.27	0.26	0.27	0.26	0.14	0.09	0.08	0.05	0.04	0.03
51.01	0.21	0.24	0.24	0.24	0.25	0.24	0.13	0.08	0.07	0.05	0.04	0.03
52.01	0.22	0.24	0.24	0.24	0.25	0.24	0.13	0.08	0.07	0.05	0.04	0.03
53.01	0.51	0.59	0.58	0.58	0.62	0.60	0.32	0.21	0.18	0.12	0.09	0.07
53.02	1.13	1.30	1.29	1.30	1.37	1.32	0.71	0.45	0.39	0.26	0.20	0.15
53.03	1.41	1.58	1.55	1.58	1.67	1.60	0.87	0.55	0.48	0.32	0.25	0.18
54.01	0.42	0.47	0.47	0.47	0.50	0.48	0.26	0.16	0.14	0.09	0.07	0.05
54.02	0.87	0.98	0.99	0.99	1.04	1.00	0.54	0.34	0.30	0.19	0.15	0.11
55.01	0.64	0.74	0.73	0.74	0.78	0.75	0.40	0.26	0.22	0.15	0.12	0.08
56.01	0.31	0.35	0.37	0.36	0.38	0.36	0.20	0.13	0.11	0.07	0.06	0.04
57.01	0.23	0.25	0.29	0.28	0.30	0.28	0.16	0.10	0.09	0.06	0.04	0.03
58.01	0.45	0.49	0.47	0.48	0.51	0.49	0.27	0.17	0.15	0.10	0.08	0.06
59.01	0.60	0.65	0.65	0.67	0.71	0.67	0.39	0.25	0.22	0.14	0.11	0.08
59.02	1.18	1.34	1.33	1.34	1.43	1.36	0.76	0.49	0.42	0.28	0.22	0.16
59.03	1.70	1.94	1.95	1.95	2.07	1.98	1.10	0.70	0.61	0.40	0.32	0.23
59.04	2.18	2.46	2.46	2.48	2.63	2.50	1.41	0.90	0.78	0.51	0.40	0.29
59.05	4.59	5.24	5.46	5.62	5.93	5.57	3.22	2.05	1.78	1.16	0.92	0.66
59.06	5.40	6.17	6.22	6.45	6.68	6.53	3.86	2.45	2.14	1.40	1.10	0.79
59.07	9.04	10.50	10.85	11.11	11.65	11.25	6.69	4.25	3.71	2.42	1.91	1.36
59.08	10.14	11.69	12.07	12.38	12.99	12.51	7.64	4.87	4.24	2.77	2.19	1.56
59.09	10.78	13.71	13.81	13.96	14.61	14.30	9.65	6.22	5.43	3.54	2.80	2.00
59.10	10.25	14.93	14.69	15.28	15.41	16.21	11.10	7.23	6.31	4.12	3.26	2.33
60.01	0.36	0.45	0.49	0.51	0.54	0.49	0.30	0.19	0.17	0.11	0.09	0.06
60.02	1.58	1.79	2.03	2.04	2.14	1.99	1.16	0.74	0.64	0.42	0.33	0.24
61.01	0.79	0.89	1.02	1.03	1.07	1.00	0.58	0.37	0.32	0.21	0.17	0.12
62.01	0.50	0.56	0.57	0.57	0.60	0.58	0.31	0.20	0.17	0.11	0.09	0.06
63.01	0.28	0.33	0.37	0.37	0.39	0.36	0.21	0.14	0.12	0.08	0.06	0.04
64.01	0.41	0.44	0.42	0.42	0.45	0.43	0.24	0.15	0.13	0.09	0.07	0.05
64.02	1.35	1.52	1.55	1.58	1.66	1.56	0.90	0.57	0.50	0.33	0.26	0.19
64.03	2.59	2.89	2.92	2.97	3.14	2.95	1.70	1.08	0.94	0.61	0.49	0.35
64.04	3.52	4.04	4.21	4.32	4.58	4.30	2.55	1.62	1.41	0.92	0.73	0.52
65.01	0.31	0.34	0.33	0.34	0.36	0.34	0.19	0.12	0.11	0.07	0.06	0.04
66.01	0.24	0.27	0.30	0.29	0.31	0.29	0.16	0.10	0.09	0.06	0.05	0.03
66.02	0.52	0.66	0.72	0.76	0.81	0.74	0.46	0.29	0.25	0.16	0.13	0.09
67.01	0.42	0.48	0.47	0.48	0.50	0.48	0.26	0.16	0.14	0.09	0.07	0.05

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
68.01	0.58	0.65	0.65	0.65	0.69	0.67	0.36	0.23	0.20	0.13	0.10	0.07
68.02	1.17	1.31	1.32	1.31	1.37	1.30	0.72	0.46	0.40	0.26	0.21	0.15
68.03	2.11	2.31	2.33	2.30	2.41	2.28	1.29	0.82	0.72	0.47	0.37	0.27
69.01	0.50	0.57	0.54	0.55	0.58	0.56	0.29	0.19	0.16	0.11	0.08	0.06
70.01	0.47	0.52	0.52	0.52	0.54	0.52	0.28	0.18	0.15	0.10	0.08	0.06
70.02	0.78	0.85	0.87	0.86	0.91	0.86	0.47	0.30	0.26	0.17	0.14	0.10
71.01	0.57	0.65	0.65	0.65	0.69	0.67	0.36	0.23	0.20	0.13	0.10	0.07
71.02	1.17	1.31	1.33	1.33	1.39	1.32	0.74	0.47	0.41	0.27	0.21	0.15
72.01	0.62	0.71	0.69	0.70	0.74	0.71	0.38	0.24	0.21	0.14	0.11	0.08
73.01	0.51	0.57	0.57	0.58	0.61	0.59	0.33	0.21	0.18	0.12	0.09	0.07
74.01	0.58	0.66	0.65	0.65	0.69	0.67	0.36	0.23	0.20	0.13	0.10	0.07
75.01	0.35	0.38	0.44	0.44	0.46	0.43	0.25	0.16	0.14	0.09	0.07	0.05
75.02	1.41	1.60	1.83	1.84	1.93	1.79	1.05	0.66	0.58	0.38	0.30	0.21
75.03	2.09	2.37	2.62	2.67	2.80	2.61	1.53	0.97	0.84	0.55	0.43	0.31
75.04	3.77	4.20	4.44	4.50	4.70	4.45	2.57	1.63	1.43	0.93	0.74	0.53
76.01	0.44	0.55	0.60	0.62	0.65	0.59	0.36	0.23	0.20	0.13	0.10	0.07
77.01	0.68	0.78	0.77	0.77	0.82	0.79	0.43	0.27	0.24	0.15	0.12	0.09
77.02	1.02	1.17	1.16	1.16	1.23	1.19	0.64	0.40	0.35	0.23	0.18	0.13
77.03	1.51	1.68	1.70	1.69	1.78	1.70	0.95	0.60	0.52	0.34	0.27	0.19
78.01	0.64	0.73	0.72	0.73	0.77	0.74	0.40	0.26	0.22	0.15	0.12	0.08
79.01	0.79	0.82	0.80	0.81	0.87	0.81	0.49	0.32	0.28	0.18	0.14	0.10
79.02	1.47	1.57	1.48	1.49	1.60	1.51	0.88	0.59	0.52	0.34	0.27	0.19
79.03	3.16	3.45	3.37	3.38	3.59	3.38	1.95	1.27	1.11	0.73	0.58	0.41
80.01	0.67	0.76	0.76	0.76	0.80	0.78	0.41	0.26	0.23	0.15	0.12	0.09
80.02	1.43	1.64	1.62	1.63	1.72	1.66	0.89	0.57	0.49	0.32	0.26	0.18
81.01	0.49	0.56	0.61	0.61	0.64	0.60	0.34	0.22	0.19	0.12	0.10	0.07
81.02	1.51	1.69	1.78	1.78	1.87	1.76	1.00	0.64	0.55	0.36	0.29	0.20
82.01	0.59	0.68	0.68	0.68	0.72	0.69	0.38	0.24	0.21	0.14	0.11	0.08
83.01	0.38	0.43	0.43	0.43	0.46	0.44	0.24	0.15	0.13	0.09	0.07	0.05
84.01	0.56	0.63	0.66	0.65	0.69	0.66	0.36	0.23	0.20	0.13	0.10	0.07
84.02	1.44	1.60	1.64	1.64	1.72	1.63	0.91	0.58	0.50	0.33	0.26	0.19
84.03	1.91	2.14	2.20	2.19	2.30	2.17	1.21	0.77	0.67	0.44	0.35	0.25
84.04	2.27	2.49	2.53	2.54	2.67	2.52	1.44	0.92	0.80	0.52	0.41	0.30
84.05	2.78	3.04	3.02	3.05	3.20	3.06	1.80	1.15	1.00	0.65	0.52	0.37
84.06	3.12	3.41	3.31	3.37	3.50	3.39	2.06	1.31	1.14	0.75	0.59	0.42
85.01	0.36	0.40	0.40	0.40	0.42	0.40	0.21	0.14	0.12	0.08	0.06	0.04
86.01	0.55	0.61	0.60	0.60	0.64	0.62	0.34	0.21	0.19	0.12	0.10	0.07
86.02	1.08	1.21	1.19	1.22	1.33	1.24	0.77	0.54	0.47	0.31	0.25	0.17
87.01	0.79	0.89	0.87	0.88	0.93	0.90	0.48	0.31	0.27	0.18	0.14	0.10
87.02	1.40	1.56	1.53	1.55	1.63	1.55	0.88	0.56	0.49	0.32	0.25	0.18
88.01	0.35	0.40	0.40	0.40	0.43	0.41	0.23	0.14	0.13	0.08	0.06	0.05
88.02	0.60	0.67	0.68	0.71	0.76	0.71	0.43	0.28	0.24	0.16	0.12	0.09
89.01	0.41	0.45	0.43	0.43	0.46	0.44	0.24	0.16	0.14	0.09	0.07	0.05
89.02	0.45	0.49	0.49	0.50	0.53	0.50	0.29	0.18	0.16	0.10	0.08	0.06
90.01	0.17	0.18	0.18	0.18	0.19	0.18	0.10	0.07	0.06	0.04	0.03	0.02
91.01	0.45	0.52	0.49	0.50	0.52	0.51	0.26	0.17	0.15	0.10	0.08	0.05
91.02	1.02	1.11	1.08	1.06	1.12	1.07	0.58	0.37	0.32	0.21	0.17	0.12
92.01	0.44	0.50	0.54	0.54	0.57	0.54	0.31	0.19	0.17	0.11	0.09	0.06
92.02	1.36	1.50	1.56	1.61	1.71	1.60	0.95	0.60	0.52	0.34	0.27	0.19
93.01	0.43	0.49	0.53	0.55	0.57	0.54	0.31	0.20	0.17	0.11	0.09	0.06
94.01	0.54	0.62	0.59	0.60	0.63	0.61	0.32	0.21	0.18	0.12	0.09	0.07
94.02	1.40	1.52	1.48	1.47	1.54	1.47	0.81	0.51	0.45	0.29	0.23	0.17
95.01	0.32	0.37	0.34	0.35	0.37	0.36	0.19	0.12	0.10	0.07	0.05	0.04
95.02	0.80	0.90	0.86	0.87	0.92	0.89	0.47	0.30	0.26	0.17	0.13	0.10
96.01	0.36	0.41	0.39	0.40	0.42	0.40	0.21	0.14	0.12	0.08	0.06	0.04
97.01	0.25	0.28	0.26	0.26	0.28	0.27	0.14	0.09	0.08	0.05	0.04	0.03
97.02	1.59	1.75	1.66	1.68	1.80	1.72	0.97	0.62	0.54	0.35	0.28	0.20
98.01	0.43	0.48	0.47	0.48	0.51	0.49	0.27	0.17	0.15	0.10	0.08	0.06
99.01	0.41	0.46	0.46	0.46	0.48	0.47	0.25	0.16	0.14	0.09	0.07	0.05
99.02	1.18	1.33	1.35	1.32	1.39	1.32	0.73	0.46	0.40	0.26	0.21	0.15
99.03	2.06	2.29	2.33	2.32	2.43	2.29	1.29	0.82	0.72	0.47	0.37	0.27
99.04	4.55	5.22	5.57	5.81	6.18	5.78	3.56	2.27	1.98	1.29	1.02	0.73
100.01	0.41	0.58	0.60	0.69	0.75	0.66	0.47	0.30	0.26	0.17	0.13	0.09
100.02	0.70	0.98	1.01	1.19	1.33	1.19	0.86	0.56	0.48	0.31	0.25	0.17
101.01	0.84	0.95	1.01	1.00	1.05	1.00	0.56	0.36	0.31	0.20	0.16	0.11
101.02	1.56	1.78	1.85	1.85	1.95	1.87	1.03	0.66	0.57	0.37	0.30	0.21
102.01	0.67	0.76	0.75	0.75	0.80	0.77	0.41	0.26	0.23	0.15	0.12	0.08
102.02	2.80	3.09	3.12	3.10	3.26	3.08	1.72	1.09	0.95	0.62	0.49	0.35
103.01	0.46	0.51	0.50	0.50	0.53	0.51	0.27	0.17	0.15	0.10	0.08	0.06
103.02	1.67	1.86	1.89	1.86	1.95	1.85	1.02	0.65	0.57	0.37	0.29	0.21
104.01	0.41	0.46	0.46	0.46	0.48	0.46	0.25	0.16	0.14	0.09	0.07	0.05
105.01	0.44	0.49	0.50	0.49	0.52	0.50	0.27	0.17	0.15	0.10	0.08	0.05
105.02	1.07	1.21	1.25	1.23	1.29	1.22	0.68	0.43	0.37	0.25	0.19	0.14
105.03	2.50	2.85	2.91	2.86	3.01	2.85	1.58	1.00	0.88	0.57	0.45	0.32
105.04	3.45	3.93	4.00	3.93	4.12	3.93	2.17	1.38	1.20	0.79	0.62	0.45
105.05	4.09	4.71	4.92	4.88	5.12	4.83	2.72	1.73	1.51	0.99	0.78	0.56
105.06	4.20	4.95	5.31	5.39	5.66	5.34	3.12	1.99	1.73	1.13	0.89	0.64
105.07	6.57	7.38	7.79	8.11	8.67	8.10	4.93	3.13	2.73	1.78	1.41	1.00
105.08	7.89	8.87	9.22	9.68	10.34	9.61	5.85	3.73	3.25	2.12	1.68	1.19
105.09	10.97	12.42	12.58	13.24	14.07	13.19	7.96	5.08	4.43	2.89	2.29	1.63
106.01	0.32	0.35	0.36	0.35	0.37	0.36	0.19	0.12	0.11	0.07	0.05	0.04
107.01	0.56	0.62	0.63	0.63	0.66	0.63	0.34	0.22	0.19	0.12	0.10	0.07
108.01	0.40	0.46	0.44	0.45	0.47	0.46	0.24	0.15	0.13	0.09	0.07	0.05
109.01	0.51	0.59	0.59	0.59	0.62	0.60	0.32	0.21	0.18	0.12	0.09	0.07
110.01	0.49	0.55	0.54	0.54	0.57	0.55	0.30	0.19	0.17	0.11	0.09	0.06
110.02	1.15	1.30	1.31	1.33	1.40	1.32	0.76	0.48	0.42	0.27	0.22	0.16
110.03	1.26	1.42	1.46	1.47	1.55	1.46	0.84	0.53	0.46	0.30	0.24	0.17
111.01	0.23	0.38	0.37	0.44	0.48	0.44	0.31	0.19	0.17	0.11	0.09	0.06
112.01	0.87	0.94	0.91	0.92	0.98	0.93	0.52	0.33	0.29	0.19	0.15	0.11
113.01	0.29	0.33	0.34	0.34	0.36	0.34	0.19	0.12	0.10	0.07	0.05	0.04
113.02	1.00	1.11	1.16	1.19	1.26	1.18	0.69	0.44	0.38	0.25	0.20	0.14
114.01	0.52	0.58	0.60	0.63	0.68	0.63	0.38	0.24	0.21	0.14	0.11	0.08
114.02	0.86	0.95	0.98	1.01	1.08	1.00	0.60	0.38	0.33	0.22	0.17	0.12

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
114.03	1.81	1.99	2.02	2.05	2.18	2.03	1.20	0.77	0.67	0.44	0.35	0.25
115.01	0.47	0.53	0.52	0.52	0.56	0.54	0.29	0.19	0.16	0.11	0.08	0.06
115.02	0.79	0.88	0.88	0.89	0.94	0.88	0.50	0.32	0.28	0.18	0.14	0.10
116.01	0.47	0.53	0.51	0.52	0.55	0.53	0.29	0.19	0.16	0.11	0.08	0.06
116.02	0.79	0.88	0.87	0.88	0.93	0.88	0.50	0.32	0.28	0.18	0.14	0.10
117.01	0.27	0.31	0.31	0.31	0.33	0.31	0.17	0.11	0.09	0.06	0.05	0.03
118.01	0.42	0.48	0.51	0.54	0.59	0.54	0.34	0.22	0.19	0.12	0.10	0.07
119.01	0.99	1.06	1.02	1.03	1.10	1.04	0.59	0.38	0.33	0.21	0.17	0.12
119.02	2.41	2.66	2.58	2.62	2.79	2.66	1.50	0.95	0.83	0.54	0.43	0.31
120.01	0.40	0.46	0.46	0.46	0.49	0.47	0.25	0.16	0.14	0.09	0.07	0.05
121.01	0.51	0.58	0.57	0.58	0.61	0.59	0.33	0.21	0.18	0.12	0.09	0.07
122.01	0.58	0.66	0.72	0.77	0.82	0.76	0.47	0.30	0.26	0.17	0.13	0.10
122.02	1.14	1.29	1.35	1.40	1.49	1.39	0.82	0.52	0.46	0.30	0.24	0.17
122.03	1.62	1.80	1.87	1.92	2.04	1.89	1.13	0.72	0.63	0.41	0.33	0.23
123.01	0.46	0.49	0.46	0.46	0.49	0.47	0.26	0.16	0.14	0.09	0.07	0.05
123.02	1.27	1.41	1.39	1.39	1.46	1.38	0.78	0.50	0.43	0.28	0.22	0.16
123.03	7.56	8.45	8.92	9.63	10.60	9.73	6.52	4.26	3.71	2.41	1.90	1.35
123.04	7.74	8.64	9.02	9.75	10.69	9.91	6.59	4.34	3.79	2.47	1.95	1.38
123.05	10.15	11.25	10.91	11.46	12.46	12.33	8.22	5.48	4.78	3.12	2.46	1.75
123.06	10.65	11.78	11.29	11.83	12.82	12.79	8.56	5.70	4.97	3.24	2.56	1.82
123.07	11.63	13.02	12.09	12.78	13.63	13.99	9.31	6.24	5.44	3.55	2.80	1.99
124.01	0.40	0.53	0.55	0.65	0.75	0.67	0.49	0.32	0.28	0.18	0.14	0.10
124.02	2.78	3.43	3.70	4.19	4.74	4.15	3.06	2.01	1.75	1.13	0.89	0.63
125.01	0.52	0.76	0.77	0.92	1.03	0.92	0.67	0.43	0.37	0.24	0.19	0.13
126.01	0.39	0.44	0.43	0.43	0.46	0.44	0.24	0.15	0.13	0.09	0.07	0.05
126.02	0.79	0.99	1.06	1.21	1.38	1.21	0.90	0.60	0.52	0.34	0.26	0.19
126.03	1.39	1.67	1.82	2.04	2.33	2.03	1.52	1.01	0.88	0.57	0.45	0.32
127.01	0.67	0.76	0.81	0.86	0.92	0.85	0.52	0.33	0.29	0.19	0.15	0.11
127.02	1.79	2.00	2.15	2.29	2.50	2.27	1.49	0.96	0.84	0.55	0.43	0.31
128.01	0.48	0.59	0.64	0.73	0.82	0.72	0.52	0.34	0.30	0.19	0.15	0.11
129.01	0.42	0.49	0.54	0.55	0.58	0.54	0.32	0.20	0.17	0.11	0.09	0.06
130.01	0.67	0.76	0.74	0.75	0.79	0.77	0.41	0.26	0.23	0.15	0.12	0.08
131.01	0.27	0.30	0.28	0.29	0.30	0.30	0.15	0.10	0.09	0.06	0.04	0.03
132.01	0.36	0.42	0.42	0.42	0.45	0.43	0.24	0.15	0.13	0.09	0.07	0.05
133.01	0.27	0.31	0.30	0.30	0.32	0.31	0.16	0.10	0.09	0.06	0.05	0.03
134.01	0.24	0.26	0.26	0.27	0.28	0.27	0.15	0.10	0.08	0.06	0.04	0.03
134.02	0.80	0.94	0.97	1.02	1.08	1.01	0.60	0.38	0.33	0.22	0.17	0.12
134.03	1.52	1.79	1.95	2.00	2.12	1.96	1.23	0.78	0.68	0.44	0.35	0.25
134.04	2.00	2.54	2.65	2.75	2.90	2.72	1.76	1.12	0.97	0.63	0.50	0.35
135.01	0.18	0.20	0.21	0.21	0.22	0.21	0.11	0.07	0.06	0.04	0.03	0.02
135.02	1.11	1.22	1.19	1.20	1.27	1.21	0.68	0.43	0.38	0.25	0.20	0.14
135.03	1.47	1.64	1.61	1.61	1.72	1.64	0.91	0.58	0.50	0.33	0.26	0.19
135.04	3.32	3.69	3.55	3.60	3.84	3.66	2.05	1.31	1.14	0.75	0.59	0.42
135.05	3.84	4.29	4.10	4.23	4.50	4.28	2.39	1.52	1.33	0.87	0.69	0.49
135.06	6.00	6.86	6.89	7.01	7.46	7.04	4.03	2.57	2.24	1.46	1.16	0.83
136.01	0.55	0.62	0.60	0.61	0.65	0.62	0.34	0.21	0.19	0.12	0.10	0.07
137.01	0.61	0.65	0.62	0.63	0.67	0.64	0.36	0.23	0.20	0.13	0.10	0.07
138.01	0.76	0.80	0.76	0.77	0.83	0.78	0.45	0.29	0.25	0.17	0.13	0.09
139.01	0.67	0.74	0.74	0.76	0.80	0.76	0.44	0.28	0.24	0.16	0.12	0.09
139.02	0.84	0.92	0.91	0.92	0.99	0.94	0.54	0.34	0.30	0.20	0.16	0.11
140.01	0.49	0.53	0.51	0.52	0.55	0.53	0.30	0.19	0.17	0.11	0.09	0.06
141.01	0.71	0.84	0.96	0.93	0.98	0.90	0.53	0.34	0.29	0.19	0.15	0.10
142.01	0.86	1.26	1.28	1.51	1.66	1.48	1.06	0.67	0.59	0.38	0.30	0.21
143.01	0.39	0.44	0.49	0.55	0.63	0.55	0.41	0.28	0.24	0.16	0.12	0.09
143.02	3.59	4.08	4.63	4.72	5.00	4.62	2.81	1.81	1.58	1.03	0.81	0.58
144.01	0.57	0.61	0.61	0.64	0.69	0.64	0.39	0.25	0.22	0.14	0.11	0.08
144.02	0.81	0.87	0.89	0.93	1.01	0.92	0.59	0.38	0.33	0.21	0.17	0.12
144.03	1.14	1.24	1.27	1.34	1.46	1.34	0.85	0.55	0.48	0.31	0.24	0.17
144.04	1.89	2.14	2.28	2.33	2.51	2.33	1.53	0.99	0.86	0.56	0.44	0.32
144.05	3.65	4.14	4.27	4.28	4.51	4.26	2.69	1.73	1.51	0.98	0.78	0.55
145.01	0.77	0.81	0.76	0.76	0.80	0.77	0.42	0.27	0.24	0.15	0.12	0.09
145.02	1.37	1.44	1.44	1.42	1.51	1.44	0.79	0.50	0.44	0.29	0.23	0.16
146.01	0.81	1.45	1.38	1.68	1.83	1.73	1.20	0.76	0.66	0.42	0.33	0.23
147.01	0.57	0.76	0.84	0.82	0.86	0.78	0.48	0.30	0.26	0.17	0.13	0.09
147.02	0.80	1.06	1.14	1.15	1.21	1.12	0.68	0.43	0.37	0.24	0.19	0.13
147.03	2.28	2.66	2.99	2.96	3.10	2.95	1.71	1.08	0.94	0.60	0.47	0.33
148.01	0.56	0.62	0.65	0.64	0.68	0.65	0.36	0.23	0.20	0.13	0.10	0.07
148.02	1.26	1.38	1.56	1.53	1.60	1.51	0.84	0.53	0.47	0.30	0.24	0.17
149.01	0.43	0.47	0.48	0.51	0.57	0.51	0.34	0.23	0.20	0.13	0.10	0.07
149.02	1.29	1.48	1.71	1.68	1.79	1.67	1.01	0.65	0.57	0.37	0.29	0.20
150.01	0.48	0.55	0.54	0.54	0.58	0.56	0.30	0.19	0.17	0.11	0.09	0.06
150.02	1.03	1.12	1.11	1.12	1.18	1.12	0.64	0.40	0.35	0.23	0.18	0.13
150.03	2.64	2.92	2.89	2.91	3.06	2.89	1.64	1.04	0.91	0.60	0.47	0.34
150.04	3.52	3.83	3.72	3.78	4.01	3.79	2.17	1.38	1.21	0.79	0.63	0.45
150.05	4.93	5.46	5.26	5.34	5.68	5.35	3.10	1.99	1.74	1.14	0.90	0.64
150.06	9.21	10.18	9.84	9.91	10.56	10.03	5.99	3.86	3.37	2.20	1.75	1.25
150.07	14.56	16.11	15.63	15.84	16.79	15.80	9.54	6.14	5.36	3.50	2.78	1.99
150.08	23.08	25.76	25.17	25.37	26.77	25.34	15.73	10.28	9.08	6.00	4.81	3.45
150.09	2.14	2.29	2.98	7.77	7.46	7.79	7.85	7.93	9.39	6.42	5.16	3.70
150.10	6.44	6.84	6.48	9.46	9.20	9.45	9.32	9.66	11.37	7.75	6.21	4.45
150.11	15.53	17.18	16.35	16.06	16.86	17.06	12.25	12.58	14.98	10.20	8.17	5.85
150.12	19.51	24.34	22.39	22.26	21.52	23.60	17.09	15.44	18.15	12.62	10.11	7.24
150.13	19.97	27.09	25.77	26.15	24.24	26.52	20.08	17.06	20.04	14.01	11.21	8.03
150.14	29.09	39.54	40.73	43.71	41.33	44.21	32.66	23.85	28.01	19.40	15.47	11.05
150.15	29.65	40.34	41.64	44.75	42.26	45.39	33.49	24.44	28.46	19.75	15.75	11.24
150.16	31.52	43.30	44.48	48.09	46.48	49.29	36.19	26.35	29.99	20.83	16.60	11.84
150.17	32.72	44.74	46.05	49.91	48.86	51.36	37.65	27.49	30.82	21.49	17.13	12.20
151.01	0.67	0.75	0.72	0.72	0.77	0.74	0.40	0.26	0.22	0.15	0.12	0.08
151.02	1.07	1.18	1.15	1.16	1.23	1.17	0.66	0.42	0.36	0.24	0.19	0.14
152.01	0.63	0.68	0.65	0.66	0.70	0.66	0.38	0.24	0.21	0.14	0.11	0.08
153.01	0.52	0.55	0.52	0.52	0.56	0.53	0.31	0.20	0.17	0.11	0.09	0.06
153.02	1.25	1.37	1.29	1.30	1.40	1.32	0.76	0.50	0.43	0.28	0.22	0.16
154.01	0.94	1.00	0.99	1.02	1.09	1.02	0.61	0.39	0.34	0.22	0.18	0.13

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
154.02	3.44	3.63	3.52	3.57	3.83	3.63	2.14	1.38	1.21	0.79	0.62	0.45
155.01	0.32	0.35	0.40	0.40	0.42	0.39	0.23	0.14	0.12	0.08	0.06	0.05
155.02	1.00	1.09	1.13	1.15	1.21	1.14	0.65	0.41	0.36	0.24	0.19	0.13
156.01	0.39	0.42	0.40	0.41	0.43	0.41	0.24	0.15	0.13	0.09	0.07	0.05
157.01	0.48	0.49	0.47	0.48	0.51	0.48	0.28	0.18	0.16	0.10	0.08	0.06
158.01	0.56	0.63	0.61	0.62	0.66	0.63	0.34	0.22	0.19	0.13	0.10	0.07
158.02	0.75	0.83	0.82	0.83	0.87	0.83	0.47	0.30	0.26	0.17	0.13	0.10
158.03	1.67	1.83	1.82	1.84	1.94	1.82	1.06	0.67	0.59	0.38	0.30	0.22
158.04	3.10	3.40	3.35	3.40	3.61	3.38	1.97	1.26	1.10	0.72	0.57	0.41
159.01	0.45	0.50	0.49	0.49	0.52	0.50	0.28	0.18	0.15	0.10	0.08	0.06
160.01	0.42	0.48	0.48	0.48	0.51	0.49	0.26	0.17	0.14	0.09	0.08	0.05
160.02	1.04	1.13	1.13	1.14	1.20	1.14	0.64	0.41	0.36	0.23	0.18	0.13
161.01	0.52	0.59	0.57	0.58	0.61	0.59	0.32	0.20	0.18	0.12	0.09	0.07
161.02	1.05	1.16	1.13	1.14	1.21	1.15	0.65	0.41	0.36	0.24	0.19	0.13
162.01	0.68	0.72	0.69	0.70	0.75	0.70	0.41	0.26	0.23	0.15	0.12	0.08
163.01	0.33	0.39	0.44	0.45	0.48	0.44	0.26	0.17	0.15	0.10	0.08	0.05
163.02	0.69	0.79	0.86	0.87	0.92	0.86	0.50	0.32	0.27	0.18	0.14	0.10
163.03	1.21	1.32	1.38	1.41	1.49	1.39	0.81	0.51	0.45	0.29	0.23	0.17
163.04	1.68	1.84	1.84	1.90	2.02	1.90	1.11	0.71	0.62	0.40	0.32	0.23
163.05	2.99	3.30	3.22	3.33	3.54	3.33	1.94	1.24	1.08	0.71	0.56	0.40
164.01	0.60	0.63	0.60	0.61	0.65	0.61	0.36	0.23	0.20	0.13	0.10	0.07
165.01	0.51	0.54	0.51	0.52	0.56	0.52	0.30	0.19	0.17	0.11	0.09	0.06
165.02	1.24	1.41	1.33	1.35	1.45	1.36	0.79	0.51	0.44	0.29	0.23	0.16
165.03	1.59	1.75	1.63	1.57	1.65	1.69	1.03	0.68	0.59	0.39	0.31	0.22
165.04	3.43	3.83	3.76	3.71	3.89	3.67	2.31	1.49	1.30	0.85	0.67	0.48
165.05	5.47	6.18	6.14	6.03	6.30	5.91	3.96	2.60	2.27	1.49	1.18	0.84
166.01	0.47	0.49	0.47	0.47	0.50	0.47	0.27	0.18	0.15	0.10	0.08	0.06
167.01	0.61	0.69	0.69	0.69	0.73	0.70	0.37	0.24	0.21	0.14	0.11	0.08
167.02	1.65	1.82	1.83	1.83	1.92	1.82	1.02	0.65	0.57	0.37	0.29	0.21
168.01	0.53	0.58	0.56	0.56	0.60	0.57	0.32	0.20	0.18	0.12	0.09	0.07
169.01	0.52	0.54	0.52	0.52	0.56	0.53	0.31	0.20	0.17	0.11	0.09	0.06
169.02	0.94	1.01	0.99	1.00	1.08	1.00	0.61	0.40	0.35	0.23	0.18	0.13
169.03	2.07	2.27	2.18	2.20	2.36	2.20	1.32	0.86	0.75	0.49	0.39	0.28
170.01	0.45	0.48	0.46	0.47	0.50	0.47	0.27	0.17	0.15	0.10	0.08	0.06
171.01	0.30	0.34	0.31	0.32	0.34	0.33	0.17	0.11	0.09	0.06	0.05	0.04
172.01	0.59	0.67	0.64	0.65	0.68	0.66	0.34	0.22	0.19	0.12	0.10	0.07
172.02	1.07	1.17	1.13	1.14	1.20	1.15	0.63	0.40	0.35	0.23	0.18	0.13
173.01	0.39	0.56	0.63	0.75	0.87	0.86	0.67	0.51	0.44	0.29	0.23	0.16
173.02	1.10	1.32	1.45	1.63	1.88	1.66	1.28	0.91	0.80	0.52	0.41	0.29
173.03	1.28	1.40	1.51	1.71	1.93	1.76	1.31	0.97	0.85	0.56	0.44	0.31
173.04	2.46	2.69	2.76	2.94	3.27	2.95	2.06	1.45	1.26	0.83	0.65	0.46
173.05	3.02	3.26	3.16	3.31	3.59	3.49	2.39	1.70	1.49	0.98	0.77	0.55
174.01	0.39	0.43	0.41	0.41	0.44	0.42	0.22	0.14	0.12	0.08	0.06	0.05
175.01	0.66	0.74	0.73	0.74	0.78	0.75	0.41	0.26	0.23	0.15	0.12	0.08
175.02	1.39	1.56	1.57	1.57	1.65	1.55	0.88	0.56	0.49	0.32	0.25	0.18
175.03	2.28	2.50	2.50	2.53	2.67	2.51	1.45	0.92	0.81	0.53	0.42	0.30
175.04	2.84	3.13	3.10	3.20	3.40	3.18	1.89	1.20	1.05	0.69	0.54	0.39
175.05	3.27	3.62	3.55	3.62	3.86	3.67	2.21	1.41	1.23	0.81	0.64	0.46
176.01	0.26	0.31	0.34	0.37	0.40	0.37	0.24	0.15	0.13	0.09	0.07	0.05
177.01	0.37	0.41	0.41	0.41	0.43	0.42	0.22	0.14	0.12	0.08	0.06	0.05
177.02	1.03	1.15	1.17	1.16	1.22	1.15	0.64	0.41	0.36	0.23	0.18	0.13
177.03	2.93	3.20	3.18	3.19	3.37	3.18	1.83	1.16	1.02	0.66	0.53	0.38
177.04	4.02	4.39	4.33	4.38	4.63	4.36	2.52	1.61	1.40	0.92	0.73	0.52
178.01	0.86	0.93	0.90	0.91	0.97	0.92	0.52	0.33	0.29	0.19	0.15	0.11
178.02	1.34	1.48	1.45	1.46	1.55	1.49	0.83	0.53	0.46	0.30	0.24	0.17
179.01	0.66	0.74	0.73	0.73	0.78	0.75	0.41	0.26	0.23	0.15	0.12	0.08
180.01	0.67	0.73	0.71	0.72	0.76	0.73	0.41	0.26	0.23	0.15	0.12	0.08
180.02	1.19	1.30	1.29	1.32	1.42	1.32	0.78	0.50	0.43	0.28	0.22	0.16
180.03	1.69	1.86	1.84	1.88	2.00	1.89	1.09	0.70	0.61	0.40	0.31	0.22
180.04	2.46	2.70	2.64	2.69	2.86	2.71	1.55	0.99	0.86	0.56	0.45	0.32
181.01	0.25	0.31	0.33	0.37	0.41	0.37	0.25	0.16	0.14	0.09	0.07	0.05
181.02	0.98	1.07	1.10	1.14	1.23	1.14	0.69	0.44	0.39	0.25	0.20	0.14
181.03	1.67	1.82	1.78	1.84	1.98	1.85	1.12	0.72	0.63	0.41	0.33	0.23
181.04	3.02	3.36	3.36	3.52	3.77	3.54	2.18	1.40	1.22	0.80	0.63	0.45
181.05	3.40	3.76	3.65	3.81	4.06	3.92	2.45	1.59	1.38	0.90	0.71	0.51
181.06	3.82	4.20	4.03	4.06	4.30	4.31	2.73	1.77	1.54	1.01	0.80	0.57
181.07	8.42	9.35	9.38	9.43	10.11	9.44	5.97	3.84	3.35	2.19	1.73	1.24
181.08	8.78	9.70	9.67	9.74	10.40	9.78	6.19	4.00	3.49	2.28	1.80	1.29
182.01	0.46	0.51	0.50	0.51	0.54	0.52	0.29	0.19	0.16	0.11	0.08	0.06
182.02	0.77	0.87	0.87	0.89	0.94	0.89	0.51	0.32	0.28	0.18	0.15	0.10
182.03	1.21	1.38	1.46	1.55	1.67	1.54	0.96	0.61	0.54	0.35	0.28	0.20
183.01	0.41	0.47	0.52	0.55	0.59	0.55	0.34	0.22	0.19	0.12	0.10	0.07
183.02	1.02	1.14	1.17	1.21	1.29	1.20	0.72	0.46	0.40	0.26	0.21	0.15
183.03	2.70	2.90	2.94	3.00	3.21	2.98	1.80	1.15	1.00	0.66	0.52	0.37
183.04	3.23	3.51	3.49	3.57	3.82	3.57	2.13	1.36	1.19	0.78	0.61	0.44
184.01	1.10	1.19	1.18	1.21	1.30	1.21	0.71	0.45	0.40	0.26	0.20	0.15
185.01	0.63	0.70	0.68	0.69	0.73	0.70	0.38	0.24	0.21	0.14	0.11	0.08
185.02	1.43	1.60	1.60	1.60	1.69	1.59	0.90	0.57	0.50	0.33	0.26	0.19
186.01	0.24	0.26	0.24	0.24	0.26	0.25	0.14	0.10	0.08	0.05	0.04	0.03
187.01	0.61	0.70	0.69	0.70	0.74	0.71	0.38	0.24	0.21	0.14	0.11	0.08
187.02	1.31	1.42	1.42	1.43	1.51	1.42	0.81	0.51	0.45	0.29	0.23	0.17
187.03	1.60	1.74	1.69	1.73	1.83	1.73	0.99	0.63	0.55	0.36	0.28	0.20
187.04	2.20	2.42	2.34	2.38	2.52	2.39	1.35	0.86	0.75	0.49	0.39	0.28
187.05	2.60	2.84	2.76	2.75	2.91	2.79	1.62	1.03	0.90	0.59	0.47	0.33
188.01	0.64	0.74	0.73	0.73	0.78	0.75	0.40	0.26	0.22	0.15	0.12	0.08
188.02	1.01	1.12	1.13	1.13	1.19	1.13	0.63	0.40	0.35	0.23	0.18	0.13
189.01	0.74	0.84	0.82	0.83	0.88	0.85	0.46	0.29	0.25	0.17	0.13	0.09
189.02	1.36	1.51	1.41	1.40	1.45	1.49	0.88	0.56	0.49	0.32	0.26	0.18
190.01	0.33	0.37	0.36	0.36	0.38	0.37	0.19	0.12	0.11	0.07	0.06	0.04
191.01	0.58	0.67	0.66	0.67	0.70	0.68	0.36	0.23	0.20	0.13	0.10	0.07
191.02	0.89	0.99	0.99	1.00	1.05	1.00	0.56	0.35	0.31	0.20	0.16	0.11
191.03	1.70	1.88	1.86	1.89	2.00	1.88	1.08	0.69	0.60	0.39	0.31	0.22
191.04	2.50	2.75	2.75	2.77	2.92	2.75	1.58	1.00	0.88	0.57	0.45	0.33

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
191.05	3.57	4.00	3.89	3.97	4.21	3.96	2.29	1.46	1.27	0.83	0.66	0.47
191.06	6.12	6.84	6.71	6.88	7.41	6.95	4.28	2.79	2.44	1.59	1.26	0.90
191.07	7.37	8.30	8.24	8.51	9.11	8.54	5.36	3.50	3.05	1.99	1.58	1.13
191.08	8.24	9.27	8.89	9.38	9.84	9.65	6.12	4.05	3.53	2.30	1.82	1.30
192.01	2.13	2.23	2.15	2.19	2.36	2.20	1.30	0.84	0.73	0.48	0.38	0.27
193.01	0.90	0.97	0.99	1.03	1.11	1.03	0.62	0.40	0.35	0.23	0.18	0.13
194.01	0.82	0.95	1.06	1.14	1.24	1.13	0.72	0.46	0.40	0.26	0.21	0.15
194.02	2.54	3.41	3.54	4.22	5.01	4.71	3.57	2.46	2.14	1.39	1.09	0.77
194.03	3.01	3.79	3.97	4.82	5.47	5.15	3.98	2.83	2.47	1.60	1.26	0.89
195.01	0.67	1.06	1.14	1.38	1.63	1.62	1.22	0.83	0.72	0.47	0.37	0.26
196.01	2.94	3.19	3.29	3.47	3.82	3.48	2.24	1.46	1.27	0.83	0.65	0.47
197.01	1.74	2.04	2.27	2.44	2.61	2.39	1.50	0.96	0.83	0.54	0.43	0.30
198.01	1.04	1.87	1.80	2.22	2.47	2.37	1.67	1.06	0.92	0.59	0.46	0.32
200.01	0.67	0.70	0.67	0.67	0.72	0.68	0.40	0.25	0.22	0.15	0.12	0.08
200.02	1.15	1.23	1.17	1.18	1.27	1.19	0.72	0.48	0.42	0.27	0.22	0.16
200.03	2.10	2.28	2.24	2.30	2.49	2.31	1.41	0.93	0.81	0.53	0.42	0.30
200.04	2.89	3.33	3.41	3.48	3.73	3.46	2.10	1.37	1.19	0.78	0.62	0.44
200.05	4.59	5.12	5.21	5.08	5.40	5.16	3.29	2.14	1.87	1.22	0.97	0.69
200.06	7.11	8.18	8.53	8.48	8.98	8.34	5.53	3.57	3.11	2.03	1.60	1.14
200.07	8.16	9.74	10.15	10.20	10.75	9.97	6.64	4.28	3.73	2.43	1.92	1.36
200.08	9.15	11.33	11.66	11.78	12.25	11.70	7.75	5.00	4.36	2.83	2.23	1.58
200.09	12.11	16.97	16.37	16.83	17.24	17.55	11.73	7.53	6.55	4.25	3.34	2.35
201.01	0.77	0.84	0.81	0.81	0.87	0.84	0.46	0.29	0.25	0.17	0.13	0.09
202.01	0.80	0.87	0.81	0.82	0.87	0.84	0.44	0.28	0.25	0.16	0.13	0.09
203.01	0.73	0.84	0.86	0.86	0.91	0.88	0.48	0.31	0.27	0.18	0.14	0.10
204.01	0.97	1.11	1.27	1.26	1.32	1.23	0.72	0.46	0.40	0.26	0.20	0.15
205.01	0.32	0.45	0.46	0.54	0.59	0.52	0.38	0.24	0.21	0.13	0.11	0.07
206.01	2.70	3.74	3.96	4.10	4.29	3.87	2.47	1.56	1.35	0.87	0.69	0.48
207.01	0.81	0.85	0.80	0.80	0.85	0.81	0.46	0.29	0.25	0.17	0.13	0.09
207.02	1.50	1.63	1.61	1.62	1.72	1.61	0.93	0.60	0.52	0.34	0.27	0.19
207.03	1.65	1.80	1.80	1.86	1.97	1.85	1.09	0.70	0.61	0.40	0.31	0.22
207.04	4.14	4.59	4.55	4.71	5.08	4.75	3.11	2.03	1.77	1.16	0.91	0.65
207.05	5.77	6.55	6.42	6.51	6.99	6.61	4.27	2.78	2.43	1.59	1.25	0.90
207.06	6.37	7.13	6.96	7.06	7.49	7.17	4.70	3.06	2.67	1.74	1.38	0.98
207.07	10.44	11.75	12.48	12.64	13.67	12.61	8.63	5.79	5.06	3.32	2.62	1.86
207.08	15.22	17.71	18.27	18.33	19.48	18.31	12.86	8.55	7.47	4.89	3.87	2.75
207.09	17.51	21.00	21.30	21.40	22.57	21.67	15.16	10.01	8.74	5.71	4.51	3.21
207.10	18.12	21.91	22.11	22.30	23.37	22.75	15.79	10.48	9.15	5.98	4.72	3.36
207.11	19.31	23.98	24.00	24.30	25.25	25.09	17.28	11.51	10.05	6.56	5.18	3.68
207.12	28.35	34.74	35.17	35.67	37.35	36.31	24.61	16.22	14.16	9.24	7.30	5.19
207.13	30.05	37.22	37.37	38.19	39.84	39.08	26.54	17.52	15.29	9.97	7.87	5.58
207.14	31.13	39.01	38.98	39.99	41.53	41.00	27.78	18.45	16.10	10.50	8.28	5.87
208.01	0.31	0.48	0.47	0.58	0.65	0.60	0.43	0.28	0.24	0.16	0.12	0.09
208.02	0.57	0.75	0.79	0.92	1.03	0.90	0.66	0.42	0.37	0.24	0.19	0.13
208.03	0.85	1.05	1.12	1.26	1.41	1.26	0.90	0.58	0.51	0.33	0.26	0.18
208.04	1.89	2.09	2.17	2.33	2.56	2.32	1.55	1.00	0.87	0.57	0.45	0.32
208.05	2.32	2.52	2.50	2.61	2.86	2.73	1.84	1.20	1.05	0.68	0.54	0.38
209.01	0.54	0.57	0.54	0.54	0.58	0.55	0.32	0.21	0.18	0.12	0.09	0.07
210.01	1.15	1.24	1.19	1.21	1.28	1.23	0.68	0.43	0.38	0.25	0.20	0.14
210.02	1.61	1.75	1.70	1.71	1.83	1.73	0.99	0.63	0.55	0.36	0.28	0.20
211.01	0.26	0.38	0.38	0.47	0.57	0.54	0.41	0.28	0.24	0.16	0.12	0.09
211.02	0.46	0.77	0.90	1.08	1.18	1.22	0.94	0.69	0.60	0.39	0.30	0.21
211.03	0.87	1.37	1.38	1.69	1.97	1.96	1.49	1.13	1.00	0.66	0.52	0.37
211.04	1.29	1.84	1.89	2.20	2.55	2.41	1.82	1.34	1.19	0.78	0.62	0.43
212.01	0.08	0.10	0.13	0.17	0.18	0.18	0.16	0.16	0.15	0.11	0.09	0.06
212.02	0.21	0.30	0.30	0.37	0.43	0.42	0.31	0.27	0.25	0.18	0.14	0.10
213.01	0.44	0.50	0.49	0.49	0.52	0.50	0.26	0.17	0.15	0.09	0.08	0.05
213.02	0.75	0.84	0.85	0.84	0.88	0.83	0.46	0.29	0.26	0.17	0.13	0.10
214.01	0.54	0.61	0.61	0.61	0.65	0.62	0.33	0.21	0.19	0.12	0.10	0.07
214.02	1.16	1.33	1.31	1.32	1.39	1.34	0.71	0.45	0.40	0.26	0.21	0.15
215.01	0.49	0.52	0.50	0.50	0.54	0.51	0.29	0.19	0.16	0.11	0.08	0.06
215.02	0.87	0.94	0.92	0.93	0.99	0.93	0.54	0.35	0.30	0.20	0.16	0.11
216.01	0.28	0.33	0.37	0.39	0.41	0.38	0.23	0.15	0.13	0.08	0.07	0.05
216.02	0.80	0.98	1.07	1.16	1.25	1.13	0.73	0.47	0.41	0.26	0.21	0.15
216.03	1.40	1.63	1.77	1.91	2.05	1.88	1.22	0.78	0.68	0.44	0.35	0.25
216.04	2.47	2.75	2.88	3.07	3.28	3.03	1.89	1.21	1.05	0.69	0.54	0.39
217.01	0.18	0.24	0.25	0.27	0.28	0.26	0.16	0.10	0.09	0.06	0.05	0.03
218.01	0.13	0.18	0.19	0.20	0.21	0.19	0.13	0.08	0.07	0.04	0.04	0.02
219.01	0.20	0.25	0.27	0.28	0.30	0.27	0.17	0.11	0.09	0.06	0.05	0.03
220.01	0.44	0.51	0.50	0.50	0.53	0.52	0.28	0.18	0.15	0.10	0.08	0.06
221.01	0.41	0.47	0.47	0.47	0.49	0.48	0.26	0.16	0.14	0.09	0.07	0.05
221.02	0.95	1.09	1.07	1.08	1.14	1.10	0.59	0.38	0.33	0.21	0.17	0.12
221.03	1.18	1.34	1.31	1.33	1.41	1.35	0.74	0.47	0.41	0.27	0.21	0.15
221.04	1.72	1.95	1.88	1.94	2.06	1.96	1.09	0.69	0.60	0.39	0.31	0.22
221.05	2.22	2.45	2.22	2.27	2.29	2.44	1.46	0.93	0.81	0.53	0.42	0.30
221.06	2.39	2.63	2.30	2.38	2.36	2.60	1.57	1.00	0.88	0.57	0.45	0.32
222.01	0.46	0.51	0.50	0.51	0.54	0.52	0.29	0.18	0.16	0.10	0.08	0.06
222.02	0.76	0.84	0.83	0.84	0.89	0.84	0.48	0.31	0.27	0.17	0.14	0.10
222.03	1.58	1.78	2.04	2.03	2.14	1.99	1.17	0.74	0.65	0.42	0.33	0.24
223.01	0.19	0.22	0.22	0.22	0.23	0.22	0.12	0.08	0.07	0.04	0.03	0.02
224.01	0.36	0.64	0.61	0.70	0.74	0.69	0.46	0.29	0.25	0.16	0.13	0.09
225.01	0.39	0.42	0.40	0.41	0.43	0.41	0.23	0.15	0.13	0.08	0.07	0.05
226.01	0.17	0.22	0.24	0.25	0.27	0.24	0.15	0.10	0.08	0.05	0.04	0.03
226.02	0.54	0.61	0.66	0.69	0.72	0.67	0.40	0.25	0.22	0.14	0.11	0.08
226.03	1.26	1.41	1.46	1.49	1.57	1.47	0.86	0.55	0.48	0.31	0.25	0.18
226.04	1.98	2.19	2.20	2.25	2.39	2.23	1.32	0.84	0.73	0.48	0.38	0.27
226.05	7.49	8.35	8.55	8.85	9.47	8.82	5.42	3.47	3.03	1.98	1.56	1.11
226.06	8.60	9.58	9.87	10.17	10.88	10.08	6.16	3.94	3.44	2.24	1.78	1.27
226.07	9.41	10.59	10.83	11.13	11.93	11.18	6.87	4.41	3.84	2.51	1.98	1.41
226.08	9.63	11.17	11.42	11.72	12.52	11.77	7.23	4.65	4.05	2.64	2.09	1.49
227.01	0.14	0.16	0.16	0.16	0.16	0.16	0.08	0.05	0.05	0.03	0.02	0.02
228.01	0.29	0.33	0.33	0.33	0.35	0.34	0.18	0.12	0.10	0.07	0.05	0.04
229.01	0.21	0.24	0.23	0.23	0.25	0.24	0.13	0.08	0.07	0.05	0.04	0.03

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
230.01	0.22	0.24	0.23	0.23	0.25	0.23	0.13	0.09	0.07	0.05	0.04	0.03
231.01	0.24	0.26	0.25	0.26	0.27	0.26	0.15	0.09	0.08	0.05	0.04	0.03
232.01	0.65	0.67	0.64	0.64	0.69	0.65	0.38	0.24	0.21	0.14	0.11	0.08
232.02	1.00	1.07	1.05	1.05	1.12	1.05	0.60	0.39	0.34	0.22	0.17	0.13
232.03	2.25	2.44	2.43	2.44	2.58	2.43	1.41	0.90	0.78	0.51	0.41	0.29
233.01	0.40	0.45	0.45	0.45	0.48	0.46	0.25	0.16	0.14	0.09	0.07	0.05
233.02	0.69	0.76	0.77	0.77	0.81	0.77	0.44	0.28	0.24	0.16	0.13	0.09
234.01	0.47	0.52	0.55	0.59	0.64	0.58	0.37	0.23	0.20	0.13	0.10	0.07
234.02	0.79	0.93	1.03	1.13	1.24	1.11	0.74	0.48	0.41	0.27	0.21	0.15
234.03	2.90	3.26	3.43	3.63	3.94	3.65	2.33	1.49	1.30	0.85	0.67	0.48
235.01	0.05	0.11	0.11	0.14	0.16	0.16	0.11	0.07	0.06	0.04	0.03	0.02
236.01	0.28	0.31	0.30	0.30	0.32	0.31	0.16	0.10	0.09	0.06	0.05	0.03
236.02	0.42	0.46	0.46	0.46	0.49	0.46	0.26	0.16	0.14	0.09	0.07	0.05
237.01	0.33	0.37	0.39	0.40	0.42	0.40	0.23	0.15	0.13	0.08	0.07	0.05
237.02	0.65	0.78	0.86	0.95	1.05	0.94	0.64	0.41	0.36	0.23	0.18	0.13
238.01	0.23	0.27	0.26	0.26	0.28	0.27	0.14	0.09	0.08	0.05	0.04	0.03
238.02	0.58	0.64	0.64	0.64	0.67	0.64	0.36	0.23	0.20	0.13	0.10	0.07
239.01	0.31	0.34	0.34	0.34	0.36	0.35	0.19	0.12	0.10	0.07	0.05	0.04
240.01	0.48	0.73	0.73	0.92	1.09	1.05	0.78	0.52	0.45	0.29	0.23	0.16
240.02	0.96	1.26	1.35	1.53	1.72	1.56	1.15	0.76	0.66	0.42	0.33	0.23
241.01	2.53	4.22	4.19	4.56	4.77	4.37	2.88	1.81	1.57	1.01	0.79	0.55
242.01	0.49	0.51	0.48	0.48	0.52	0.49	0.28	0.18	0.16	0.10	0.08	0.06
242.02	1.21	1.32	1.27	1.28	1.37	1.28	0.75	0.49	0.42	0.28	0.22	0.16
242.03	1.75	1.98	1.89	1.91	2.04	1.92	1.12	0.72	0.63	0.41	0.33	0.23
242.04	1.86	2.10	1.98	2.01	2.13	2.04	1.19	0.77	0.67	0.44	0.35	0.25
242.05	3.59	4.12	4.24	4.29	4.60	4.21	2.66	1.71	1.49	0.97	0.77	0.55
242.06	4.91	5.62	5.70	5.61	5.98	5.70	3.61	2.32	2.02	1.32	1.05	0.75
242.07	5.32	6.01	6.32	6.22	6.63	6.27	3.97	2.55	2.22	1.45	1.15	0.82
242.08	9.58	12.04	12.81	12.85	13.41	12.75	8.07	5.14	4.48	2.90	2.28	1.61
243.01	0.22	0.27	0.29	0.33	0.37	0.33	0.24	0.15	0.13	0.09	0.07	0.05
243.02	1.07	1.21	1.34	1.44	1.57	1.42	0.94	0.60	0.53	0.34	0.27	0.19
244.01	0.32	0.41	0.44	0.50	0.55	0.49	0.33	0.21	0.19	0.12	0.09	0.07
245.01	0.30	0.34	0.33	0.33	0.35	0.34	0.18	0.12	0.10	0.07	0.05	0.04
246.01	0.22	0.24	0.22	0.23	0.24	0.23	0.13	0.08	0.07	0.05	0.04	0.03
246.02	0.52	0.60	0.68	0.67	0.70	0.65	0.38	0.24	0.21	0.14	0.11	0.08
247.01	0.52	0.59	0.65	0.64	0.67	0.63	0.36	0.23	0.20	0.13	0.10	0.07
247.02	1.22	1.57	1.72	1.74	1.82	1.67	1.02	0.64	0.56	0.36	0.28	0.20
248.01	0.54	0.80	0.84	0.85	0.89	0.81	0.51	0.32	0.28	0.18	0.14	0.10
249.01	0.09	0.14	0.15	0.18	0.21	0.21	0.15	0.10	0.09	0.06	0.04	0.03
249.02	0.44	0.53	0.59	0.64	0.70	0.63	0.42	0.28	0.24	0.16	0.12	0.09
249.03	1.03	1.20	1.27	1.33	1.43	1.32	0.82	0.53	0.46	0.30	0.24	0.17
249.04	2.59	2.96	3.05	3.14	3.36	3.11	1.90	1.22	1.06	0.69	0.55	0.39
249.05	7.82	8.76	9.03	9.23	9.80	9.12	5.44	3.47	3.03	1.98	1.56	1.12
249.06	11.45	14.13	15.56	16.31	17.31	16.11	10.08	6.40	5.58	3.62	2.85	2.02
250.01	0.15	0.16	0.15	0.14	0.15	0.14	0.08	0.05	0.05	0.03	0.03	0.02
251.01	0.35	0.37	0.35	0.36	0.38	0.36	0.21	0.13	0.12	0.08	0.06	0.04
252.01	0.37	0.41	0.42	0.44	0.47	0.44	0.27	0.17	0.15	0.10	0.08	0.05
252.02	0.68	0.76	0.77	0.79	0.84	0.79	0.46	0.30	0.26	0.17	0.13	0.10
253.01	0.56	0.61	0.59	0.59	0.63	0.61	0.33	0.21	0.19	0.12	0.10	0.07
253.02	2.13	2.33	2.25	2.29	2.43	2.32	1.30	0.83	0.72	0.47	0.37	0.27
253.03	2.58	2.81	2.71	2.76	2.95	2.80	1.59	1.01	0.88	0.58	0.46	0.33
254.01	0.57	0.62	0.60	0.61	0.65	0.62	0.35	0.23	0.20	0.13	0.10	0.07
255.01	0.50	0.56	0.59	0.62	0.66	0.61	0.37	0.24	0.21	0.14	0.11	0.08
256.01	0.43	0.49	0.51	0.52	0.55	0.52	0.30	0.19	0.16	0.11	0.08	0.06
257.01	0.25	0.28	0.29	0.29	0.30	0.29	0.16	0.10	0.09	0.06	0.05	0.03
258.01	1.11	1.25	1.35	1.32	1.39	1.32	0.74	0.47	0.41	0.27	0.21	0.15
258.02	1.81	2.17	2.43	2.44	2.56	2.35	1.41	0.89	0.78	0.50	0.40	0.28
259.01	0.54	0.59	0.54	0.55	0.58	0.56	0.32	0.21	0.18	0.12	0.10	0.07
259.02	1.14	1.24	1.19	1.20	1.28	1.20	0.70	0.45	0.39	0.26	0.21	0.15
259.03	1.62	1.77	1.70	1.72	1.83	1.72	0.99	0.64	0.56	0.37	0.29	0.21
259.04	2.97	3.21	3.07	3.09	3.29	3.10	1.79	1.17	1.02	0.67	0.53	0.38
259.05	3.61	3.98	3.79	3.83	4.09	3.85	2.23	1.45	1.27	0.83	0.66	0.47
259.06	4.61	5.12	4.84	4.91	5.20	4.97	2.84	1.87	1.64	1.08	0.85	0.61
259.07	5.62	6.57	5.75	5.91	5.90	6.17	3.97	2.61	2.28	1.50	1.19	0.85
259.08	6.24	7.43	6.98	6.54	6.32	6.83	4.72	3.10	2.71	1.77	1.41	1.01
259.09	16.42	20.59	19.67	18.84	19.75	20.17	13.84	8.96	7.81	5.08	4.01	2.84
259.10	16.89	21.21	20.39	19.53	20.48	20.70	14.23	9.20	8.02	5.22	4.11	2.92
260.01	0.34	0.37	0.36	0.36	0.39	0.37	0.20	0.13	0.11	0.07	0.06	0.04
261.01	0.47	0.50	0.47	0.47	0.50	0.48	0.27	0.18	0.16	0.10	0.08	0.06
262.01	0.49	0.54	0.53	0.53	0.57	0.54	0.30	0.19	0.17	0.11	0.09	0.06
262.02	0.91	1.02	0.99	0.99	1.05	1.00	0.57	0.36	0.31	0.21	0.16	0.12
263.01	0.53	0.58	0.56	0.57	0.61	0.58	0.33	0.21	0.18	0.12	0.09	0.07
264.01	0.28	0.31	0.31	0.31	0.33	0.32	0.17	0.11	0.09	0.06	0.05	0.03
265.01	0.38	0.42	0.41	0.42	0.45	0.42	0.24	0.15	0.13	0.09	0.07	0.05
265.02	0.85	1.02	1.12	1.22	1.31	1.19	0.77	0.49	0.42	0.28	0.22	0.15
265.03	1.33	1.86	1.97	2.16	2.32	2.12	1.40	0.89	0.77	0.50	0.39	0.28
265.04	7.71	9.40	9.25	9.43	9.95	9.81	6.54	4.21	3.67	2.38	1.88	1.33
266.01	0.45	0.51	0.55	0.59	0.64	0.58	0.36	0.23	0.20	0.13	0.10	0.07
266.02	0.91	1.02	1.07	1.13	1.22	1.12	0.70	0.45	0.39	0.25	0.20	0.14
266.03	1.13	1.26	1.28	1.33	1.44	1.33	0.83	0.53	0.46	0.30	0.24	0.17
266.04	4.14	4.68	4.77	4.92	5.36	5.11	3.32	2.14	1.87	1.22	0.96	0.68
266.05	4.99	5.71	5.61	5.83	6.20	6.10	4.00	2.58	2.25	1.47	1.16	0.82
267.01	0.44	0.50	0.50	0.50	0.53	0.51	0.28	0.18	0.16	0.10	0.08	0.06
268.01	0.79	0.86	0.85	0.86	0.92	0.87	0.50	0.32	0.28	0.18	0.14	0.10
268.02	2.00	2.24	2.31	2.43	2.63	2.41	1.51	0.97	0.84	0.55	0.43	0.31
269.01	0.30	0.37	0.40	0.44	0.48	0.43	0.28	0.18	0.16	0.10	0.08	0.06
270.01	0.32	0.43	0.45	0.50	0.53	0.47	0.31	0.20	0.17	0.11	0.09	0.06
271.01	0.21	0.27	0.29	0.31	0.32	0.29	0.19	0.12	0.10	0.07	0.05	0.04
272.01	0.46	0.60	0.64	0.72	0.79	0.70	0.48	0.30	0.27	0.17	0.13	0.10
272.02	1.08	1.29	1.44	1.51	1.62	1.47	0.94	0.60	0.52	0.34	0.27	0.19
272.03	1.86	2.13	2.41	2.46	2.61	2.40	1.47	0.93	0.81	0.53	0.41	0.29
273.01	0.52	0.59	0.68	0.67	0.70	0.65	0.38	0.24	0.21	0.13	0.11	0.08
274.01	0.20	0.25	0.27	0.31	0.37	0.34	0.27	0.21	0.18	0.12	0.09	0.07

Subcatchment ID	Peak Discharge (m ³ /s)											
	10 min	20 min	30 min	60 min	90 min	120 min	180 min	360 min	720 min	1440 min	2880 min	4320 min
274.02	1.10	1.24	1.28	1.32	1.43	1.31	0.83	0.57	0.50	0.33	0.26	0.18
274.03	2.67	2.96	2.97	3.04	3.24	3.01	1.82	1.21	1.05	0.69	0.55	0.39
274.04	3.49	3.87	3.84	3.90	4.17	3.91	2.33	1.54	1.34	0.88	0.70	0.50
274.05	4.17	5.02	5.17	5.26	5.59	5.25	3.07	2.01	1.75	1.15	0.91	0.65
275.01	0.52	0.56	0.54	0.55	0.58	0.56	0.31	0.20	0.17	0.11	0.09	0.06
276.01	0.35	0.40	0.39	0.40	0.42	0.40	0.22	0.14	0.12	0.08	0.06	0.04
277.01	0.44	0.50	0.53	0.52	0.55	0.52	0.29	0.18	0.16	0.10	0.08	0.06
278.01	0.27	0.31	0.30	0.31	0.33	0.31	0.17	0.11	0.09	0.06	0.05	0.03
278.02	3.19	4.23	4.60	4.61	4.83	4.38	2.72	1.71	1.49	0.96	0.75	0.53
279.01	0.46	0.55	0.61	0.63	0.66	0.60	0.37	0.23	0.20	0.13	0.10	0.07
279.02	3.26	3.95	4.48	4.40	4.61	4.25	2.52	1.59	1.38	0.89	0.70	0.49
280.01	0.42	0.49	0.54	0.56	0.59	0.55	0.33	0.21	0.18	0.12	0.09	0.07



Appendix E

Design Rainfall



Storm Duration	ARR2019 Design Rainfall Depth (mm)							
	50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP	0.5% AEP	0.2% AEP
1 min	2.29	3.13	3.74	4.36	5.22	5.91	6.40	7.19
2 min	3.70	5.00	5.94	6.91	8.30	9.43	10.3	11.7
3 min	5.15	6.99	8.32	9.68	11.6	13.2	14.4	16.3
4 min	6.50	8.85	10.5	12.3	14.7	16.7	18.1	20.5
5 min	7.71	10.5	12.6	14.6	17.5	19.9	21.6	24.2
10 min	12.3	16.9	20.1	23.5	28.1	31.8	34.4	38.5
15 min	15.3	21.0	25.1	29.3	35.1	39.7	42.8	48.1
20 min	17.5	24.0	28.7	33.5	40.1	45.3	49.0	55.0
25 min	19.2	26.3	31.5	36.7	43.9	49.7	53.8	60.5
30 min	20.6	28.3	33.8	39.3	47.1	53.4	57.8	65.0
45 min	23.9	32.7	38.9	45.4	54.3	61.5	66.8	75.1
1 hour	26.4	36.0	42.9	49.9	59.7	67.7	73.5	82.7
1.5 hour	30.2	41.2	49.1	57.1	68.3	77.3	83.9	94.5
2 hour	33.4	45.6	54.2	63.1	75.5	85.4	92.6	104
3 hour	38.7	53.0	63.2	73.5	87.8	99.3	107	121
4.5 hour	45.4	62.6	74.7	87.1	104	117	126	142
6 hour	51.2	71.0	85.0	99.2	118	133	143	161
9 hour	61.2	85.7	103	120	144	162	174	194
12 hour	69.6	98.3	119	139	166	187	200	224
18 hour	83.5	119	145	170	203	229	246	276
24 hour	94.6	136	166	195	234	263	285	320
30 hour	104	150	183	216	259	292	323	367
36 hour	111	161	197	234	280	316	353	403
48 hour	123	180	220	261	313	353	397	455
72 hour	138	203	249	295	354	400	448	512
96 hour	148	216	265	314	377	424	473	538
120 hour	154	225	275	325	388	437	485	551
144 hour	158	230	281	331	394	441	491	555
168 hour	161	234	284	335	396	442	493	556

Storm Duration	ARR1987 Design Rainfall Depth (mm)					
	50% AEP	20% AEP	10% AEP	5% AEP	2% AEP	1% AEP
5 min	8.8	11.2	12.6	14.4	16.8	18.6
10 min	13.5	17.2	19.3	22.0	25.7	28.5
20 min	19.8	25.1	28.2	32.3	37.7	41.7
30 min	24.1	30.7	34.4	39.5	45.9	51.0
1 hour	32.5	41.4	46.5	53.3	62.2	68.9
1.50 hour	37.6	48.4	54.1	62.2	72.6	80.5
2 hours	41.8	53.6	60.4	69.4	81.2	90.0
3 hours	48.0	61.8	69.6	80.1	93.9	104.1
6 hours	60.6	78.0	88.2	102.0	119.4	133.2
12 hours	76.2	99.4	112.9	130.8	153.6	171.6
24 hours	97.2	127.9	146.2	169.9	201.4	225.4
48 hours	121.4	162.2	186.7	217.9	260.2	291.8
72 hours	133.9	180.7	208.1	244.1	292.3	329.0

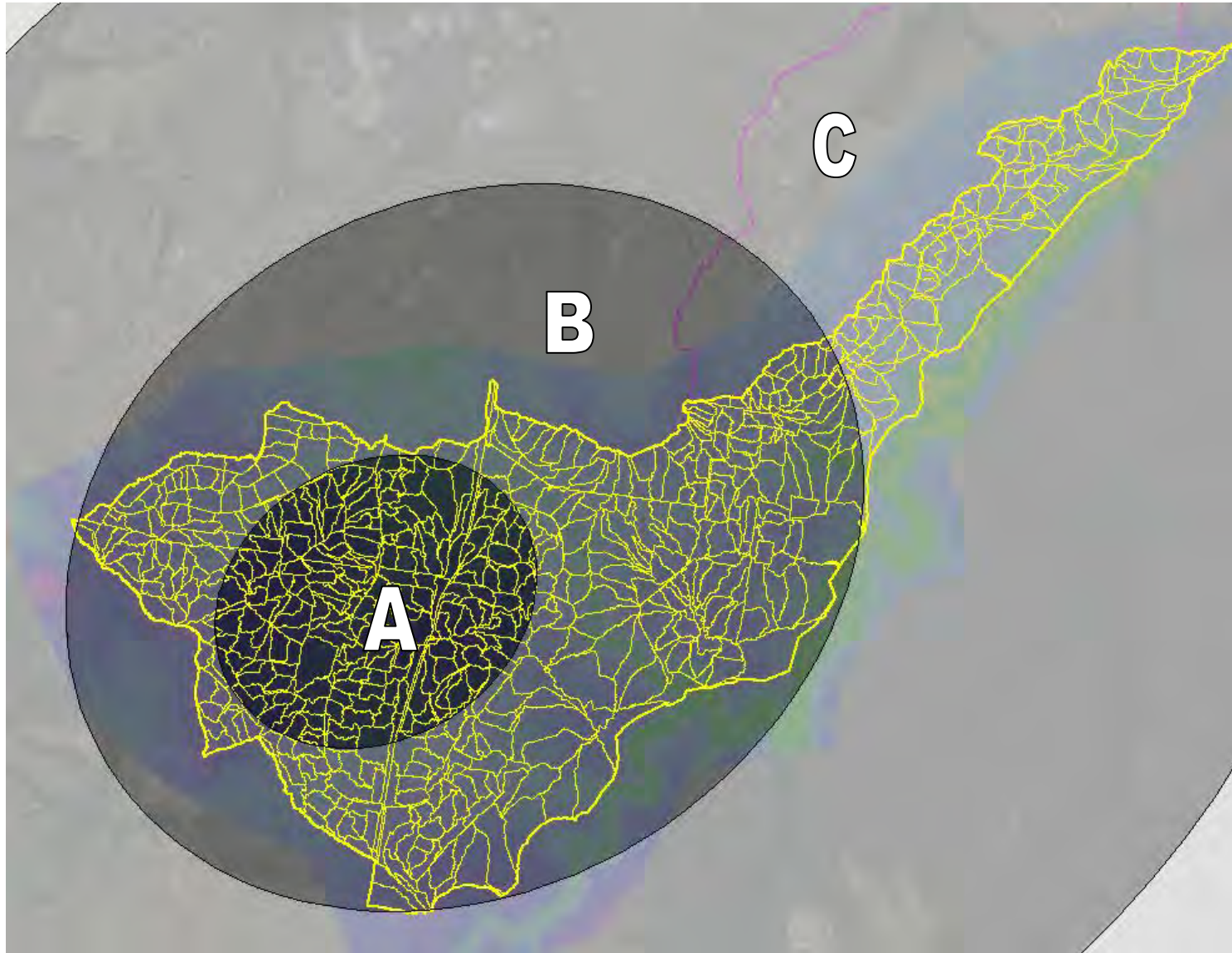
GSDM CALCULATION SHEET

LOCATION INFORMATION				
Catchment	<u>Campbelltown Southern</u> <u>Catchments</u>		Area	<u>10.20 km²</u>
State	<u>New South Wales</u>		Duration Limit	<u>6.0 hrs</u>
Latitude	<u>34.1005°S</u>		Longitude	<u>150.8099°E</u>
Portion of Area Considered:				
Smooth, S =	<u>0.00</u>	(0.0 - 1.0)	Rough, R =	<u>1.00</u> (0.0 - 1.0)
ELEVATION ADJUSTMENT FACTOR (EAF)				
Mean Elevation	<u>137 m</u>			
Adjustment for Elevation (-0.05 per 300m above 1500m)	<u>0.00</u>			
EAF =	<u>1.00</u>	(0.85 – 1.00)		
MOISTURE ADJUSTMENT FACTOR (MAF)				
MAF =	<u>0.69</u>	(0.40-1.00)		
PMP VALUES (mm)				
Duration (hours)	Initial Depth -Smooth (D _S)	Initial Depth -Rough (D _R)	PMP Estimate = (D _S xS + D _R xR) x MAF x EAF	Rounded PMP Estimate (nearest 10 mm)
0.25	212	212	146	150
0.50	312	312	215	220
0.75	392	392	270	270
1.00	463	463	319	320
1.50	528	591	409	410
2.00	591	693	480	480
2.50	629	763	528	530
3.00	661	835	579	580
4.00	728	957	663	660
5.00	783	1052	729	730
6.00	830	1118	775	780

Prepared By D Fedczyna
 Checked By D Tetley

Date 25/07/2022
 Date 25/07/2022

GSDM SPATIAL DISTRIBUTION



GSDM SPATIAL DISTRIBUTION

DURATION = 0.25 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	232	160	416	416	160
B	6.19	8.79	214	148	1299	884	143
C	1.61	10.40	211	146	1517	218	136
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DURATION = 0.50 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	336	232	602	602	232
B	6.19	8.79	314	217	1907	1305	211
C	1.61	10.40	311	215	2233	326	203
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A

GSDM SPATIAL DISTRIBUTION (continued)

DURATION = 0.75 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	425	293	761	761	293
B	6.19	8.79	399	275	2419	1658	268
C	1.61	10.40	391	270	2808	389	242
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DURATION = 1.0 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	493	340	883	883	340
B	6.19	8.79	466	321	2824	1941	313
C	1.61	10.40	462	319	3315	491	305
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A

GSDM SPATIAL DISTRIBUTION (continued)

DURATION = 1.5 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	637	440	1142	1142	440
B	6.19	8.79	598	413	3628	2486	401
C	1.61	10.40	592	409	4248	621	386
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DURATION = 2.0 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	746	515	1337	1337	515
B	6.19	8.79	701	484	4252	2915	471
C	1.61	10.40	695	479	4983	731	455
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A

GSDM SPATIAL DISTRIBUTION (continued)

DURATION = 2.5 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	824	569	1476	1476	569
B	6.19	8.79	773	533	4686	3211	518
C	1.61	10.40	765	528	5490	803	499
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DURATION = 3.0 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	905	624	1621	1621	624
B	6.19	8.79	847	584	5135	3515	567
C	1.61	10.40	838	578	6010	875	544
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A

GSDM SPATIAL DISTRIBUTION (continued)

DURATION = 4.0 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	1035	714	1854	1854	714
B	6.19	8.79	971	670	5889	4035	651
C	1.61	10.40	960	663	6890	1001	622
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DURATION = 5.0 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	1141	787	2044	2044	787
B	6.19	8.79	1068	737	6476	4433	716
C	1.61	10.40	1056	729	7576	1099	684
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A

GSDM SPATIAL DISTRIBUTION (continued)

DURATION = 6.0 Hours							
Ellipse	Catchment Area Between Ellipse (km ²)	Catchment Area Enclosed by Ellipse (km ²)	Initial Mean Rainfall Depth (mm)	Adjusted Mean Rainfall Depth (mm)	Rainfall Volume enclosed by Ellipse (mm.km ²)	Rainfall Volume between Ellipses (mm.km ²)	Mean Rainfall Depth between ellipses (mm)
A	2.60	2.60	1206	832	2161	2161	832
B	6.19	8.79	1134	783	6880	4719	762
C	1.61	10.40	1122	774	8052	1172	729
D	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
F	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
H	N/A	N/A	N/A	N/A	N/A	N/A	N/A
I	N/A	N/A	N/A	N/A	N/A	N/A	N/A
J	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Appendix F

XP-RAFTS Model Outputs (ARR2019)



ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-1.01	10 min	4386	0.43	0.42	0.03	0.42	0.42	0.42	0.39	0.37	0.21	0.42	0.00	0.1%
SC-1.02	10 min	4386	0.96	0.93	0.08	0.95	0.91	0.93	0.85	0.80	0.46	0.93	-0.02	-1.9%
SC-1.03	10 min	4386	1.15	1.12	0.09	1.14	1.10	1.12	1.02	0.97	0.55	1.12	-0.02	-2.2%
SC-1.04	10 min	4388	3.00	2.93	0.25	2.94	2.94	2.84	2.74	2.61	1.50	2.94	0.00	0.0%
SC-1.05	10 min	4386	3.26	3.19	0.22	3.19	3.19	3.13	2.97	2.82	1.63	3.19	0.00	0.1%
SC-1.06	10 min	4386	3.78	3.70	0.22	3.70	3.70	3.61	3.46	3.29	1.87	3.70	0.00	0.1%
SC-1.07	10 min	4386	3.85	3.78	0.20	3.80	3.75	3.71	3.52	3.34	1.91	3.75	-0.05	-1.2%
SC-1.08	1.50 hour	4608	2.86	2.93	0.35	2.93	1.00	1.10	1.12	2.48	2.92	2.92	-0.01	-0.3%
SC-1.09	2 hours	4643	3.06	2.99	0.38	3.19	2.47	2.15	2.41	2.61	3.19	3.19	0.00	0.0%
SC-1.10	2 hours	4643	3.10	3.04	0.38	3.24	2.63	2.33	2.63	2.62	3.24	3.24	0.00	-0.1%
SC-1.11	10 min	4384	6.96	6.81	0.40	6.86	7.06	6.39	6.88	6.57	4.42	7.06	0.20	3.0%
SC-1.12	10 min	4384	8.57	8.43	0.42	8.52	8.69	7.89	8.50	8.15	4.95	8.69	0.17	2.0%
SC-1.13	10 min	4391	9.56	9.50	0.23	9.54	9.55	9.00	9.54	9.17	5.39	9.55	0.01	0.1%
SC-1.14	10 min	4384	11.15	11.04	0.23	11.06	11.23	10.63	11.36	10.99	6.39	11.36	0.30	2.7%
SC-1.15	10 min	4389	12.03	11.89	0.24	11.89	12.06	11.58	12.43	11.96	6.93	12.43	0.54	4.6%
SC-1.16	20 min	4449	13.45	13.32	0.95	13.33	12.55	12.81	14.00	13.38	7.99	14.00	0.67	5.0%
SC-1.17	20 min	4449	13.64	13.51	0.91	13.63	12.58	12.94	14.18	13.55	8.16	14.18	0.55	4.0%
SC-1.18	45 min	4547	12.07	12.19	0.76	12.19	10.48	11.30	12.37	12.19	8.31	12.37	0.18	1.5%
SC-1.19	45 min	4553	9.93	9.81	0.27	9.81	7.34	8.73	8.88	9.79	9.28	9.79	-0.02	-0.2%
SC-1.20	45 min	4547	9.86	9.82	0.22	9.82	6.96	8.52	8.62	9.82	9.34	9.82	0.00	0.0%
SC-1.21	45 min	4547	9.89	9.84	0.20	9.84	6.97	8.53	8.63	9.84	9.44	9.84	0.00	0.0%
SC-1.22	1.50 hour	4603	10.24	10.30	0.26	10.30	6.98	8.55	8.65	9.89	9.88	9.89	-0.41	-4.0%
SC-1.23	1 hour	4578	13.33	13.47	1.34	13.69	9.74	9.96	10.00	11.21	11.39	11.39	-2.30	-16.8%
SC-1.24	1 hour	4578	17.35	17.23	2.33	18.02	15.86	14.93	15.85	15.43	14.22	15.86	-2.16	-12.0%
SC-1.25	1 hour	4578	17.61	17.53	2.42	18.17	15.91	15.26	16.32	15.80	14.53	16.32	-1.85	-10.2%
SC-1.26	45 min	4549	18.69	19.25	1.79	19.25	16.05	16.36	17.61	16.91	15.52	17.61	-1.64	-8.5%
SC-1.27	45 min	4549	19.02	19.67	1.81	19.67	16.12	16.65	17.85	17.22	15.78	17.85	-1.82	-9.3%
SC-1.28	45 min	4551	24.44	25.24	2.27	25.24	18.66	21.54	23.47	22.51	19.71	23.47	-1.77	-7.0%
SC-1.29	45 min	4551	26.09	26.90	2.27	26.90	18.89	23.20	25.06	24.19	21.16	25.06	-1.84	-6.9%
SC-1.30	45 min	4553	26.62	27.49	2.24	27.49	19.05	23.63	25.48	24.78	21.61	25.48	-2.01	-7.3%
SC-1.31	45 min	4553	26.98	27.75	2.21	27.75	19.16	23.95	25.75	25.21	21.96	25.75	-2.00	-7.2%
SC-1.32	45 min	4553	27.53	28.08	2.14	28.08	19.27	24.35	26.08	25.86	22.47	26.08	-2.00	-7.1%
SC-1.33	45 min	4553	28.59	28.54	1.90	28.54	19.45	24.92	26.53	27.32	23.64	27.32	-1.22	-4.3%
SC-1.34	45 min	4553	28.77	28.58	1.81	28.58	19.48	24.98	26.58	27.71	23.95	27.71	-0.87	-3.0%
SC-1.35	45 min	4553	29.00	28.64	1.72	28.64	19.52	25.09	26.64	28.11	24.19	28.11	-0.53	-1.8%
SC-1.36	45 min	4547	30.29	30.48	1.34	30.48	19.68	25.55	26.99	30.48	25.99	30.48	0.00	0.0%
SC-10.01	10 min	4386	0.46	0.46	0.04	0.47	0.43	0.46	0.39	0.37	0.19	0.46	-0.01	-2.6%
SC-100.01	10 min	4386	0.55	0.54	0.05	0.56	0.50	0.55	0.45	0.43	0.22	0.55	-0.01	-2.3%
SC-100.02	10 min	4386	0.96	0.93	0.08	0.95	0.90	0.93	0.82	0.77	0.40	0.93	-0.02	-1.7%
SC-101.01	10 min	4387	0.57	0.56	0.05	0.57	0.52	0.57	0.49	0.47	0.25	0.57	0.00	0.1%
SC-101.02	10 min	4386	1.00	0.98	0.07	0.99	0.96	0.98	0.89	0.85	0.45	0.98	-0.01	-1.3%
SC-102.01	10 min	4386	0.45	0.44	0.04	0.45	0.42	0.44	0.38	0.36	0.19	0.44	-0.01	-1.8%
SC-102.02	10 min	4388	1.71	1.67	0.13	1.68	1.68	1.64	1.55	1.47	0.76	1.68	0.00	-0.1%
SC-103.01	10 min	4386	0.30	0.30	0.02	0.31	0.28	0.30	0.26	0.24	0.12	0.30	-0.01	-2.6%
SC-103.02	10 min	4386	1.05	1.03	0.08	1.03	1.02	1.01	0.94	0.90	0.46	1.02	-0.01	-0.8%
SC-104.01	10 min	4386	0.27	0.27	0.02	0.28	0.25	0.27	0.23	0.22	0.11	0.27	-0.01	-3.0%
SC-105.01	10 min	4386	0.29	0.29	0.02	0.29	0.27	0.29	0.25	0.24	0.12	0.29	0.00	-0.4%
SC-105.02	10 min	4388	0.68	0.67	0.05	0.67	0.67	0.64	0.62	0.59	0.30	0.67	0.00	-0.1%
SC-105.03	10 min	4388	1.58	1.57	0.12	1.57	1.57	1.48	1.45	1.38	0.71	1.57	0.00	0.3%
SC-105.04	10 min	4388	2.14	2.09	0.17	2.10	2.10	2.03	1.97	1.87	0.97	2.10	0.00	-0.2%
SC-105.05	10 min	4388	2.53	2.49	0.20	2.49	2.49	2.41	2.37	2.26	1.20	2.49	0.00	0.1%
SC-105.06	10 min	4388	2.61	2.57	0.21	2.57	2.57	2.47	2.52	2.40	1.34	2.57	0.00	0.1%
SC-105.07	10 min	4386	3.92	3.84	0.23	3.88	3.79	3.80	3.66	3.51	2.05	3.80	-0.08	-2.1%
SC-105.08	10 min	4387	4.48	4.45	0.19	4.45	4.23	4.43	4.16	3.97	2.35	4.43	-0.02	-0.4%
SC-105.09	10 min	4385	6.16	6.16	0.04	6.16	6.11	5.97	5.69	5.47	3.03	6.11	-0.05	-0.7%
SC-106.01	10 min	4387	0.21	0.21	0.02	0.22	0.19	0.22	0.18	0.17	0.09	0.22	0.00	-2.0%
SC-107.01	10 min	4386	0.37	0.37	0.03	0.38	0.34	0.37	0.32	0.30	0.15	0.37	-0.01	-2.8%
SC-108.01	10 min	4386	0.27	0.26	0.02	0.27	0.25	0.27	0.23	0.21	0.11	0.27	0.00	-1.6%
SC-109.01	10 min	4386	0.35	0.34	0.03	0.35	0.32	0.34	0.29	0.28	0.15	0.34	-0.01	-2.9%
SC-11.01	10 min	4386	0.29	0.28	0.02	0.29	0.26	0.29	0.25	0.23	0.12	0.29	-0.01	-1.7%
SC-110.01	10 min	4386	0.31	0.30	0.02	0.31	0.30	0.31	0.27	0.26	0.13	0.31	0.00	-1.3%
SC-110.02	10 min	4388	0.73	0.71	0.05	0.71	0.71	0.70	0.66	0.63	0.33	0.71	0.00	0.6%
SC-110.03	10 min	4386	0.79	0.77	0.06	0.77	0.77	0.76	0.71	0.68	0.36	0.77	0.00	-0.2%
SC-111.01	45 min	4553	0.18	0.19	0.03	0.19	0.09	0.16	0.15	0.15	0.11	0.16	-0.03	-17.8%
SC-112.01	10 min	4386	0.53	0.52	0.04	0.52	0.51	0.51	0.46	0.43	0.23	0.51	-0.01	-1.5%
SC-113.01	10 min	4387	0.20	0.20	0.02	0.20	0.18	0.20	0.17	0.16	0.08	0.20	0.00	1.8%
SC-113.02	10 min	4386	0.63	0.62	0.04	0.62	0.61	0.61	0.57	0.54	0.30	0.61	-0.01	-0.9%
SC-114.01	10 min	4386	0.33	0.32	0.03	0.32	0.32	0.32	0.29	0.28	0.16	0.32	0.00	-0.4%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-114.02	10 min	4386	0.54	0.53	0.04	0.53	0.52	0.52	0.49	0.47	0.26	0.52	-0.01	-1.2%
SC-114.03	10 min	4386	1.15	1.12	0.09	1.13	1.11	1.11	1.01	0.96	0.52	1.11	-0.02	-1.9%
SC-115.01	10 min	4386	0.30	0.29	0.02	0.30	0.29	0.30	0.26	0.25	0.13	0.30	0.00	-1.3%
SC-115.02	10 min	4386	0.50	0.49	0.04	0.49	0.48	0.48	0.45	0.43	0.22	0.48	-0.01	-1.2%
SC-116.01	10 min	4386	0.30	0.29	0.02	0.30	0.29	0.29	0.26	0.25	0.13	0.29	-0.01	-2.8%
SC-116.02	10 min	4386	0.50	0.49	0.04	0.50	0.48	0.49	0.44	0.42	0.22	0.49	-0.01	-2.6%
SC-117.01	10 min	4387	0.19	0.19	0.01	0.19	0.17	0.19	0.15	0.15	0.08	0.19	0.00	-0.2%
SC-118.01	10 min	4386	0.39	0.38	0.03	0.38	0.37	0.38	0.33	0.31	0.16	0.38	0.00	-1.1%
SC-119.01	10 min	4386	0.60	0.58	0.05	0.59	0.58	0.58	0.52	0.49	0.26	0.58	-0.01	-2.1%
SC-119.02	10 min	4386	1.52	1.48	0.12	1.51	1.44	1.49	1.32	1.24	0.66	1.49	-0.02	-1.6%
SC-12.01	10 min	4386	0.33	0.32	0.03	0.33	0.31	0.32	0.28	0.26	0.14	0.32	-0.01	-3.1%
SC-12.02	10 min	4386	0.57	0.56	0.04	0.58	0.53	0.57	0.48	0.46	0.24	0.57	-0.01	-2.5%
SC-12.03	10 min	4386	1.08	1.05	0.08	1.07	1.02	1.05	0.93	0.88	0.46	1.05	-0.02	-1.8%
SC-12.04	10 min	4386	1.37	1.34	0.10	1.35	1.32	1.33	1.20	1.13	0.60	1.33	-0.02	-1.6%
SC-120.01	10 min	4386	0.27	0.26	0.02	0.27	0.25	0.27	0.23	0.22	0.11	0.27	0.00	-1.6%
SC-121.01	10 min	4386	0.33	0.32	0.03	0.33	0.32	0.32	0.29	0.27	0.14	0.32	-0.01	-1.7%
SC-122.01	10 min	4386	0.55	0.54	0.05	0.55	0.51	0.54	0.46	0.43	0.22	0.54	-0.01	-2.0%
SC-122.02	10 min	4386	0.89	0.87	0.07	0.89	0.84	0.87	0.76	0.72	0.37	0.87	-0.02	-2.3%
SC-122.03	10 min	4386	1.18	1.15	0.09	1.16	1.15	1.14	1.06	0.99	0.51	1.15	-0.01	-1.3%
SC-123.01	10 min	4386	0.28	0.28	0.02	0.28	0.27	0.28	0.24	0.23	0.12	0.28	0.00	-0.8%
SC-123.02	10 min	4388	0.81	0.79	0.06	0.79	0.79	0.77	0.71	0.67	0.35	0.79	0.00	-0.4%
SC-123.03	10 min	4388	5.33	5.26	0.41	5.28	5.28	5.02	4.88	4.65	2.77	5.28	0.00	0.0%
SC-123.04	10 min	4388	5.44	5.36	0.42	5.38	5.38	5.15	4.97	4.72	2.82	5.38	0.00	0.0%
SC-123.05	10 min	4386	6.97	6.81	0.44	6.83	6.80	6.69	6.29	5.94	3.52	6.80	-0.03	-0.5%
SC-123.06	10 min	4386	7.16	7.01	0.38	7.09	6.93	6.94	6.44	6.13	3.63	6.94	-0.15	-2.1%
SC-123.07	10 min	4387	7.46	7.38	0.37	7.48	7.04	7.33	6.87	6.48	3.93	7.33	-0.15	-2.0%
SC-124.01	45 min	4549	0.26	0.27	0.03	0.27	0.22	0.23	0.23	0.23	0.19	0.23	-0.04	-14.2%
SC-124.02	20 min	4451	1.92	1.88	0.25	1.92	1.87	1.77	1.83	1.78	1.22	1.87	-0.05	-2.7%
SC-125.01	45 min	4549	0.36	0.37	0.05	0.37	0.27	0.31	0.32	0.32	0.25	0.32	-0.05	-12.9%
SC-126.01	10 min	4386	0.26	0.25	0.02	0.26	0.24	0.26	0.22	0.21	0.11	0.26	0.00	-1.8%
SC-126.02	20 min	4451	0.50	0.50	0.07	0.52	0.47	0.45	0.48	0.48	0.35	0.48	-0.04	-7.0%
SC-126.03	20 min	4451	1.07	1.03	0.14	1.03	1.05	1.02	1.01	0.99	0.63	1.05	0.02	2.3%
SC-127.01	10 min	4386	0.61	0.60	0.05	0.61	0.56	0.60	0.51	0.48	0.24	0.60	-0.01	-1.9%
SC-127.02	10 min	4386	1.67	1.62	0.13	1.66	1.58	1.63	1.43	1.34	0.69	1.63	-0.03	-1.9%
SC-128.01	10 min	4386	0.59	0.58	0.05	0.59	0.56	0.58	0.51	0.48	0.25	0.58	-0.01	-2.4%
SC-129.01	10 min	4386	0.28	0.28	0.02	0.28	0.26	0.28	0.25	0.24	0.13	0.28	0.00	-0.9%
SC-13.01	10 min	4386	0.30	0.29	0.02	0.30	0.28	0.29	0.26	0.24	0.13	0.29	-0.01	-2.1%
SC-130.01	10 min	4386	0.44	0.43	0.04	0.44	0.41	0.43	0.38	0.35	0.18	0.43	-0.01	-1.5%
SC-131.01	10 min	4382	0.18	0.18	0.01	0.18	0.16	0.19	0.15	0.14	0.07	0.19	0.01	4.1%
SC-132.01	10 min	4386	0.25	0.25	0.02	0.25	0.23	0.25	0.21	0.20	0.11	0.25	0.00	-1.2%
SC-133.01	10 min	4387	0.19	0.19	0.01	0.19	0.17	0.19	0.15	0.14	0.07	0.19	0.00	-0.6%
SC-134.01	10 min	4387	0.15	0.15	0.01	0.15	0.14	0.16	0.13	0.12	0.07	0.16	0.01	3.5%
SC-134.02	10 min	4389	0.47	0.47	0.03	0.47	0.49	0.43	0.45	0.43	0.24	0.49	0.02	3.4%
SC-134.03	20 min	4446	0.89	0.88	0.12	0.89	0.88	0.74	0.90	0.87	0.50	0.90	0.01	1.0%
SC-134.04	20 min	4450	1.18	1.16	0.20	1.21	1.12	0.93	1.21	1.18	0.71	1.21	0.00	-0.3%
SC-135.01	10 min	4382	0.13	0.13	0.01	0.13	0.11	0.13	0.11	0.10	0.05	0.13	0.00	-0.2%
SC-135.02	10 min	4386	0.69	0.67	0.05	0.68	0.66	0.67	0.60	0.57	0.30	0.67	-0.01	-1.1%
SC-135.03	10 min	4386	0.91	0.89	0.07	0.89	0.88	0.88	0.80	0.76	0.40	0.88	-0.01	-1.2%
SC-135.04	10 min	4388	2.02	1.98	0.15	1.98	1.98	1.93	1.79	1.69	0.89	1.98	0.00	0.1%
SC-135.05	10 min	4388	2.29	2.24	0.14	2.25	2.25	2.19	2.05	1.94	1.02	2.25	0.00	-0.1%
SC-135.06	10 min	4380	3.61	3.60	0.23	3.60	3.61	3.38	3.43	3.26	1.72	3.61	0.01	0.3%
SC-136.01	10 min	4386	0.36	0.35	0.03	0.36	0.34	0.35	0.31	0.29	0.15	0.35	-0.01	-3.2%
SC-137.01	10 min	4386	0.38	0.37	0.03	0.38	0.35	0.37	0.32	0.30	0.16	0.37	-0.01	-2.4%
SC-138.01	10 min	4386	0.47	0.46	0.03	0.47	0.44	0.47	0.40	0.37	0.20	0.47	0.00	-0.7%
SC-139.01	10 min	4386	0.42	0.41	0.04	0.42	0.41	0.41	0.37	0.35	0.19	0.41	-0.01	-2.1%
SC-139.02	10 min	4386	0.52	0.50	0.04	0.51	0.50	0.50	0.46	0.44	0.23	0.50	-0.01	-2.3%
SC-14.01	10 min	4386	0.53	0.52	0.04	0.53	0.49	0.52	0.44	0.42	0.22	0.52	-0.01	-1.1%
SC-14.02	10 min	4386	0.84	0.82	0.06	0.84	0.79	0.82	0.72	0.68	0.36	0.82	-0.02	-2.4%
SC-14.03	10 min	4386	1.09	1.06	0.08	1.07	1.04	1.05	0.96	0.91	0.48	1.05	-0.02	-1.7%
SC-140.01	10 min	4386	0.30	0.30	0.02	0.30	0.29	0.30	0.26	0.25	0.13	0.30	0.00	-1.2%
SC-141.01	20 min	4452	0.40	0.40	0.10	0.41	0.35	0.30	0.43	0.43	0.23	0.43	0.02	4.0%
SC-142.01	45 min	4549	0.60	0.63	0.10	0.63	0.44	0.51	0.51	0.52	0.39	0.52	-0.11	-18.1%
SC-143.01	10 min	4388	0.25	0.24	0.02	0.24	0.24	0.24	0.23	0.22	0.17	0.24	0.00	0.6%
SC-143.02	20 min	4451	2.30	2.22	0.33	2.24	2.23	2.14	2.20	2.13	1.21	2.23	-0.01	-0.4%
SC-144.01	10 min	4386	0.35	0.35	0.03	0.35	0.34	0.35	0.31	0.29	0.17	0.35	0.00	-0.7%
SC-144.02	10 min	4386	0.51	0.49	0.04	0.50	0.48	0.49	0.45	0.42	0.25	0.49	-0.01	-1.0%
SC-144.03	10 min	4386	0.66	0.66	0.02	0.66	0.65	0.64	0.60	0.58	0.34	0.65	-0.01	-1.7%
SC-144.04	10 min	4389	1.15	1.15	0.04	1.15	1.17	1.08	1.08	1.06	0.59	1.17	0.02	2.0%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-144.05	10 min	4389	2.12	2.09	0.11	2.09	2.16	1.95	2.11	2.02	1.10	2.16	0.07	3.4%
SC-145.01	10 min	4386	0.47	0.47	0.03	0.47	0.44	0.47	0.40	0.37	0.19	0.47	0.00	-0.5%
SC-145.02	10 min	4386	0.84	0.82	0.06	0.83	0.82	0.81	0.75	0.70	0.36	0.82	-0.01	-1.1%
SC-146.01	45 min	4553	0.71	0.76	0.12	0.76	0.30	0.59	0.62	0.58	0.42	0.62	-0.14	-18.7%
SC-147.01	20 min	4449	0.34	0.34	0.08	0.35	0.24	0.26	0.33	0.34	0.20	0.34	-0.01	-3.8%
SC-147.02	45 min	4547	0.48	0.49	0.08	0.49	0.36	0.37	0.50	0.49	0.28	0.50	0.01	2.9%
SC-147.03	20 min	4451	1.28	1.30	0.31	1.38	1.06	0.94	1.39	1.36	0.73	1.39	0.01	0.6%
SC-148.01	10 min	4386	0.37	0.37	0.03	0.38	0.34	0.37	0.32	0.30	0.16	0.37	-0.01	-2.8%
SC-148.02	20 min	4451	0.71	0.67	0.15	0.72	0.67	0.55	0.75	0.74	0.37	0.75	0.03	4.8%
SC-149.01	10 min	4386	0.27	0.26	0.02	0.26	0.26	0.26	0.24	0.22	0.14	0.26	0.00	-0.5%
SC-149.02	20 min	4450	0.73	0.73	0.19	0.78	0.57	0.53	0.78	0.79	0.42	0.79	0.01	0.9%
SC-15.01	10 min	4386	0.53	0.52	0.04	0.52	0.51	0.51	0.47	0.44	0.23	0.51	-0.01	-1.3%
SC-15.02	10 min	4386	0.71	0.69	0.06	0.70	0.68	0.68	0.62	0.58	0.31	0.68	-0.02	-2.3%
SC-15.03	10 min	4388	1.14	1.11	0.09	1.11	1.11	1.08	1.01	0.95	0.51	1.11	0.00	0.3%
SC-150.01	10 min	4386	0.32	0.31	0.03	0.32	0.30	0.31	0.27	0.26	0.13	0.31	-0.01	-1.8%
SC-150.02	10 min	4386	0.63	0.62	0.05	0.62	0.61	0.61	0.56	0.53	0.28	0.61	-0.01	-1.2%
SC-150.03	10 min	4388	1.64	1.60	0.13	1.61	1.61	1.56	1.46	1.38	0.72	1.61	0.00	-0.2%
SC-150.04	10 min	4386	2.12	2.08	0.15	2.08	2.07	2.04	1.89	1.79	0.95	2.07	-0.01	-0.3%
SC-150.05	10 min	4388	2.99	2.95	0.18	2.95	2.95	2.85	2.67	2.52	1.35	2.95	0.00	0.0%
SC-150.06	10 min	4388	5.55	5.51	0.30	5.52	5.52	5.25	5.00	4.74	2.54	5.52	0.00	0.0%
SC-150.07	10 min	4388	8.75	8.68	0.51	8.70	8.70	8.15	8.00	7.56	4.04	8.70	0.00	0.0%
SC-150.08	6 hours	4732	3.47	3.13	0.76	3.14	0.24	0.28	0.28	0.33	0.40	0.40	-2.75	-87.4%
SC-150.09	6 hours	4732	3.72	3.34	0.81	3.35	1.44	1.32	1.34	1.28	0.86	1.44	-1.91	-56.9%
SC-150.10	6 hours	4740	4.49	4.09	0.99	4.12	3.53	3.46	3.45	3.31	2.12	3.53	-0.60	-14.4%
SC-150.11	10 min	4388	9.48	9.42	0.38	9.43	9.43	9.01	9.00	8.55	4.90	9.43	0.00	0.0%
SC-150.12	10 min	4388	14.70	14.61	0.48	14.63	14.63	14.06	13.93	13.27	7.55	14.63	0.00	0.0%
SC-150.13	10 min	4386	16.37	16.37	0.40	16.46	15.80	16.31	16.07	15.15	8.88	16.31	-0.15	-0.9%
SC-150.14	20 min	4455	23.28	22.98	1.06	23.09	21.23	22.84	23.18	22.09	14.14	23.18	0.09	0.4%
SC-150.15	20 min	4453	23.63	23.33	1.01	23.35	21.31	23.28	23.45	22.47	14.47	23.45	0.10	0.4%
SC-150.16	20 min	4450	24.83	24.65	0.97	24.72	21.76	24.57	24.72	23.79	15.50	24.72	0.00	0.0%
SC-150.17	20 min	4453	25.45	25.33	1.02	25.39	22.01	25.45	25.28	24.56	16.12	25.45	0.05	0.2%
SC-151.01	10 min	4386	0.42	0.41	0.04	0.42	0.40	0.41	0.37	0.35	0.18	0.41	-0.01	-2.0%
SC-151.02	10 min	4386	0.68	0.66	0.06	0.67	0.64	0.66	0.59	0.56	0.29	0.66	-0.01	-1.5%
SC-152.01	10 min	4386	0.39	0.38	0.03	0.39	0.37	0.38	0.33	0.31	0.17	0.38	-0.01	-1.5%
SC-153.01	10 min	4386	0.32	0.31	0.03	0.32	0.30	0.32	0.27	0.25	0.14	0.32	0.00	-1.4%
SC-153.02	10 min	4388	0.77	0.75	0.06	0.75	0.75	0.73	0.67	0.63	0.34	0.75	0.00	-0.1%
SC-154.01	10 min	4386	0.57	0.55	0.04	0.55	0.55	0.54	0.50	0.47	0.26	0.55	0.00	-0.2%
SC-154.02	10 min	4388	2.00	1.98	0.15	1.98	1.98	1.89	1.79	1.69	0.93	1.98	0.00	0.0%
SC-155.01	10 min	4387	0.20	0.20	0.01	0.21	0.19	0.21	0.19	0.18	0.10	0.21	0.00	-2.0%
SC-155.02	10 min	4386	0.60	0.59	0.05	0.59	0.58	0.58	0.55	0.52	0.28	0.58	-0.01	-0.9%
SC-156.01	10 min	4386	0.24	0.23	0.02	0.24	0.23	0.23	0.21	0.20	0.10	0.23	-0.01	-2.2%
SC-157.01	10 min	4386	0.29	0.29	0.02	0.29	0.27	0.29	0.25	0.23	0.12	0.29	0.00	-0.6%
SC-158.01	10 min	4386	0.36	0.35	0.03	0.36	0.34	0.35	0.31	0.29	0.15	0.35	-0.01	-2.8%
SC-158.02	10 min	4386	0.47	0.45	0.04	0.46	0.45	0.45	0.42	0.40	0.21	0.45	-0.01	-1.9%
SC-158.03	10 min	4388	1.04	1.01	0.08	1.02	1.02	0.99	0.93	0.88	0.47	1.02	0.00	-0.4%
SC-158.04	10 min	4388	1.95	1.90	0.16	1.90	1.90	1.86	1.72	1.63	0.87	1.90	0.00	0.0%
SC-159.01	10 min	4386	0.29	0.28	0.02	0.28	0.27	0.28	0.25	0.23	0.12	0.28	0.00	-0.1%
SC-16.01	10 min	4386	0.35	0.34	0.03	0.35	0.33	0.34	0.30	0.28	0.15	0.34	-0.01	-3.1%
SC-160.01	10 min	4386	0.28	0.28	0.02	0.28	0.26	0.28	0.24	0.23	0.12	0.28	0.00	-0.5%
SC-160.02	10 min	4386	0.64	0.62	0.05	0.63	0.62	0.61	0.57	0.54	0.28	0.62	-0.01	-1.8%
SC-161.01	10 min	4386	0.34	0.33	0.03	0.34	0.32	0.33	0.29	0.27	0.14	0.33	-0.01	-2.6%
SC-161.02	10 min	4386	0.68	0.66	0.05	0.68	0.64	0.67	0.58	0.55	0.29	0.67	-0.01	-2.0%
SC-162.01	10 min	4386	0.42	0.42	0.03	0.42	0.39	0.42	0.36	0.34	0.18	0.42	0.00	-0.4%
SC-163.01	10 min	4387	0.22	0.21	0.01	0.22	0.20	0.22	0.20	0.19	0.11	0.22	0.00	-1.8%
SC-163.02	10 min	4386	0.44	0.43	0.03	0.43	0.43	0.42	0.40	0.39	0.21	0.43	0.00	-0.8%
SC-163.03	10 min	4388	0.73	0.71	0.05	0.71	0.71	0.70	0.67	0.64	0.35	0.71	0.00	0.3%
SC-163.04	10 min	4386	1.03	1.01	0.08	1.01	1.01	0.99	0.93	0.88	0.48	1.01	0.00	-0.4%
SC-163.05	10 min	4388	1.81	1.78	0.13	1.79	1.79	1.72	1.62	1.53	0.83	1.79	0.00	-0.1%
SC-164.01	10 min	4386	0.37	0.37	0.03	0.37	0.35	0.37	0.31	0.29	0.16	0.37	0.00	-0.7%
SC-165.01	10 min	4386	0.32	0.31	0.02	0.32	0.30	0.31	0.27	0.25	0.13	0.31	-0.01	-2.5%
SC-165.02	10 min	4386	0.81	0.79	0.06	0.81	0.77	0.79	0.69	0.65	0.35	0.79	-0.02	-2.3%
SC-165.03	10 min	4386	1.06	1.03	0.08	1.04	1.02	1.02	0.91	0.85	0.46	1.02	-0.02	-1.6%
SC-165.04	10 min	4388	2.24	2.20	0.14	2.20	2.20	2.15	1.99	1.88	1.01	2.20	0.00	-0.1%
SC-165.05	10 min	4388	3.80	3.72	0.23	3.73	3.73	3.62	3.41	3.21	1.74	3.73	0.00	0.0%
SC-166.01	10 min	4386	0.29	0.28	0.02	0.29	0.27	0.28	0.24	0.23	0.12	0.28	-0.01	-1.8%
SC-167.01	10 min	4386	0.41	0.40	0.03	0.41	0.38	0.40	0.34	0.33	0.17	0.40	-0.01	-1.4%
SC-167.02	10 min	4386	1.04	1.01	0.08	1.03	0.99	1.01	0.92	0.87	0.45	1.01	-0.02	-1.8%
SC-168.01	10 min	4386	0.33	0.32	0.02	0.32	0.31	0.32	0.28	0.27	0.14	0.32	0.00	-0.4%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-169.01	10 min	4386	0.32	0.31	0.02	0.32	0.30	0.32	0.27	0.25	0.14	0.32	0.00	-1.3%
SC-169.02	10 min	4386	0.58	0.56	0.04	0.57	0.56	0.56	0.51	0.48	0.27	0.56	-0.01	-1.5%
SC-169.03	10 min	4386	1.30	1.27	0.10	1.27	1.26	1.25	1.14	1.07	0.58	1.26	-0.01	-0.5%
SC-17.01	10 min	4386	0.30	0.29	0.02	0.30	0.28	0.30	0.26	0.24	0.13	0.30	-0.01	-1.7%
SC-17.02	10 min	4386	0.54	0.53	0.04	0.54	0.51	0.53	0.47	0.45	0.23	0.53	-0.01	-2.1%
SC-17.03	10 min	4386	0.90	0.88	0.07	0.88	0.87	0.86	0.80	0.76	0.40	0.87	-0.01	-1.1%
SC-17.04	10 min	4388	2.10	2.07	0.16	2.07	2.07	1.99	1.92	1.83	0.96	2.07	0.00	0.1%
SC-17.05	10 min	4388	2.92	2.87	0.21	2.88	2.88	2.77	2.69	2.56	1.34	2.88	0.00	0.1%
SC-17.06	10 min	4388	3.34	3.33	0.20	3.33	3.33	3.14	3.07	2.91	1.55	3.33	0.00	0.1%
SC-17.07	10 min	4388	3.57	3.50	0.17	3.50	3.50	3.40	3.28	3.12	1.66	3.50	0.00	0.0%
SC-170.01	10 min	4386	0.28	0.27	0.02	0.28	0.26	0.27	0.24	0.22	0.12	0.27	-0.01	-3.5%
SC-171.01	10 min	4387	0.20	0.20	0.02	0.21	0.18	0.20	0.16	0.15	0.08	0.20	-0.01	-3.4%
SC-172.01	10 min	4386	0.39	0.39	0.03	0.40	0.36	0.39	0.33	0.31	0.16	0.39	-0.01	-2.3%
SC-172.02	10 min	4386	0.69	0.68	0.06	0.70	0.64	0.68	0.58	0.55	0.29	0.68	-0.02	-2.3%
SC-173.01	1 hour	4581	0.33	0.33	0.06	0.34	0.20	0.24	0.23	0.27	0.26	0.27	-0.07	-21.4%
SC-173.02	20 min	4451	0.71	0.69	0.09	0.71	0.68	0.67	0.66	0.64	0.52	0.68	-0.03	-3.5%
SC-173.03	10 min	4386	0.78	0.76	0.05	0.78	0.74	0.76	0.71	0.67	0.55	0.76	-0.02	-2.3%
SC-173.04	10 min	4388	1.48	1.46	0.11	1.46	1.46	1.37	1.34	1.27	0.85	1.46	0.00	0.2%
SC-173.05	10 min	4386	1.77	1.74	0.05	1.75	1.74	1.69	1.60	1.52	0.99	1.74	-0.01	-0.4%
SC-174.01	10 min	4386	0.25	0.25	0.02	0.25	0.23	0.25	0.21	0.20	0.10	0.25	0.00	-0.5%
SC-175.01	10 min	4386	0.43	0.42	0.04	0.43	0.41	0.42	0.37	0.35	0.18	0.42	-0.01	-1.3%
SC-175.02	10 min	4386	0.89	0.87	0.07	0.88	0.86	0.86	0.78	0.74	0.39	0.86	-0.02	-2.0%
SC-175.03	10 min	4386	1.44	1.40	0.12	1.41	1.40	1.39	1.27	1.20	0.64	1.40	-0.01	-1.0%
SC-175.04	10 min	4386	1.77	1.72	0.13	1.75	1.69	1.72	1.57	1.48	0.81	1.72	-0.03	-2.0%
SC-175.05	10 min	4386	2.03	1.99	0.11	2.00	1.98	1.95	1.81	1.72	0.92	1.98	-0.02	-0.8%
SC-176.01	10 min	4387	0.18	0.18	0.01	0.18	0.17	0.18	0.16	0.15	0.09	0.18	0.00	0.3%
SC-177.01	10 min	4386	0.25	0.25	0.02	0.25	0.23	0.25	0.21	0.20	0.10	0.25	0.00	-1.3%
SC-177.02	10 min	4388	0.65	0.64	0.05	0.64	0.64	0.62	0.58	0.55	0.29	0.64	0.00	-0.2%
SC-177.03	10 min	4388	1.81	1.77	0.14	1.77	1.77	1.73	1.61	1.52	0.81	1.77	0.00	0.0%
SC-177.04	10 min	4388	2.46	2.40	0.18	2.40	2.41	2.35	2.20	2.08	1.10	2.41	0.00	0.2%
SC-178.01	10 min	4386	0.53	0.51	0.04	0.52	0.51	0.50	0.46	0.43	0.23	0.51	-0.01	-2.5%
SC-178.02	10 min	4386	0.81	0.79	0.06	0.80	0.79	0.78	0.72	0.68	0.36	0.79	-0.01	-0.8%
SC-179.01	10 min	4386	0.43	0.42	0.04	0.43	0.41	0.42	0.37	0.35	0.18	0.42	-0.01	-1.8%
SC-18.01	10 min	4386	0.34	0.34	0.03	0.34	0.31	0.34	0.29	0.28	0.14	0.34	0.00	-0.6%
SC-18.02	10 min	4386	0.54	0.52	0.04	0.53	0.51	0.52	0.49	0.47	0.24	0.52	-0.01	-2.0%
SC-180.01	10 min	4386	0.41	0.40	0.03	0.41	0.40	0.40	0.36	0.34	0.18	0.40	-0.01	-2.2%
SC-180.02	10 min	4386	0.73	0.71	0.06	0.72	0.70	0.70	0.64	0.60	0.33	0.70	-0.02	-2.3%
SC-180.03	10 min	4388	1.02	1.00	0.08	1.00	1.00	0.98	0.91	0.86	0.47	1.00	0.00	0.0%
SC-180.04	10 min	4386	1.48	1.44	0.12	1.44	1.44	1.41	1.31	1.24	0.67	1.44	0.00	-0.1%
SC-181.01	10 min	4386	0.16	0.16	0.01	0.17	0.15	0.16	0.15	0.14	0.10	0.16	-0.01	-3.2%
SC-181.02	10 min	4386	0.61	0.60	0.04	0.61	0.59	0.60	0.55	0.52	0.29	0.60	-0.01	-2.1%
SC-181.03	10 min	4386	1.02	0.99	0.07	0.99	0.99	0.97	0.90	0.85	0.47	0.99	0.00	0.0%
SC-181.04	10 min	4388	1.82	1.76	0.13	1.77	1.77	1.72	1.66	1.57	0.91	1.77	0.00	-0.1%
SC-181.05	10 min	4388	2.01	1.98	0.07	1.98	1.98	1.93	1.82	1.74	1.00	1.98	0.00	0.2%
SC-181.06	10 min	4386	2.23	2.20	0.06	2.21	2.19	2.15	2.03	1.95	1.09	2.19	-0.02	-0.9%
SC-181.07	10 min	4391	5.05	5.01	0.15	5.04	5.05	4.79	4.65	4.45	2.42	5.05	0.01	0.2%
SC-181.08	10 min	4386	5.22	5.16	0.12	5.16	5.16	4.98	4.82	4.59	2.50	5.16	0.00	0.0%
SC-182.01	10 min	4386	0.29	0.28	0.02	0.29	0.28	0.28	0.25	0.24	0.13	0.28	-0.01	-2.1%
SC-182.02	10 min	4386	0.48	0.47	0.04	0.47	0.46	0.46	0.43	0.41	0.22	0.46	-0.01	-1.4%
SC-182.03	10 min	4388	0.75	0.74	0.06	0.74	0.74	0.71	0.69	0.66	0.40	0.74	0.00	0.1%
SC-183.01	10 min	4386	0.27	0.27	0.02	0.27	0.26	0.27	0.24	0.23	0.14	0.27	0.00	-1.5%
SC-183.02	10 min	4388	0.64	0.63	0.05	0.63	0.63	0.61	0.58	0.55	0.31	0.63	0.00	-0.4%
SC-183.03	10 min	4388	1.61	1.59	0.10	1.60	1.60	1.54	1.46	1.38	0.76	1.60	0.00	-0.1%
SC-183.04	10 min	4388	1.87	1.85	0.09	1.85	1.85	1.79	1.70	1.61	0.87	1.85	0.00	0.2%
SC-184.01	10 min	4386	0.68	0.66	0.05	0.68	0.65	0.66	0.59	0.56	0.31	0.66	-0.02	-2.3%
SC-185.01	10 min	4386	0.40	0.39	0.03	0.40	0.38	0.39	0.35	0.33	0.17	0.39	-0.01	-2.3%
SC-185.02	10 min	4386	0.91	0.89	0.07	0.89	0.88	0.87	0.80	0.76	0.40	0.88	-0.01	-0.6%
SC-186.01	10 min	4386	0.15	0.14	0.01	0.14	0.14	0.14	0.13	0.12	0.07	0.14	0.00	0.8%
SC-187.01	10 min	4386	0.41	0.41	0.03	0.42	0.38	0.41	0.35	0.33	0.17	0.41	-0.01	-2.8%
SC-187.02	10 min	4386	0.81	0.79	0.07	0.80	0.78	0.78	0.71	0.67	0.36	0.78	-0.02	-1.9%
SC-187.03	10 min	4386	0.96	0.94	0.06	0.96	0.92	0.94	0.84	0.79	0.43	0.94	-0.02	-1.7%
SC-187.04	10 min	4385	1.25	1.24	0.04	1.24	1.21	1.23	1.11	1.06	0.55	1.23	-0.01	-1.0%
SC-187.05	10 min	4385	1.47	1.48	0.04	1.48	1.45	1.45	1.32	1.27	0.64	1.45	-0.03	-2.2%
SC-188.01	10 min	4386	0.44	0.43	0.04	0.44	0.40	0.43	0.36	0.35	0.18	0.43	-0.01	-2.0%
SC-188.02	10 min	4386	0.65	0.64	0.05	0.66	0.61	0.64	0.57	0.54	0.28	0.64	-0.02	-2.6%
SC-189.01	10 min	4386	0.49	0.48	0.04	0.50	0.46	0.49	0.41	0.39	0.20	0.49	-0.01	-2.8%
SC-189.02	10 min	4386	0.90	0.88	0.07	0.89	0.86	0.88	0.77	0.73	0.39	0.88	-0.01	-1.6%
SC-19.01	10 min	4387	0.20	0.20	0.01	0.20	0.18	0.20	0.18	0.18	0.09	0.20	0.00	-1.1%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-190.01	10 min	4386	0.22	0.22	0.02	0.22	0.20	0.22	0.19	0.18	0.09	0.22	0.00	0.4%
SC-191.01	10 min	4386	0.39	0.39	0.03	0.40	0.37	0.39	0.33	0.31	0.16	0.39	-0.01	-3.0%
SC-191.02	10 min	4386	0.58	0.56	0.05	0.57	0.54	0.56	0.50	0.48	0.25	0.56	-0.01	-1.2%
SC-191.03	10 min	4386	1.07	1.05	0.08	1.05	1.04	1.03	0.95	0.90	0.48	1.04	-0.01	-0.8%
SC-191.04	10 min	4386	1.56	1.52	0.13	1.52	1.52	1.50	1.39	1.31	0.70	1.52	0.00	0.1%
SC-191.05	10 min	4388	2.21	2.17	0.15	2.17	2.17	2.11	1.97	1.86	0.99	2.17	0.00	0.2%
SC-191.06	10 min	4388	3.78	3.73	0.25	3.73	3.73	3.59	3.39	3.22	1.84	3.73	0.00	0.1%
SC-191.07	10 min	4388	4.49	4.41	0.26	4.42	4.42	4.26	4.15	3.94	2.24	4.42	0.00	0.0%
SC-191.08	10 min	4386	4.79	4.80	0.23	4.85	4.46	4.71	4.51	4.25	2.52	4.71	-0.14	-2.8%
SC-192.01	10 min	4386	1.29	1.25	0.10	1.28	1.22	1.26	1.10	1.04	0.57	1.26	-0.02	-1.8%
SC-193.01	10 min	4386	0.55	0.54	0.05	0.54	0.53	0.53	0.49	0.46	0.27	0.53	-0.01	-1.2%
SC-194.01	10 min	4386	0.54	0.53	0.04	0.54	0.52	0.53	0.49	0.48	0.30	0.53	-0.01	-1.2%
SC-194.02	1 hour	4581	1.78	1.73	0.38	1.84	1.40	1.40	1.47	1.47	1.35	1.47	-0.37	-20.0%
SC-194.03	45 min	4549	1.99	2.03	0.26	2.03	1.72	1.73	1.75	1.70	1.54	1.75	-0.28	-13.9%
SC-195.01	45 min	4551	0.61	0.61	0.08	0.61	0.31	0.45	0.42	0.49	0.43	0.49	-0.12	-19.7%
SC-196.01	10 min	4386	1.79	1.75	0.13	1.76	1.74	1.73	1.64	1.55	0.93	1.74	-0.02	-1.1%
SC-197.01	10 min	4386	1.15	1.14	0.08	1.17	1.08	1.15	1.07	1.04	0.62	1.15	-0.02	-2.1%
SC-198.01	45 min	4549	0.95	1.03	0.15	1.03	0.38	0.77	0.82	0.76	0.59	0.82	-0.21	-20.8%
SC-2.01	10 min	4386	0.25	0.24	0.02	0.25	0.23	0.24	0.23	0.22	0.13	0.24	-0.01	-2.2%
SC-20.01	10 min	4386	0.27	0.27	0.02	0.27	0.25	0.27	0.23	0.22	0.11	0.27	0.00	-1.1%
SC-200.01	10 min	4386	0.41	0.41	0.03	0.42	0.38	0.41	0.35	0.33	0.17	0.41	-0.01	-2.4%
SC-200.02	10 min	4386	0.71	0.69	0.05	0.70	0.67	0.69	0.61	0.57	0.32	0.69	-0.01	-1.3%
SC-200.03	10 min	4386	1.30	1.27	0.10	1.27	1.26	1.25	1.14	1.08	0.61	1.26	-0.01	-0.6%
SC-200.04	10 min	4388	1.82	1.82	0.14	1.82	1.82	1.69	1.72	1.63	0.91	1.82	0.00	0.1%
SC-200.05	10 min	4388	2.96	2.93	0.20	2.94	2.94	2.79	2.75	2.62	1.43	2.94	0.00	0.0%
SC-200.06	20 min	4450	4.30	4.18	0.55	4.27	4.31	3.85	4.27	4.11	2.33	4.31	0.04	1.0%
SC-200.07	20 min	4451	4.84	4.65	0.70	4.76	4.72	4.09	4.90	4.73	2.75	4.90	0.14	3.0%
SC-200.08	20 min	4451	5.42	5.19	0.87	5.37	5.03	4.36	5.65	5.43	3.17	5.65	0.28	5.2%
SC-200.09	45 min	4547	7.82	7.71	1.09	7.71	6.00	5.79	8.05	7.71	4.64	8.05	0.34	4.4%
SC-201.01	10 min	4386	0.48	0.47	0.04	0.48	0.46	0.47	0.41	0.39	0.20	0.47	-0.01	-2.7%
SC-202.01	10 min	4386	0.49	0.48	0.04	0.49	0.47	0.48	0.42	0.40	0.20	0.48	-0.01	-2.8%
SC-203.01	10 min	4386	0.50	0.49	0.04	0.51	0.46	0.50	0.42	0.40	0.21	0.50	-0.01	-2.6%
SC-204.01	20 min	4451	0.62	0.60	0.09	0.61	0.57	0.60	0.60	0.58	0.32	0.60	-0.01	-1.3%
SC-205.01	45 min	4549	0.21	0.22	0.03	0.22	0.16	0.19	0.18	0.18	0.14	0.19	-0.03	-13.8%
SC-206.01	45 min	4547	1.69	1.67	0.27	1.67	1.26	1.36	1.61	1.67	1.01	1.67	0.00	0.2%
SC-207.01	10 min	4386	0.50	0.49	0.03	0.50	0.46	0.49	0.42	0.39	0.20	0.49	-0.01	-1.5%
SC-207.02	10 min	4386	0.95	0.92	0.07	0.93	0.91	0.92	0.82	0.78	0.41	0.92	-0.01	-1.3%
SC-207.03	10 min	4386	1.03	1.00	0.07	1.01	0.99	0.99	0.91	0.86	0.47	0.99	-0.02	-1.6%
SC-207.04	10 min	4388	2.91	2.86	0.12	2.86	2.86	2.77	2.66	2.52	1.34	2.86	0.00	-0.1%
SC-207.05	10 min	4384	3.91	3.87	0.14	3.90	3.94	3.65	3.62	3.45	1.80	3.94	0.04	0.9%
SC-207.06	10 min	4389	4.23	4.20	0.09	4.20	4.27	3.97	3.90	3.72	1.94	4.27	0.07	1.6%
SC-207.07	10 min	4389	6.50	6.41	0.34	6.45	6.68	5.95	6.36	6.12	3.50	6.68	0.23	3.5%
SC-207.08	10 min	4384	9.88	9.74	0.32	9.78	9.98	9.27	9.69	9.27	5.23	9.98	0.20	2.0%
SC-207.09	10 min	4384	10.86	10.78	0.27	10.80	10.84	10.32	11.14	10.62	6.08	11.14	0.34	3.2%
SC-207.10	20 min	4445	11.14	10.98	1.03	11.21	10.99	10.57	11.58	10.99	6.35	11.58	0.37	3.3%
SC-207.11	20 min	4445	11.87	11.66	1.11	11.97	11.31	11.17	12.47	11.82	6.91	12.47	0.50	4.2%
SC-207.12	20 min	4445	17.31	16.88	1.65	17.23	16.73	16.23	18.05	17.17	9.86	18.05	0.82	4.7%
SC-207.13	20 min	4445	18.11	17.72	1.68	18.12	17.13	16.91	18.95	18.04	10.55	18.95	0.83	4.6%
SC-207.14	20 min	4445	18.77	18.44	1.62	18.90	17.47	17.51	19.68	18.78	11.05	19.68	0.78	4.1%
SC-208.01	10 min	4386	0.51	0.50	0.04	0.52	0.47	0.51	0.42	0.40	0.20	0.51	-0.01	-2.5%
SC-208.02	10 min	4386	0.74	0.73	0.06	0.75	0.69	0.73	0.63	0.59	0.31	0.73	-0.02	-2.2%
SC-208.03	10 min	4386	0.99	0.96	0.08	0.98	0.94	0.96	0.85	0.80	0.42	0.96	-0.02	-2.1%
SC-208.04	10 min	4386	1.57	1.54	0.09	1.55	1.54	1.52	1.38	1.31	0.68	1.54	-0.02	-1.0%
SC-208.05	10 min	4386	1.81	1.79	0.06	1.80	1.77	1.75	1.62	1.54	0.80	1.77	-0.03	-1.4%
SC-209.01	10 min	4386	0.33	0.33	0.03	0.34	0.31	0.33	0.28	0.26	0.14	0.33	-0.01	-3.2%
SC-21.01	10 min	4386	0.38	0.38	0.03	0.39	0.35	0.38	0.32	0.31	0.16	0.38	-0.01	-2.6%
SC-210.01	10 min	4386	0.71	0.69	0.06	0.71	0.67	0.69	0.61	0.57	0.30	0.69	-0.02	-2.5%
SC-210.02	10 min	4386	1.00	0.98	0.08	0.99	0.96	0.97	0.87	0.82	0.43	0.97	-0.02	-1.7%
SC-211.01	1 hour	4581	0.20	0.20	0.04	0.21	0.14	0.17	0.15	0.16	0.16	0.17	-0.04	-19.6%
SC-211.02	45 min	4551	0.45	0.46	0.05	0.46	0.23	0.31	0.30	0.38	0.36	0.38	-0.08	-17.6%
SC-211.03	1 hour	4581	0.73	0.71	0.15	0.77	0.45	0.53	0.55	0.58	0.58	0.58	-0.19	-24.0%
SC-211.04	1 hour	4581	0.88	0.85	0.18	0.92	0.61	0.68	0.73	0.71	0.69	0.73	-0.19	-20.9%
SC-212.01	2 hours	4645	0.07	0.08	0.01	0.08	0.04	0.04	0.05	0.05	0.08	0.08	0.00	-3.3%
SC-212.02	1 hour	4581	0.15	0.15	0.03	0.15	0.11	0.12	0.12	0.12	0.14	0.14	-0.01	-9.8%
SC-213.01	10 min	4386	0.30	0.29	0.02	0.30	0.27	0.29	0.25	0.23	0.12	0.29	-0.01	-2.7%
SC-213.02	10 min	4386	0.49	0.48	0.04	0.48	0.47	0.47	0.43	0.40	0.21	0.47	-0.01	-1.1%
SC-214.01	10 min	4386	0.36	0.36	0.03	0.36	0.33	0.36	0.31	0.29	0.15	0.36	0.00	-0.7%
SC-214.02	10 min	4386	0.78	0.77	0.06	0.79	0.72	0.78	0.66	0.62	0.32	0.78	-0.01	-1.7%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-215.01	10 min	4386	0.30	0.29	0.02	0.30	0.28	0.29	0.26	0.24	0.13	0.29	-0.01	-2.4%
SC-215.02	10 min	4386	0.54	0.52	0.04	0.52	0.52	0.52	0.47	0.45	0.24	0.52	0.00	0.4%
SC-216.01	10 min	4386	0.27	0.27	0.02	0.27	0.25	0.27	0.23	0.21	0.11	0.27	0.00	-0.3%
SC-216.02	10 min	4386	0.86	0.85	0.06	0.87	0.79	0.86	0.70	0.66	0.34	0.86	-0.01	-1.4%
SC-216.03	10 min	4386	1.35	1.32	0.10	1.35	1.28	1.33	1.14	1.07	0.56	1.33	-0.03	-1.9%
SC-216.04	10 min	4390	1.88	1.86	0.09	1.87	1.78	1.88	1.63	1.56	0.81	1.88	0.01	0.4%
SC-217.01	10 min	4387	0.20	0.20	0.02	0.20	0.18	0.20	0.16	0.15	0.08	0.20	0.00	1.8%
SC-218.01	10 min	4382	0.15	0.15	0.01	0.15	0.13	0.16	0.12	0.12	0.06	0.16	0.01	5.7%
SC-219.01	10 min	4387	0.20	0.20	0.02	0.20	0.18	0.20	0.16	0.16	0.08	0.20	0.00	1.8%
SC-22.01	10 min	4387	0.22	0.22	0.02	0.22	0.20	0.22	0.18	0.17	0.09	0.22	0.00	-0.5%
SC-220.01	10 min	4386	0.30	0.29	0.02	0.30	0.28	0.29	0.25	0.24	0.12	0.29	-0.01	-3.0%
SC-221.01	10 min	4386	0.28	0.27	0.02	0.28	0.25	0.27	0.23	0.22	0.12	0.27	-0.01	-2.9%
SC-221.02	10 min	4386	0.61	0.59	0.04	0.60	0.58	0.59	0.54	0.51	0.27	0.59	-0.01	-1.3%
SC-221.03	10 min	4386	0.75	0.73	0.05	0.74	0.73	0.73	0.66	0.63	0.33	0.73	-0.01	-1.2%
SC-221.04	10 min	4386	1.10	1.07	0.08	1.08	1.07	1.06	0.96	0.91	0.48	1.07	-0.02	-1.4%
SC-221.05	10 min	4386	1.42	1.39	0.09	1.40	1.38	1.37	1.26	1.20	0.63	1.38	-0.02	-1.7%
SC-221.06	10 min	4386	1.50	1.47	0.08	1.49	1.45	1.46	1.34	1.26	0.68	1.46	-0.03	-2.3%
SC-222.01	10 min	4386	0.29	0.29	0.02	0.29	0.28	0.29	0.25	0.24	0.13	0.29	0.00	-1.2%
SC-222.02	10 min	4386	0.48	0.46	0.04	0.47	0.46	0.46	0.43	0.40	0.21	0.46	-0.01	-2.0%
SC-222.03	20 min	4451	0.97	0.97	0.16	0.97	0.93	0.85	0.96	0.94	0.51	0.96	-0.01	-1.4%
SC-223.01	10 min	4382	0.13	0.13	0.01	0.13	0.12	0.14	0.11	0.10	0.05	0.14	0.01	4.8%
SC-224.01	45 min	4553	0.29	0.30	0.05	0.30	0.12	0.23	0.26	0.24	0.17	0.26	-0.04	-12.3%
SC-225.01	10 min	4386	0.24	0.23	0.02	0.24	0.23	0.23	0.21	0.19	0.10	0.23	-0.01	-3.0%
SC-226.01	10 min	4382	0.18	0.18	0.01	0.18	0.16	0.19	0.15	0.14	0.07	0.19	0.01	4.1%
SC-226.02	10 min	4386	0.42	0.41	0.03	0.41	0.40	0.41	0.37	0.35	0.18	0.41	0.00	-1.0%
SC-226.03	10 min	4388	0.86	0.84	0.07	0.84	0.84	0.83	0.77	0.74	0.38	0.84	0.00	0.3%
SC-226.04	10 min	4388	1.31	1.28	0.10	1.28	1.28	1.25	1.16	1.10	0.58	1.28	0.00	0.3%
SC-226.05	10 min	4386	5.08	4.96	0.37	4.98	4.93	4.88	4.62	4.37	2.36	4.93	-0.05	-0.9%
SC-226.06	10 min	4386	5.59	5.49	0.28	5.52	5.46	5.40	5.12	4.84	2.61	5.46	-0.06	-1.1%
SC-226.07	10 min	4387	5.94	5.91	0.25	5.99	5.71	5.84	5.49	5.25	2.85	5.84	-0.15	-2.6%
SC-226.08	10 min	4386	6.09	6.04	0.24	6.12	5.86	5.95	5.76	5.50	2.99	5.95	-0.17	-2.8%
SC-227.01	10 min	4387	0.10	0.09	0.01	0.10	0.08	0.10	0.08	0.08	0.04	0.10	0.00	-3.4%
SC-228.01	10 min	4387	0.20	0.20	0.02	0.20	0.18	0.20	0.17	0.16	0.08	0.20	0.00	1.6%
SC-229.01	10 min	4387	0.14	0.14	0.01	0.14	0.13	0.14	0.12	0.11	0.06	0.14	0.00	1.3%
SC-23.01	10 min	4386	0.28	0.28	0.02	0.28	0.26	0.28	0.24	0.22	0.12	0.28	0.00	-0.3%
SC-23.02	10 min	4388	0.83	0.81	0.06	0.81	0.81	0.79	0.75	0.71	0.37	0.81	0.00	0.6%
SC-23.03	10 min	4388	1.03	1.00	0.08	1.00	1.00	0.99	0.93	0.89	0.46	1.00	0.00	0.3%
SC-230.01	10 min	4386	0.14	0.13	0.01	0.14	0.13	0.13	0.12	0.11	0.06	0.13	-0.01	-4.2%
SC-231.01	10 min	4386	0.15	0.15	0.01	0.15	0.14	0.15	0.13	0.12	0.07	0.15	0.00	1.2%
SC-232.01	10 min	4386	0.40	0.39	0.03	0.40	0.37	0.40	0.33	0.31	0.17	0.40	-0.01	-1.3%
SC-232.02	10 min	4386	0.61	0.59	0.05	0.60	0.59	0.59	0.53	0.50	0.27	0.59	-0.01	-1.4%
SC-232.03	10 min	4386	1.40	1.37	0.11	1.37	1.37	1.35	1.24	1.18	0.62	1.37	0.00	-0.1%
SC-233.01	10 min	4386	0.26	0.26	0.02	0.27	0.24	0.26	0.22	0.21	0.11	0.26	-0.01	-3.1%
SC-233.02	10 min	4386	0.44	0.43	0.03	0.43	0.42	0.43	0.39	0.37	0.20	0.43	0.00	-0.7%
SC-234.01	10 min	4386	0.38	0.36	0.03	0.37	0.36	0.36	0.33	0.31	0.16	0.36	-0.01	-1.7%
SC-234.02	10 min	4386	0.76	0.74	0.05	0.75	0.73	0.74	0.67	0.64	0.33	0.74	-0.01	-1.4%
SC-234.03	10 min	4388	2.19	2.14	0.17	2.14	2.14	2.10	1.96	1.86	1.02	2.14	0.00	0.2%
SC-235.01	10 min	4382	0.15	0.14	0.01	0.14	0.13	0.15	0.12	0.11	0.06	0.15	0.01	6.4%
SC-236.01	10 min	4387	0.19	0.18	0.01	0.19	0.17	0.19	0.15	0.14	0.07	0.19	0.00	-1.5%
SC-236.02	10 min	4386	0.29	0.29	0.02	0.29	0.26	0.29	0.24	0.22	0.12	0.29	0.00	-0.7%
SC-237.01	10 min	4386	0.24	0.24	0.02	0.25	0.22	0.24	0.21	0.20	0.10	0.24	-0.01	-3.3%
SC-237.02	10 min	4386	0.50	0.49	0.04	0.49	0.49	0.49	0.46	0.44	0.26	0.49	0.00	-0.7%
SC-238.01	10 min	4382	0.16	0.16	0.01	0.16	0.15	0.17	0.13	0.13	0.06	0.17	0.01	4.8%
SC-238.02	10 min	4386	0.38	0.37	0.03	0.38	0.36	0.37	0.32	0.31	0.16	0.37	-0.01	-2.2%
SC-239.01	10 min	4387	0.21	0.21	0.02	0.21	0.19	0.21	0.17	0.17	0.09	0.21	0.00	-0.1%
SC-24.01	10 min	4386	0.25	0.24	0.02	0.25	0.23	0.25	0.21	0.20	0.10	0.25	0.00	-1.7%
SC-240.01	45 min	4551	0.39	0.40	0.05	0.40	0.23	0.30	0.29	0.31	0.28	0.31	-0.09	-23.0%
SC-240.02	45 min	4548	0.60	0.61	0.08	0.61	0.41	0.47	0.58	0.57	0.43	0.58	-0.03	-4.2%
SC-241.01	45 min	4553	1.91	1.92	0.31	1.92	0.90	1.51	1.75	1.66	1.11	1.75	-0.17	-8.9%
SC-242.01	10 min	4386	0.30	0.29	0.02	0.30	0.28	0.29	0.25	0.23	0.13	0.29	-0.01	-2.1%
SC-242.02	10 min	4388	0.75	0.73	0.06	0.73	0.73	0.72	0.66	0.62	0.33	0.73	0.00	0.2%
SC-242.03	10 min	4388	1.11	1.09	0.09	1.09	1.09	1.06	0.99	0.93	0.49	1.09	0.00	0.2%
SC-242.04	10 min	4388	1.18	1.15	0.09	1.16	1.16	1.13	1.05	0.99	0.53	1.16	0.00	-0.2%
SC-242.05	10 min	4388	2.59	2.58	0.18	2.59	2.59	2.43	2.35	2.22	1.17	2.59	0.00	0.0%
SC-242.06	10 min	4391	3.39	3.37	0.22	3.42	3.43	3.12	3.14	2.98	1.55	3.43	0.01	0.3%
SC-242.07	10 min	4384	3.50	3.44	0.23	3.50	3.56	3.21	3.37	3.21	1.69	3.56	0.06	1.6%
SC-242.08	45 min	4547	5.70	5.87	0.74	5.87	5.22	4.65	6.03	5.87	3.31	6.03	0.16	2.7%
SC-243.01	10 min	4386	0.27	0.26	0.02	0.27	0.25	0.26	0.23	0.21	0.11	0.26	-0.01	-3.3%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-243.02	10 min	4386	0.99	0.96	0.07	0.98	0.95	0.97	0.87	0.82	0.43	0.97	-0.01	-1.5%
SC-244.01	10 min	4386	0.37	0.36	0.03	0.37	0.35	0.36	0.32	0.30	0.15	0.36	-0.01	-2.8%
SC-245.01	10 min	4387	0.20	0.20	0.02	0.21	0.18	0.20	0.17	0.16	0.08	0.20	-0.01	-2.8%
SC-246.01	10 min	4386	0.13	0.13	0.01	0.13	0.13	0.13	0.12	0.11	0.06	0.13	0.00	0.5%
SC-246.02	20 min	4450	0.31	0.31	0.06	0.32	0.29	0.24	0.32	0.32	0.16	0.32	0.00	0.4%
SC-247.01	10 min	4386	0.35	0.34	0.03	0.35	0.32	0.35	0.31	0.30	0.16	0.35	0.00	-1.4%
SC-247.02	20 min	4450	0.72	0.72	0.16	0.73	0.63	0.56	0.73	0.73	0.42	0.73	0.00	0.0%
SC-248.01	45 min	4553	0.35	0.34	0.06	0.34	0.20	0.27	0.33	0.33	0.20	0.33	-0.01	-2.1%
SC-249.01	45 min	4551	0.07	0.07	0.01	0.07	0.04	0.05	0.05	0.06	0.05	0.06	-0.01	-15.0%
SC-249.02	20 min	4451	0.27	0.26	0.04	0.26	0.27	0.24	0.26	0.25	0.16	0.27	0.01	2.0%
SC-249.03	10 min	4391	0.63	0.63	0.05	0.63	0.63	0.58	0.60	0.57	0.33	0.63	0.00	0.5%
SC-249.04	10 min	4388	1.62	1.61	0.13	1.61	1.61	1.52	1.48	1.40	0.79	1.61	0.00	0.1%
SC-249.05	10 min	4391	4.68	4.66	0.34	4.71	4.73	4.34	4.40	4.19	2.29	4.73	0.02	0.4%
SC-249.06	20 min	4451	6.72	6.51	0.96	6.55	6.37	5.65	6.86	6.73	3.98	6.86	0.31	4.7%
SC-25.01	10 min	4387	0.75	0.75	0.06	0.76	0.68	0.76	0.62	0.59	0.31	0.76	0.00	-0.6%
SC-25.02	10 min	4386	1.08	1.06	0.08	1.08	1.02	1.06	0.93	0.88	0.46	1.06	-0.02	-1.5%
SC-25.03	10 min	4386	1.19	1.17	0.09	1.19	1.11	1.17	1.01	0.96	0.50	1.17	-0.02	-1.4%
SC-25.04	10 min	4386	1.95	1.90	0.14	1.92	1.87	1.89	1.71	1.62	0.86	1.89	-0.03	-1.8%
SC-250.01	10 min	4386	0.09	0.09	0.01	0.09	0.09	0.09	0.08	0.07	0.04	0.09	0.00	-3.2%
SC-251.01	10 min	4386	0.21	0.21	0.02	0.21	0.20	0.21	0.18	0.17	0.09	0.21	0.00	-1.2%
SC-252.01	10 min	4386	0.24	0.23	0.02	0.24	0.22	0.23	0.21	0.20	0.11	0.23	-0.01	-3.5%
SC-252.02	10 min	4386	0.45	0.44	0.03	0.45	0.41	0.45	0.38	0.36	0.20	0.45	0.00	-1.1%
SC-253.01	10 min	4386	0.35	0.34	0.03	0.34	0.33	0.34	0.30	0.28	0.15	0.34	0.00	-1.2%
SC-253.02	10 min	4386	1.28	1.25	0.10	1.25	1.24	1.23	1.14	1.07	0.57	1.24	-0.01	-0.6%
SC-253.03	10 min	4386	1.57	1.53	0.13	1.53	1.53	1.50	1.38	1.30	0.70	1.53	0.00	-0.2%
SC-254.01	10 min	4386	0.35	0.35	0.02	0.35	0.34	0.35	0.31	0.29	0.15	0.35	0.00	-0.6%
SC-255.01	10 min	4386	0.32	0.31	0.02	0.31	0.31	0.31	0.28	0.27	0.16	0.31	0.00	-0.3%
SC-256.01	10 min	4386	0.29	0.28	0.02	0.29	0.27	0.28	0.25	0.24	0.13	0.28	-0.01	-2.7%
SC-257.01	10 min	4382	0.17	0.17	0.01	0.17	0.15	0.17	0.14	0.14	0.07	0.17	0.00	2.2%
SC-258.01	10 min	4387	0.75	0.74	0.06	0.75	0.68	0.76	0.68	0.65	0.33	0.76	0.01	0.9%
SC-258.02	20 min	4451	1.11	1.12	0.19	1.14	1.00	0.99	1.10	1.08	0.60	1.10	-0.04	-3.3%
SC-259.01	10 min	4386	0.33	0.32	0.03	0.33	0.32	0.32	0.29	0.27	0.14	0.32	-0.01	-2.5%
SC-259.02	10 min	4388	0.70	0.69	0.05	0.69	0.69	0.67	0.62	0.58	0.31	0.69	0.00	-0.2%
SC-259.03	10 min	4388	0.99	0.97	0.08	0.97	0.97	0.93	0.88	0.82	0.44	0.97	0.00	-0.1%
SC-259.04	10 min	4388	1.81	1.77	0.14	1.77	1.77	1.74	1.59	1.50	0.80	1.77	0.00	0.0%
SC-259.05	10 min	4388	2.22	2.18	0.16	2.18	2.18	2.11	1.96	1.85	0.98	2.18	0.00	0.1%
SC-259.06	10 min	4388	2.84	2.78	0.19	2.79	2.79	2.71	2.53	2.38	1.27	2.79	0.00	-0.1%
SC-259.07	10 min	4385	3.63	3.65	0.14	3.67	3.56	3.61	3.29	3.17	1.65	3.61	-0.06	-1.7%
SC-259.08	10 min	4385	4.11	4.15	0.16	4.17	4.03	4.08	3.91	3.79	1.90	4.08	-0.09	-2.2%
SC-259.09	20 min	4446	9.48	9.25	1.07	9.30	9.06	9.10	9.84	9.55	5.37	9.84	0.54	5.8%
SC-259.10	20 min	4446	9.69	9.46	1.07	9.49	9.23	9.29	10.11	9.79	5.49	10.11	0.62	6.5%
SC-26.01	10 min	4386	0.23	0.23	0.02	0.23	0.21	0.23	0.20	0.19	0.10	0.23	0.00	0.3%
SC-260.01	10 min	4386	0.22	0.22	0.02	0.22	0.20	0.22	0.19	0.17	0.09	0.22	0.00	-0.3%
SC-261.01	10 min	4386	0.29	0.29	0.02	0.29	0.27	0.29	0.24	0.23	0.12	0.29	0.00	-1.2%
SC-262.01	10 min	4386	0.31	0.30	0.02	0.30	0.29	0.30	0.27	0.25	0.13	0.30	0.00	-0.5%
SC-262.02	10 min	4386	0.59	0.57	0.04	0.58	0.56	0.57	0.51	0.48	0.25	0.57	-0.01	-1.5%
SC-263.01	10 min	4386	0.33	0.32	0.02	0.32	0.31	0.32	0.29	0.27	0.14	0.32	0.00	-0.6%
SC-264.01	10 min	4387	0.19	0.19	0.01	0.19	0.17	0.19	0.16	0.15	0.08	0.19	0.00	2.1%
SC-265.01	10 min	4386	0.24	0.24	0.02	0.24	0.23	0.24	0.21	0.20	0.11	0.24	0.00	-0.6%
SC-265.02	20 min	4451	0.55	0.54	0.08	0.56	0.52	0.50	0.51	0.52	0.32	0.52	-0.04	-6.4%
SC-265.03	45 min	4553	0.88	0.89	0.13	0.89	0.65	0.66	0.83	0.83	0.55	0.83	-0.06	-6.8%
SC-265.04	20 min	4446	4.31	4.10	0.53	4.16	4.00	3.89	4.34	4.22	2.58	4.34	0.18	4.4%
SC-266.01	10 min	4386	0.29	0.29	0.02	0.29	0.28	0.28	0.26	0.25	0.15	0.28	-0.01	-2.2%
SC-266.02	10 min	4386	0.59	0.57	0.04	0.59	0.56	0.58	0.53	0.50	0.29	0.58	-0.01	-2.2%
SC-266.03	10 min	4386	0.73	0.71	0.05	0.72	0.69	0.71	0.64	0.60	0.35	0.71	-0.01	-1.5%
SC-266.04	10 min	4388	2.65	2.59	0.19	2.60	2.60	2.52	2.47	2.35	1.39	2.60	0.00	-0.1%
SC-266.05	10 min	4386	3.03	2.98	0.14	2.99	2.98	2.92	2.84	2.71	1.62	2.98	-0.01	-0.5%
SC-267.01	10 min	4386	0.29	0.29	0.02	0.29	0.27	0.29	0.25	0.24	0.12	0.29	0.00	-0.7%
SC-268.01	10 min	4386	0.49	0.48	0.04	0.48	0.47	0.47	0.43	0.40	0.22	0.47	-0.01	-1.9%
SC-268.02	10 min	4386	1.29	1.25	0.10	1.27	1.23	1.25	1.14	1.08	0.63	1.25	-0.02	-1.7%
SC-269.01	10 min	4387	0.19	0.19	0.01	0.20	0.18	0.20	0.18	0.17	0.11	0.20	0.00	-2.3%
SC-27.01	10 min	4386	0.23	0.23	0.02	0.23	0.21	0.23	0.21	0.20	0.11	0.23	0.00	0.3%
SC-270.01	20 min	4449	0.21	0.20	0.04	0.20	0.17	0.18	0.18	0.18	0.12	0.18	-0.02	-8.2%
SC-271.01	20 min	4452	0.13	0.12	0.02	0.13	0.11	0.12	0.12	0.12	0.07	0.12	-0.01	-9.3%
SC-272.01	20 min	4452	0.30	0.29	0.05	0.29	0.26	0.26	0.27	0.27	0.19	0.27	-0.02	-6.3%
SC-272.02	20 min	4450	0.65	0.63	0.13	0.65	0.58	0.51	0.65	0.64	0.40	0.65	0.00	0.5%
SC-272.03	20 min	4450	1.06	1.04	0.22	1.09	0.96	0.82	1.09	1.08	0.62	1.09	0.00	0.2%
SC-273.01	20 min	4452	0.31	0.31	0.06	0.31	0.26	0.25	0.32	0.32	0.16	0.32	0.01	4.0%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-274.01	1 hour	4574	0.14	0.14	0.03	0.15	0.12	0.11	0.12	0.12	0.11	0.12	-0.03	-19.0%
SC-274.02	10 min	4388	0.69	0.68	0.06	0.68	0.68	0.65	0.63	0.60	0.36	0.68	0.00	0.6%
SC-274.03	10 min	4386	1.68	1.64	0.13	1.65	1.63	1.63	1.50	1.42	0.80	1.63	-0.02	-1.3%
SC-274.04	10 min	4386	2.19	2.14	0.17	2.15	2.13	2.11	1.94	1.85	1.03	2.13	-0.02	-1.1%
SC-274.05	20 min	4450	2.66	2.55	0.39	2.60	2.68	2.45	2.60	2.48	1.35	2.68	0.08	3.1%
SC-275.01	10 min	4386	0.32	0.31	0.02	0.32	0.31	0.31	0.28	0.26	0.14	0.31	-0.01	-2.2%
SC-276.01	10 min	4386	0.24	0.24	0.02	0.24	0.22	0.24	0.20	0.19	0.10	0.24	0.00	-0.5%
SC-277.01	10 min	4386	0.29	0.29	0.02	0.30	0.27	0.29	0.26	0.25	0.13	0.29	-0.01	-2.9%
SC-278.01	10 min	4387	0.19	0.19	0.01	0.19	0.17	0.19	0.15	0.15	0.08	0.19	0.00	-0.3%
SC-278.02	20 min	4449	1.93	1.94	0.44	1.95	1.46	1.51	1.92	1.96	1.13	1.96	0.01	0.3%
SC-279.01	20 min	4452	0.29	0.28	0.05	0.29	0.26	0.27	0.27	0.27	0.15	0.27	-0.02	-6.7%
SC-279.02	20 min	4452	1.84	1.86	0.46	1.91	1.45	1.40	1.93	1.95	1.07	1.95	0.04	2.2%
SC-28.01	45 min	4549	0.16	0.18	0.03	0.18	0.07	0.14	0.14	0.13	0.10	0.14	-0.04	-22.9%
SC-28.02	20 min	4452	0.41	0.40	0.06	0.42	0.37	0.36	0.37	0.37	0.25	0.37	-0.05	-10.8%
SC-28.03	20 min	4451	0.61	0.58	0.08	0.60	0.58	0.57	0.57	0.55	0.34	0.58	-0.02	-2.9%
SC-28.04	10 min	4386	1.37	1.34	0.10	1.35	1.33	1.33	1.26	1.21	0.69	1.33	-0.02	-1.3%
SC-280.01	10 min	4386	0.28	0.28	0.02	0.28	0.27	0.28	0.25	0.24	0.14	0.28	0.00	-0.5%
SC-29.01	10 min	4386	0.23	0.23	0.02	0.23	0.21	0.23	0.19	0.19	0.09	0.23	0.00	0.3%
SC-29.02	10 min	4386	0.65	0.63	0.04	0.64	0.61	0.63	0.56	0.53	0.28	0.63	-0.01	-0.8%
SC-3.01	20 min	4448	0.25	0.24	0.03	0.24	0.23	0.25	0.23	0.22	0.13	0.25	0.01	2.1%
SC-3.02	20 min	4451	0.82	0.79	0.11	0.80	0.79	0.78	0.75	0.73	0.45	0.79	-0.01	-1.8%
SC-30.01	10 min	4386	0.40	0.40	0.03	0.41	0.37	0.40	0.34	0.32	0.17	0.40	-0.01	-3.0%
SC-30.02	10 min	4386	0.74	0.72	0.05	0.73	0.71	0.72	0.66	0.62	0.32	0.72	-0.01	-2.0%
SC-30.03	10 min	4386	1.02	0.99	0.08	1.00	0.99	0.98	0.91	0.87	0.45	0.99	-0.01	-0.8%
SC-30.04	10 min	4386	1.30	1.27	0.10	1.28	1.27	1.25	1.16	1.10	0.58	1.27	-0.01	-0.9%
SC-31.01	10 min	4386	0.26	0.26	0.02	0.26	0.24	0.26	0.24	0.23	0.12	0.26	0.00	-0.8%
SC-31.02	10 min	4386	0.56	0.55	0.04	0.55	0.55	0.54	0.51	0.49	0.26	0.55	0.00	-0.1%
SC-32.01	45 min	4553	0.21	0.21	0.03	0.21	0.13	0.17	0.19	0.19	0.12	0.19	-0.02	-8.5%
SC-32.02	45 min	4553	0.30	0.31	0.04	0.31	0.19	0.25	0.26	0.26	0.18	0.26	-0.05	-15.6%
SC-33.01	10 min	4386	0.34	0.33	0.03	0.34	0.31	0.34	0.29	0.27	0.14	0.34	0.00	-1.2%
SC-33.02	10 min	4386	0.79	0.76	0.06	0.77	0.76	0.76	0.69	0.66	0.35	0.76	-0.01	-1.6%
SC-34.01	10 min	4386	0.26	0.26	0.02	0.26	0.24	0.26	0.24	0.23	0.12	0.26	0.00	-0.6%
SC-34.02	10 min	4386	0.52	0.51	0.04	0.53	0.48	0.52	0.48	0.46	0.24	0.52	-0.01	-2.5%
SC-34.03	10 min	4386	0.64	0.63	0.05	0.65	0.59	0.63	0.55	0.53	0.29	0.63	-0.02	-2.4%
SC-35.01	10 min	4386	0.25	0.25	0.02	0.25	0.23	0.25	0.21	0.19	0.10	0.25	0.00	-1.1%
SC-35.02	10 min	4386	0.71	0.70	0.05	0.71	0.67	0.70	0.60	0.56	0.29	0.70	-0.01	-1.6%
SC-35.03	10 min	4386	1.14	1.12	0.07	1.14	1.08	1.12	0.96	0.90	0.46	1.12	-0.02	-1.4%
SC-35.04	10 min	4386	1.23	1.20	0.08	1.23	1.16	1.21	1.03	0.96	0.49	1.21	-0.02	-2.0%
SC-36.01	10 min	4386	0.52	0.51	0.04	0.52	0.48	0.51	0.44	0.41	0.22	0.51	-0.01	-2.1%
SC-36.02	10 min	4386	0.93	0.91	0.08	0.94	0.86	0.92	0.78	0.75	0.39	0.92	-0.02	-2.1%
SC-37.01	10 min	4387	0.20	0.20	0.02	0.21	0.18	0.21	0.17	0.16	0.08	0.21	0.00	-1.5%
SC-37.02	10 min	4386	0.56	0.55	0.04	0.57	0.53	0.56	0.49	0.47	0.24	0.56	-0.01	-2.2%
SC-38.01	10 min	4386	0.23	0.23	0.02	0.24	0.21	0.23	0.20	0.19	0.10	0.23	-0.01	-2.5%
SC-39.01	10 min	4382	0.14	0.14	0.01	0.14	0.12	0.14	0.12	0.11	0.06	0.14	0.00	2.1%
SC-4.01	45 min	4553	0.25	0.26	0.04	0.26	0.20	0.22	0.23	0.24	0.16	0.24	-0.02	-7.8%
SC-40.01	10 min	4386	0.32	0.31	0.02	0.32	0.30	0.31	0.27	0.25	0.13	0.31	-0.01	-2.9%
SC-41.01	10 min	4387	0.21	0.21	0.02	0.22	0.19	0.21	0.17	0.16	0.08	0.21	-0.01	-2.4%
SC-42.01	10 min	4386	0.70	0.69	0.06	0.70	0.66	0.69	0.59	0.56	0.28	0.69	-0.01	-1.5%
SC-43.01	10 min	4382	0.16	0.16	0.01	0.16	0.14	0.16	0.12	0.12	0.06	0.16	0.00	1.8%
SC-44.01	10 min	4386	0.48	0.47	0.04	0.48	0.45	0.47	0.41	0.39	0.20	0.47	-0.01	-1.6%
SC-44.02	10 min	4386	0.78	0.76	0.06	0.78	0.75	0.76	0.69	0.65	0.34	0.76	-0.02	-2.3%
SC-44.03	10 min	4386	1.06	1.04	0.08	1.04	1.03	1.02	0.95	0.90	0.47	1.03	-0.01	-1.0%
SC-44.04	10 min	4386	1.60	1.56	0.13	1.56	1.55	1.53	1.44	1.36	0.73	1.55	-0.01	-0.4%
SC-44.05	10 min	4388	2.83	2.78	0.19	2.78	2.78	2.72	2.54	2.42	1.29	2.78	0.00	0.0%
SC-44.06	10 min	4386	3.00	2.94	0.16	2.97	2.92	2.90	2.72	2.58	1.39	2.92	-0.05	-1.7%
SC-44.07	20 min	4445	2.49	2.47	0.11	2.49	2.46	2.40	2.57	2.49	1.50	2.57	0.08	3.2%
SC-44.08	10 min	4389	3.27	3.26	0.07	3.27	3.32	3.16	3.39	3.31	1.88	3.39	0.12	3.7%
SC-44.09	20 min	4449	3.53	3.53	0.18	3.53	3.44	3.36	3.69	3.59	2.09	3.69	0.16	4.5%
SC-44.10	20 min	4551	0.66	0.66	0.09	0.66	0.59	0.64	0.64	0.66	0.68	0.68	0.02	2.5%
SC-44.11	20 min	4551	4.04	3.75	0.96	3.81	0.65	1.18	1.18	1.49	4.37	4.37	0.56	14.8%
SC-44.12	20 min	4545	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
SC-44.13	20 min	4551	0.14	0.15	0.02	0.15	0.00	0.03	0.03	0.12	0.16	0.16	0.01	8.8%
SC-44.14	20 min	4551	0.71	0.69	0.10	0.72	0.04	0.08	0.08	0.38	0.79	0.79	0.07	10.3%
SC-44.15	15 min	4547	1.91	1.90	0.06	1.92	1.82	1.77	1.98	1.96	1.75	1.98	0.06	3.3%
SC-44.16	45 min	4547	1.96	2.01	0.14	2.01	1.83	1.81	2.02	2.01	1.79	2.02	0.01	0.5%
SC-44.17	20 min	4451	4.56	4.50	0.32	4.57	4.61	4.20	4.68	4.60	2.93	4.68	0.11	2.3%
SC-44.18	20 min	4451	4.69	4.61	0.31	4.62	4.64	4.33	4.85	4.72	3.08	4.85	0.23	5.0%
SC-44.19	20 min	4449	5.17	5.08	0.35	5.10	5.03	4.86	5.34	5.19	3.37	5.34	0.24	4.7%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-44.20	45 min	4547	5.09	5.11	0.44	5.11	4.41	4.44	5.28	5.11	3.53	5.28	0.17	3.2%
SC-45.01	10 min	4386	0.34	0.34	0.03	0.34	0.32	0.34	0.30	0.29	0.16	0.34	0.00	-0.8%
SC-46.01	10 min	4386	0.29	0.28	0.02	0.29	0.27	0.28	0.25	0.23	0.12	0.28	-0.01	-2.0%
SC-46.02	10 min	4386	0.50	0.49	0.04	0.49	0.48	0.49	0.45	0.42	0.22	0.49	0.00	-0.9%
SC-46.03	10 min	4386	0.75	0.73	0.06	0.73	0.73	0.72	0.67	0.64	0.34	0.73	0.00	0.3%
SC-46.04	10 min	4388	0.85	0.83	0.07	0.83	0.83	0.81	0.76	0.73	0.38	0.83	0.00	0.5%
SC-47.01	10 min	4386	0.47	0.45	0.04	0.46	0.44	0.45	0.40	0.38	0.20	0.45	-0.01	-1.9%
SC-48.01	10 min	4386	0.35	0.34	0.03	0.35	0.33	0.34	0.30	0.28	0.15	0.34	-0.01	-1.8%
SC-48.02	10 min	4386	0.56	0.55	0.04	0.55	0.55	0.54	0.51	0.49	0.25	0.55	0.00	-0.6%
SC-49.01	10 min	4386	0.41	0.40	0.03	0.41	0.37	0.40	0.34	0.32	0.17	0.40	-0.01	-1.4%
SC-5.01	10 min	4386	0.24	0.24	0.02	0.25	0.23	0.24	0.22	0.21	0.11	0.24	-0.01	-2.7%
SC-50.01	10 min	4386	0.14	0.14	0.01	0.14	0.13	0.14	0.13	0.13	0.06	0.14	0.00	-2.9%
SC-51.01	10 min	4382	0.15	0.14	0.01	0.14	0.13	0.15	0.12	0.12	0.06	0.15	0.01	5.7%
SC-52.01	10 min	4382	0.15	0.15	0.01	0.15	0.13	0.15	0.13	0.12	0.06	0.15	0.00	0.5%
SC-53.01	10 min	4386	0.34	0.33	0.03	0.34	0.32	0.33	0.29	0.27	0.14	0.33	-0.01	-1.8%
SC-53.02	10 min	4388	0.71	0.69	0.05	0.69	0.69	0.67	0.64	0.61	0.32	0.69	0.00	0.5%
SC-53.03	10 min	4386	0.87	0.84	0.07	0.85	0.84	0.83	0.76	0.73	0.38	0.84	-0.01	-1.1%
SC-54.01	10 min	4386	0.28	0.28	0.02	0.28	0.26	0.28	0.24	0.22	0.12	0.28	0.00	-1.1%
SC-54.02	10 min	4386	0.54	0.53	0.04	0.53	0.53	0.52	0.49	0.46	0.24	0.53	0.00	-0.8%
SC-55.01	10 min	4386	0.44	0.43	0.04	0.44	0.40	0.43	0.37	0.35	0.18	0.43	-0.01	-1.8%
SC-56.01	10 min	4387	0.20	0.20	0.01	0.20	0.19	0.20	0.18	0.18	0.09	0.20	0.00	0.4%
SC-57.01	20 min	4448	0.14	0.14	0.02	0.14	0.13	0.14	0.13	0.13	0.07	0.14	0.00	-2.6%
SC-58.01	10 min	4386	0.28	0.27	0.02	0.28	0.27	0.27	0.24	0.23	0.12	0.27	-0.01	-2.8%
SC-59.01	10 min	4386	0.37	0.36	0.03	0.36	0.36	0.36	0.33	0.31	0.17	0.36	0.00	-0.3%
SC-59.02	10 min	4388	0.73	0.71	0.05	0.72	0.72	0.70	0.66	0.62	0.33	0.72	0.00	-0.5%
SC-59.03	10 min	4388	1.06	1.04	0.08	1.04	1.04	1.01	0.96	0.91	0.48	1.04	0.00	-0.1%
SC-59.04	10 min	4388	1.35	1.32	0.11	1.33	1.33	1.28	1.22	1.16	0.62	1.33	0.00	-0.2%
SC-59.05	10 min	4388	2.83	2.78	0.19	2.79	2.79	2.69	2.63	2.51	1.37	2.79	0.00	0.0%
SC-59.06	10 min	4388	3.30	3.29	0.20	3.30	3.30	3.10	3.08	2.95	1.61	3.30	0.00	0.0%
SC-59.07	10 min	4391	5.50	5.49	0.38	5.49	5.52	5.10	5.22	5.01	2.79	5.52	0.03	0.5%
SC-59.08	45 min	4547	4.97	5.09	0.75	5.09	4.03	3.75	5.29	5.09	3.01	5.29	0.20	4.0%
SC-59.09	45 min	4553	6.04	6.08	0.91	6.08	2.89	4.32	5.98	5.73	3.66	5.98	-0.10	-1.6%
SC-59.10	2 hours	4643	4.09	3.66	1.23	3.73	0.49	0.77	0.78	2.98	3.73	3.73	0.00	-0.1%
SC-6.01	10 min	4386	0.32	0.32	0.03	0.32	0.30	0.32	0.27	0.26	0.13	0.32	0.00	-0.3%
SC-60.01	20 min	4451	0.23	0.23	0.03	0.23	0.21	0.22	0.21	0.21	0.12	0.22	-0.01	-3.6%
SC-60.02	10 min	4386	0.99	0.97	0.07	0.99	0.94	0.97	0.91	0.89	0.49	0.97	-0.02	-1.9%
SC-61.01	15 min	4418	0.52	0.52	0.06	0.54	0.48	0.51	0.49	0.48	0.25	0.51	-0.03	-5.1%
SC-62.01	10 min	4386	0.34	0.33	0.03	0.34	0.31	0.33	0.29	0.27	0.14	0.33	-0.01	-1.6%
SC-63.01	20 min	4451	0.17	0.17	0.03	0.17	0.16	0.17	0.16	0.16	0.09	0.17	0.00	-2.1%
SC-64.01	10 min	4386	0.25	0.25	0.02	0.25	0.24	0.25	0.22	0.20	0.11	0.25	0.00	-1.0%
SC-64.02	10 min	4388	0.85	0.84	0.07	0.84	0.84	0.80	0.77	0.73	0.40	0.84	0.00	-0.2%
SC-64.03	10 min	4388	1.60	1.57	0.12	1.57	1.57	1.52	1.44	1.36	0.73	1.57	0.00	0.3%
SC-64.04	10 min	4388	2.17	2.14	0.16	2.15	2.15	2.06	2.03	1.93	1.08	2.15	0.00	-0.2%
SC-65.01	10 min	4386	0.20	0.20	0.01	0.20	0.18	0.20	0.17	0.16	0.09	0.20	0.00	-1.9%
SC-66.01	10 min	4387	0.16	0.16	0.01	0.16	0.14	0.16	0.14	0.14	0.07	0.16	0.00	-0.8%
SC-66.02	20 min	4449	0.32	0.31	0.06	0.31	0.29	0.26	0.30	0.30	0.19	0.30	-0.01	-2.2%
SC-67.01	10 min	4386	0.28	0.28	0.02	0.29	0.26	0.28	0.24	0.23	0.12	0.28	-0.01	-3.1%
SC-68.01	10 min	4386	0.39	0.38	0.03	0.39	0.36	0.38	0.33	0.31	0.16	0.38	-0.01	-1.6%
SC-68.02	10 min	4386	0.74	0.73	0.05	0.73	0.72	0.72	0.66	0.63	0.32	0.72	-0.01	-1.4%
SC-68.03	10 min	4386	1.35	1.32	0.11	1.34	1.29	1.31	1.18	1.12	0.58	1.31	-0.03	-2.0%
SC-69.01	10 min	4386	0.33	0.33	0.03	0.34	0.31	0.33	0.28	0.26	0.13	0.33	-0.01	-2.8%
SC-7.01	10 min	4386	0.42	0.41	0.03	0.42	0.40	0.41	0.37	0.35	0.20	0.41	-0.01	-2.2%
SC-70.01	10 min	4386	0.31	0.31	0.03	0.31	0.28	0.31	0.26	0.25	0.13	0.31	0.00	-0.7%
SC-70.02	10 min	4386	0.49	0.48	0.04	0.49	0.47	0.48	0.44	0.41	0.21	0.48	-0.01	-1.3%
SC-71.01	10 min	4386	0.38	0.38	0.03	0.38	0.36	0.38	0.32	0.31	0.16	0.38	0.00	-0.7%
SC-71.02	10 min	4386	0.74	0.73	0.05	0.73	0.72	0.72	0.66	0.63	0.33	0.72	-0.01	-1.3%
SC-72.01	10 min	4386	0.41	0.41	0.03	0.42	0.38	0.41	0.35	0.33	0.17	0.41	-0.01	-2.7%
SC-73.01	10 min	4386	0.33	0.32	0.03	0.33	0.31	0.32	0.28	0.27	0.14	0.32	-0.01	-2.5%
SC-74.01	10 min	4386	0.38	0.37	0.03	0.38	0.36	0.38	0.33	0.31	0.16	0.38	0.00	-1.3%
SC-75.01	20 min	4448	0.22	0.21	0.03	0.22	0.20	0.22	0.21	0.20	0.11	0.22	0.00	-1.0%
SC-75.02	20 min	4451	0.87	0.84	0.12	0.86	0.85	0.82	0.81	0.78	0.44	0.85	-0.01	-1.7%
SC-75.03	10 min	4386	1.30	1.27	0.09	1.28	1.26	1.26	1.21	1.16	0.64	1.26	-0.02	-1.6%
SC-75.04	10 min	4388	2.30	2.26	0.17	2.26	2.26	2.21	2.13	2.03	1.11	2.26	0.00	0.0%
SC-76.01	20 min	4452	0.28	0.27	0.05	0.27	0.24	0.24	0.26	0.27	0.15	0.27	0.00	-1.5%
SC-77.01	10 min	4386	0.46	0.45	0.04	0.46	0.42	0.45	0.38	0.36	0.19	0.45	-0.01	-2.5%
SC-77.02	10 min	4386	0.69	0.68	0.06	0.70	0.64	0.69	0.59	0.56	0.29	0.69	-0.01	-2.0%
SC-77.03	10 min	4386	0.99	0.96	0.07	0.98	0.93	0.97	0.85	0.81	0.42	0.97	-0.01	-1.3%
SC-78.01	10 min	4386	0.43	0.42	0.04	0.43	0.40	0.42	0.36	0.34	0.18	0.42	-0.01	-1.9%

ARR2019 Results for 20%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4388	4448	4450	4547	4643			
SC-79.01	10 min	4386	0.49	0.49	0.04	0.50	0.45	0.49	0.41	0.39	0.21	0.49	-0.01	-1.7%
SC-79.02	10 min	4386	0.91	0.89	0.06	0.90	0.87	0.89	0.78	0.73	0.40	0.89	-0.01	-1.3%
SC-79.03	10 min	4386	1.94	1.90	0.14	1.90	1.89	1.86	1.72	1.62	0.87	1.89	-0.01	-0.5%
SC-8.01	10 min	4386	0.35	0.35	0.03	0.35	0.33	0.35	0.31	0.30	0.16	0.35	0.00	-0.9%
SC-8.02	10 min	4388	0.88	0.86	0.07	0.86	0.86	0.84	0.80	0.76	0.41	0.86	0.00	0.1%
SC-8.03	10 min	4388	2.30	2.26	0.18	2.27	2.27	2.19	2.07	1.97	1.06	2.27	0.00	-0.1%
SC-8.04	10 min	4388	4.05	3.95	0.33	3.96	3.96	3.87	3.63	3.44	1.85	3.96	0.00	-0.1%
SC-8.05	10 min	4386	4.44	4.34	0.29	4.39	4.29	4.30	3.97	3.75	2.06	4.30	-0.09	-2.0%
SC-8.06	10 min	4386	4.63	4.55	0.25	4.63	4.47	4.53	4.12	3.93	2.15	4.53	-0.10	-2.2%
SC-80.01	10 min	4386	0.45	0.45	0.04	0.46	0.41	0.45	0.38	0.36	0.19	0.45	-0.01	-2.3%
SC-80.02	10 min	4386	0.91	0.88	0.07	0.89	0.87	0.88	0.80	0.76	0.40	0.88	-0.01	-1.4%
SC-81.01	10 min	4386	0.33	0.32	0.02	0.33	0.31	0.32	0.29	0.28	0.15	0.32	-0.01	-1.9%
SC-81.02	10 min	4386	0.98	0.96	0.07	0.98	0.93	0.96	0.87	0.83	0.44	0.96	-0.02	-1.8%
SC-82.01	10 min	4386	0.40	0.39	0.03	0.40	0.37	0.39	0.34	0.32	0.17	0.39	-0.01	-1.8%
SC-83.01	10 min	4386	0.25	0.25	0.02	0.25	0.23	0.25	0.22	0.20	0.11	0.25	0.00	0.6%
SC-84.01	10 min	4386	0.37	0.37	0.03	0.38	0.35	0.37	0.32	0.30	0.16	0.37	-0.01	-2.7%
SC-84.02	10 min	4386	0.93	0.90	0.07	0.92	0.87	0.91	0.80	0.76	0.40	0.91	-0.01	-1.4%
SC-84.03	10 min	4386	1.22	1.18	0.10	1.20	1.16	1.18	1.08	1.02	0.54	1.18	-0.02	-1.9%
SC-84.04	10 min	4386	1.45	1.41	0.12	1.43	1.39	1.40	1.28	1.21	0.64	1.40	-0.03	-2.0%
SC-84.05	10 min	4386	1.73	1.70	0.10	1.73	1.67	1.69	1.54	1.47	0.77	1.69	-0.04	-2.1%
SC-84.06	10 min	4386	1.94	1.91	0.08	1.93	1.89	1.88	1.72	1.65	0.87	1.89	-0.04	-2.3%
SC-85.01	10 min	4386	0.24	0.24	0.02	0.24	0.22	0.24	0.20	0.19	0.10	0.24	0.00	-1.0%
SC-86.01	10 min	4386	0.35	0.34	0.03	0.35	0.33	0.34	0.30	0.29	0.15	0.34	-0.01	-3.2%
SC-86.02	10 min	4386	0.70	0.68	0.06	0.70	0.65	0.68	0.60	0.57	0.34	0.68	-0.02	-2.4%
SC-87.01	10 min	4386	0.52	0.51	0.04	0.53	0.48	0.52	0.44	0.42	0.22	0.52	-0.01	-2.5%
SC-87.02	10 min	4386	0.91	0.89	0.07	0.91	0.85	0.89	0.78	0.74	0.39	0.89	-0.02	-1.8%
SC-88.01	10 min	4386	0.24	0.24	0.02	0.24	0.22	0.24	0.20	0.19	0.10	0.24	0.00	-1.5%
SC-88.02	10 min	4386	0.39	0.38	0.03	0.38	0.37	0.38	0.34	0.32	0.18	0.38	0.00	-0.6%
SC-89.01	10 min	4386	0.26	0.25	0.02	0.26	0.24	0.25	0.22	0.21	0.11	0.25	-0.01	-3.4%
SC-89.02	10 min	4386	0.28	0.27	0.02	0.28	0.27	0.27	0.25	0.24	0.13	0.27	-0.01	-2.3%
SC-9.01	10 min	4386	0.33	0.32	0.03	0.33	0.31	0.33	0.28	0.27	0.14	0.33	0.00	-1.2%
SC-90.01	10 min	4386	0.10	0.10	0.01	0.10	0.10	0.10	0.09	0.08	0.05	0.10	0.00	-1.7%
SC-91.01	10 min	4386	0.30	0.30	0.02	0.30	0.28	0.30	0.25	0.24	0.12	0.30	0.00	-0.6%
SC-91.02	10 min	4386	0.64	0.62	0.05	0.62	0.61	0.61	0.55	0.52	0.27	0.61	-0.01	-1.0%
SC-92.01	10 min	4386	0.29	0.29	0.02	0.30	0.28	0.29	0.26	0.25	0.13	0.29	-0.01	-3.3%
SC-92.02	10 min	4386	0.84	0.82	0.06	0.83	0.82	0.81	0.76	0.72	0.40	0.82	-0.01	-1.1%
SC-93.01	10 min	4386	0.32	0.32	0.03	0.32	0.30	0.32	0.28	0.26	0.14	0.32	0.00	-0.4%
SC-94.01	10 min	4386	0.36	0.36	0.03	0.37	0.34	0.36	0.30	0.29	0.15	0.36	-0.01	-2.9%
SC-94.02	10 min	4386	0.87	0.84	0.07	0.85	0.83	0.84	0.75	0.71	0.37	0.84	-0.01	-1.5%
SC-95.01	10 min	4387	0.22	0.22	0.02	0.22	0.20	0.22	0.18	0.17	0.08	0.22	0.00	0.8%
SC-95.02	10 min	4386	0.53	0.53	0.04	0.53	0.50	0.53	0.44	0.42	0.21	0.53	0.00	-0.5%
SC-96.01	10 min	4386	0.24	0.24	0.02	0.25	0.22	0.24	0.20	0.19	0.10	0.24	-0.01	-3.1%
SC-97.01	10 min	4387	0.17	0.17	0.01	0.17	0.15	0.17	0.13	0.13	0.06	0.17	0.00	-0.3%
SC-97.02	10 min	4386	0.97	0.95	0.08	0.96	0.94	0.94	0.86	0.81	0.43	0.94	-0.02	-1.6%
SC-98.01	10 min	4386	0.28	0.27	0.02	0.28	0.26	0.27	0.24	0.23	0.12	0.27	-0.01	-2.7%
SC-99.01	10 min	4386	0.28	0.27	0.02	0.28	0.25	0.27	0.23	0.22	0.11	0.27	-0.01	-2.4%
SC-99.02	10 min	4388	0.73	0.73	0.06	0.73	0.73	0.69	0.68	0.64	0.33	0.73	0.00	0.3%
SC-99.03	10 min	4388	1.28	1.27	0.10	1.27	1.27	1.22	1.18	1.11	0.58	1.27	0.00	-0.2%
SC-99.04	10 min	4386	3.41	3.33	0.24	3.36	3.31	3.29	3.06	2.90	1.56	3.31	-0.05	-1.6%
Dummy1	20 min	4449	15.05	14.50	1.94	14.66	13.94	13.40	16.16	15.58	8.83	16.16	1.50	10.3%
Dummy2	45 min	4552	26.75	26.92	2.30	26.92	19.30	25.33	23.64	26.59	17.87	26.59	-0.34	-1.2%
Dummy3	45 min	4547	55.00	55.30	3.29	55.30	40.01	47.80	50.81	55.30	42.42	55.30	0.00	0.0%
DummyOut	45 min	4547	56.62	57.46	3.44	57.46	40.32	48.46	51.27	57.46	57.75	57.75	0.28	0.5%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	15 min	20 min	60 min	120min		m³/s	%
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624			
SC-1.01	15 min	4413	0.64	0.66	0.06	0.67	0.59	0.68	0.60	0.47	0.42	0.68	0.01	0.9%
SC-1.02	15 min	4413	1.39	1.44	0.13	1.44	1.29	1.48	1.32	1.02	0.91	1.48	0.04	2.8%
SC-1.03	15 min	4413	1.66	1.70	0.15	1.72	1.54	1.73	1.54	1.21	1.09	1.73	0.01	0.6%
SC-1.04	15 min	4413	4.44	4.54	0.39	4.66	3.92	4.82	4.32	3.29	2.93	4.82	0.16	3.5%
SC-1.05	15 min	4411	4.78	4.86	0.38	4.95	4.32	5.09	4.58	3.56	3.19	5.09	0.14	2.8%
SC-1.06	15 min	4411	5.45	5.53	0.39	5.61	5.06	5.83	5.31	4.10	3.65	5.83	0.22	3.8%
SC-1.07	15 min	4411	5.53	5.61	0.36	5.62	5.21	5.84	5.33	4.17	3.73	5.84	0.22	4.0%
SC-1.08	1 hour	4565	5.43	5.42	0.73	5.62	1.23	2.72	3.87	5.62	4.01	5.62	0.00	0.0%
SC-1.09	1 hour	4565	5.81	5.91	0.63	6.04	2.95	3.47	3.98	6.04	4.43	6.04	0.00	0.1%
SC-1.10	1 hour	4565	5.87	6.00	0.61	6.12	3.30	3.73	3.99	6.12	4.50	6.12	0.00	0.0%
SC-1.11	15 min	4411	9.90	10.02	0.65	10.16	9.35	10.58	9.54	8.53	6.89	10.58	0.42	4.2%
SC-1.12	15 min	4411	12.22	12.22	0.78	12.36	11.64	13.02	11.89	10.03	8.42	13.02	0.66	5.4%
SC-1.13	15 min	4412	13.64	13.48	0.74	13.52	13.45	14.29	13.49	11.14	9.54	14.29	0.77	5.7%
SC-1.14	10 min	4374	16.18	16.14	0.16	16.16	16.05	16.93	16.14	12.75	11.29	16.93	0.77	4.8%
SC-1.15	15 min	4412	17.63	17.50	0.95	17.72	17.48	18.40	17.55	13.66	12.27	18.40	0.68	3.8%
SC-1.16	15 min	4414	19.97	19.86	0.92	19.90	18.28	19.49	19.65	16.06	14.14	19.65	-0.25	-1.2%
SC-1.17	15 min	4414	20.27	20.22	0.94	20.29	18.36	19.62	19.90	16.54	14.43	19.90	-0.39	-1.9%
SC-1.18	30 min	4509	14.55	14.63	0.55	14.77	13.38	14.20	14.51	14.53	12.49	14.53	-0.24	-1.6%
SC-1.19	1 hour	4573	13.88	13.38	1.23	13.52	9.00	10.16	11.01	15.58	11.90	15.58	2.06	15.2%
SC-1.20	1 hour	4573	13.49	13.00	1.00	13.06	8.68	9.91	10.78	14.92	12.20	14.92	1.86	14.2%
SC-1.21	1 hour	4563	13.55	13.07	0.97	13.08	8.69	9.91	10.79	14.93	12.96	14.93	1.85	14.1%
SC-1.22	1 hour	4563	13.82	13.56	0.79	13.77	8.70	9.93	10.81	14.98	14.00	14.98	1.21	8.8%
SC-1.23	1 hour	4475	16.99	16.48	1.35	16.49	13.29	14.97	16.21	16.35	17.29	17.29	0.80	4.8%
SC-1.24	1 hour	4568	23.72	24.03	2.95	25.12	21.99	23.18	24.45	22.94	21.17	24.45	-0.67	-2.7%
SC-1.25	1 hour	4568	24.17	24.65	3.04	25.89	22.27	23.31	24.53	23.40	21.48	24.53	-1.36	-5.2%
SC-1.26	1 hour	4568	25.64	26.45	3.38	28.15	22.63	23.71	24.84	24.75	22.33	24.84	-3.31	-11.8%
SC-1.27	1 hour	4568	26.04	26.92	3.47	28.70	22.88	24.01	25.10	25.13	22.65	25.13	-3.57	-12.4%
SC-1.28	1 hour	4569	33.62	34.92	5.09	35.14	27.90	33.53	33.14	34.70	28.83	34.70	-0.44	-1.2%
SC-1.29	1 hour	4565	35.62	36.90	5.34	37.52	28.38	34.65	34.27	37.52	30.50	37.52	0.00	0.0%
SC-1.30	1 hour	4565	36.22	37.39	5.38	38.21	28.58	35.01	34.93	38.21	31.07	38.21	0.00	0.0%
SC-1.31	1 hour	4573	36.63	37.65	5.41	38.51	28.73	35.25	35.41	38.66	31.51	38.66	0.15	0.4%
SC-1.32	30 min	4513	37.26	37.83	1.83	37.96	28.96	35.61	36.04	39.31	32.18	39.31	1.35	3.6%
SC-1.33	30 min	4509	38.71	38.94	1.16	39.05	29.23	36.03	36.79	40.62	33.74	40.62	1.57	4.0%
SC-1.34	30 min	4509	38.86	39.13	1.09	39.24	29.25	36.06	36.84	40.91	34.15	40.91	1.67	4.3%
SC-1.35	30 min	4511	39.07	39.34	1.00	39.37	29.29	36.12	36.94	41.21	34.53	41.21	1.84	4.7%
SC-1.36	45 min	4541	40.76	40.15	2.79	40.25	29.50	36.42	37.45	43.03	36.79	43.03	2.78	6.9%
SC-10.01	15 min	4416	0.66	0.67	0.07	0.67	0.64	0.68	0.57	0.42	0.42	0.68	0.01	1.0%
SC-100.01	15 min	4415	0.77	0.76	0.09	0.77	0.75	0.77	0.64	0.47	0.49	0.77	0.00	-0.5%
SC-100.02	15 min	4381	1.35	1.37	0.13	1.37	1.28	1.38	1.16	0.86	0.85	1.38	0.01	0.9%
SC-101.01	15 min	4413	0.82	0.84	0.08	0.84	0.77	0.87	0.73	0.54	0.52	0.87	0.03	3.5%
SC-101.02	15 min	4411	1.46	1.50	0.13	1.52	1.32	1.58	1.34	0.98	0.93	1.58	0.06	3.9%
SC-102.01	15 min	4415	0.64	0.64	0.07	0.65	0.62	0.65	0.54	0.40	0.40	0.65	-0.01	-0.8%
SC-102.02	15 min	4411	2.48	2.52	0.20	2.53	2.24	2.63	2.23	1.63	1.56	2.63	0.10	3.8%
SC-103.01	15 min	4415	0.43	0.43	0.05	0.43	0.42	0.43	0.36	0.26	0.27	0.43	0.00	0.5%
SC-103.02	15 min	4411	1.53	1.56	0.13	1.57	1.39	1.63	1.35	0.99	0.96	1.63	0.06	3.6%
SC-104.01	15 min	4415	0.39	0.39	0.04	0.39	0.37	0.39	0.33	0.24	0.25	0.39	0.00	1.2%
SC-105.01	15 min	4415	0.41	0.43	0.04	0.43	0.40	0.43	0.35	0.26	0.26	0.43	0.00	-0.9%
SC-105.02	15 min	4411	1.00	1.01	0.08	1.03	0.88	1.08	0.89	0.66	0.63	1.08	0.04	4.4%
SC-105.03	15 min	4411	2.33	2.37	0.19	2.41	2.06	2.51	2.08	1.53	1.47	2.51	0.10	4.1%
SC-105.04	15 min	4411	3.15	3.20	0.26	3.24	2.81	3.37	2.83	2.08	1.96	3.37	0.13	4.0%
SC-105.05	15 min	4411	3.78	3.85	0.31	3.94	3.33	4.09	3.51	2.58	2.40	4.09	0.15	3.9%
SC-105.06	15 min	4409	4.00	4.05	0.33	4.12	3.50	4.38	3.89	2.87	2.62	4.38	0.26	6.3%
SC-105.07	15 min	4409	5.86	5.98	0.39	6.08	5.30	6.29	5.76	4.41	3.95	6.29	0.21	3.4%
SC-105.08	15 min	4415	6.54	6.58	0.31	6.74	6.26	6.74	6.39	5.00	4.54	6.74	0.00	0.0%
SC-105.09	10 min	4372	8.76	8.73	0.09	8.74	8.76	8.39	8.47	6.38	5.89	8.76	0.02	0.3%
SC-106.01	15 min	4415	0.30	0.30	0.03	0.31	0.29	0.31	0.25	0.19	0.19	0.31	0.00	-1.5%
SC-107.01	15 min	4415	0.53	0.54	0.05	0.54	0.51	0.54	0.45	0.33	0.34	0.54	0.00	0.7%
SC-108.01	15 min	4415	0.38	0.38	0.04	0.38	0.37	0.38	0.32	0.23	0.24	0.38	0.00	0.3%
SC-109.01	15 min	4416	0.49	0.50	0.05	0.50	0.48	0.51	0.42	0.31	0.32	0.51	0.01	1.3%
SC-11.01	15 min	4413	0.41	0.42	0.04	0.42	0.39	0.42	0.35	0.26	0.26	0.42	0.00	0.3%
SC-110.01	15 min	4415	0.45	0.46	0.05	0.46	0.44	0.46	0.39	0.29	0.29	0.46	0.00	0.6%
SC-110.02	15 min	4411	1.07	1.09	0.09	1.10	0.96	1.14	0.97	0.71	0.67	1.14	0.03	3.2%
SC-110.03	15 min	4411	1.15	1.17	0.09	1.18	1.04	1.22	1.06	0.79	0.74	1.22	0.04	3.4%
SC-111.01	20 min	4435	0.31	0.30	0.05	0.31	0.21	0.32	0.35	0.27	0.20	0.35	0.04	12.3%
SC-112.01	15 min	4415	0.77	0.78	0.08	0.78	0.73	0.78	0.67	0.50	0.48	0.78	0.00	0.4%
SC-113.01	15 min	4381	0.28	0.29	0.03	0.29	0.27	0.29	0.24	0.18	0.18	0.29	0.00	0.4%
SC-113.02	15 min	4411	0.92	0.94	0.08	0.97	0.81	1.00	0.87	0.65	0.60	1.00	0.03	3.1%
SC-114.01	15 min	4411	0.49	0.51	0.05	0.51	0.46	0.52	0.47	0.36	0.32	0.52	0.01	2.7%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min			
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624		m ³ /s	%
SC-114.02	15 min	4411	0.80	0.82	0.07	0.82	0.72	0.85	0.74	0.56	0.51	0.85	0.03	3.2%
SC-114.03	15 min	4413	1.65	1.69	0.14	1.71	1.52	1.72	1.50	1.14	1.06	1.72	0.01	0.8%
SC-115.01	15 min	4415	0.44	0.45	0.05	0.45	0.42	0.45	0.38	0.28	0.28	0.45	0.00	-0.3%
SC-115.02	15 min	4408	0.73	0.74	0.06	0.75	0.67	0.76	0.65	0.48	0.46	0.76	0.01	1.7%
SC-116.01	15 min	4415	0.43	0.44	0.05	0.44	0.42	0.44	0.38	0.28	0.27	0.44	0.00	1.0%
SC-116.02	15 min	4416	0.72	0.74	0.07	0.75	0.67	0.75	0.64	0.48	0.46	0.75	0.00	-0.1%
SC-117.01	15 min	4416	0.26	0.26	0.03	0.26	0.25	0.27	0.22	0.16	0.16	0.27	0.01	2.0%
SC-118.01	15 min	4415	0.55	0.55	0.06	0.55	0.54	0.55	0.46	0.34	0.34	0.55	0.00	0.2%
SC-119.01	15 min	4416	0.86	0.88	0.08	0.88	0.81	0.88	0.75	0.56	0.54	0.88	0.00	0.1%
SC-119.02	15 min	4381	2.17	2.21	0.21	2.22	2.06	2.22	1.91	1.43	1.38	2.22	0.00	0.0%
SC-12.01	15 min	4416	0.47	0.48	0.05	0.48	0.45	0.49	0.41	0.30	0.30	0.49	0.01	1.2%
SC-12.02	15 min	4415	0.81	0.83	0.09	0.83	0.79	0.83	0.69	0.52	0.52	0.83	0.00	-0.3%
SC-12.03	15 min	4416	1.53	1.56	0.14	1.58	1.44	1.58	1.35	1.00	0.98	1.58	0.00	0.2%
SC-12.04	15 min	4416	1.95	1.98	0.18	2.00	1.83	2.02	1.73	1.30	1.25	2.02	0.02	0.8%
SC-120.01	15 min	4413	0.38	0.39	0.04	0.39	0.37	0.39	0.33	0.25	0.25	0.39	0.00	0.8%
SC-121.01	15 min	4413	0.48	0.49	0.05	0.49	0.46	0.50	0.42	0.31	0.31	0.50	0.01	1.2%
SC-122.01	15 min	4415	0.77	0.76	0.09	0.76	0.75	0.76	0.63	0.47	0.48	0.76	0.00	0.2%
SC-122.02	15 min	4416	1.25	1.27	0.12	1.28	1.18	1.28	1.08	0.80	0.79	1.28	0.00	0.1%
SC-122.03	15 min	4408	1.70	1.73	0.14	1.74	1.54	1.77	1.48	1.10	1.08	1.77	0.03	1.7%
SC-123.01	15 min	4415	0.39	0.40	0.04	0.40	0.37	0.40	0.33	0.25	0.25	0.40	0.00	-0.4%
SC-123.02	15 min	4408	1.15	1.16	0.09	1.17	1.04	1.20	1.01	0.74	0.73	1.20	0.03	2.4%
SC-123.03	15 min	4411	7.79	7.93	0.63	8.10	6.87	8.38	7.60	6.07	5.21	8.38	0.28	3.5%
SC-123.04	15 min	4411	7.94	8.08	0.63	8.22	7.04	8.50	7.71	6.18	5.29	8.50	0.28	3.4%
SC-123.05	15 min	4411	10.04	10.13	0.72	10.14	9.20	10.47	9.40	7.69	6.63	10.47	0.33	3.2%
SC-123.06	15 min	4410	10.27	10.41	0.67	10.45	9.62	10.53	9.50	7.88	6.85	10.53	0.08	0.8%
SC-123.07	15 min	4416	10.89	10.91	0.60	10.92	10.43	10.94	9.94	8.47	7.42	10.94	0.02	0.2%
SC-124.01	20 min	4444	0.46	0.45	0.07	0.48	0.35	0.48	0.50	0.44	0.31	0.50	0.02	3.9%
SC-124.02	20 min	4444	3.00	3.00	0.46	3.15	2.62	3.37	3.28	2.79	2.18	3.37	0.22	7.0%
SC-125.01	20 min	4435	0.64	0.64	0.10	0.67	0.47	0.67	0.71	0.59	0.42	0.71	0.04	6.0%
SC-126.01	15 min	4415	0.36	0.37	0.04	0.37	0.35	0.37	0.31	0.23	0.23	0.37	0.00	0.0%
SC-126.02	20 min	4444	0.84	0.82	0.13	0.88	0.70	0.92	0.92	0.81	0.59	0.92	0.04	5.1%
SC-126.03	15 min	4409	1.64	1.63	0.16	1.65	1.45	1.85	1.72	1.43	1.15	1.85	0.20	11.8%
SC-127.01	15 min	4415	0.85	0.84	0.10	0.85	0.83	0.85	0.70	0.52	0.53	0.85	-0.01	-0.6%
SC-127.02	15 min	4415	2.35	2.36	0.23	2.37	2.25	2.37	1.98	1.48	1.47	2.37	0.00	0.1%
SC-128.01	15 min	4415	0.84	0.85	0.09	0.85	0.81	0.85	0.71	0.53	0.52	0.85	0.00	-0.1%
SC-129.01	15 min	4408	0.43	0.44	0.04	0.44	0.39	0.47	0.41	0.30	0.27	0.47	0.03	6.0%
SC-13.01	15 min	4413	0.43	0.44	0.05	0.44	0.42	0.44	0.37	0.28	0.27	0.44	0.00	0.3%
SC-130.01	15 min	4415	0.63	0.64	0.07	0.64	0.61	0.64	0.54	0.40	0.40	0.64	0.00	0.0%
SC-131.01	15 min	4415	0.25	0.25	0.03	0.25	0.25	0.25	0.20	0.15	0.16	0.25	0.00	-0.5%
SC-132.01	15 min	4416	0.35	0.36	0.04	0.36	0.34	0.37	0.31	0.23	0.23	0.37	0.01	1.7%
SC-133.01	15 min	4415	0.26	0.26	0.03	0.26	0.25	0.26	0.22	0.16	0.16	0.26	0.00	-0.9%
SC-134.01	15 min	4416	0.22	0.22	0.02	0.22	0.20	0.22	0.19	0.15	0.14	0.22	0.00	1.7%
SC-134.02	10 min	4376	0.69	0.70	0.03	0.70	0.68	0.75	0.70	0.52	0.42	0.75	0.05	7.2%
SC-134.03	15 min	4410	1.37	1.32	0.16	1.32	1.32	1.59	1.48	1.09	0.88	1.59	0.27	20.4%
SC-134.04	20 min	4435	1.92	1.89	0.31	1.94	1.77	2.25	2.12	1.56	1.25	2.25	0.31	15.8%
SC-135.01	15 min	4415	0.17	0.18	0.02	0.18	0.17	0.18	0.15	0.11	0.11	0.18	0.00	-1.7%
SC-135.02	15 min	4408	0.98	1.00	0.08	1.00	0.90	1.02	0.87	0.64	0.62	1.02	0.02	2.4%
SC-135.03	15 min	4408	1.29	1.32	0.11	1.34	1.19	1.35	1.15	0.86	0.83	1.35	0.01	0.7%
SC-135.04	15 min	4408	2.87	2.92	0.24	2.94	2.61	3.00	2.58	1.93	1.81	3.00	0.06	2.1%
SC-135.05	15 min	4410	3.22	3.27	0.23	3.28	3.00	3.34	2.93	2.17	2.07	3.34	0.06	1.7%
SC-135.06	15 min	4411	5.26	5.34	0.37	5.37	4.94	5.61	4.87	3.65	3.38	5.61	0.24	4.5%
SC-136.01	15 min	4415	0.51	0.52	0.06	0.52	0.50	0.52	0.44	0.33	0.33	0.52	0.00	0.4%
SC-137.01	15 min	4416	0.53	0.54	0.05	0.54	0.49	0.54	0.46	0.34	0.33	0.54	0.00	-0.3%
SC-138.01	15 min	4416	0.64	0.65	0.06	0.66	0.61	0.66	0.56	0.43	0.41	0.66	0.00	-0.1%
SC-139.01	15 min	4413	0.62	0.64	0.06	0.64	0.59	0.64	0.55	0.42	0.39	0.64	0.00	0.1%
SC-139.02	15 min	4413	0.76	0.77	0.07	0.78	0.71	0.78	0.68	0.51	0.48	0.78	0.00	0.5%
SC-14.01	15 min	4415	0.75	0.76	0.08	0.76	0.73	0.76	0.64	0.48	0.48	0.76	0.00	0.0%
SC-14.02	15 min	4416	1.19	1.21	0.11	1.23	1.11	1.23	1.04	0.77	0.75	1.23	0.00	0.2%
SC-14.03	15 min	4416	1.55	1.59	0.14	1.61	1.44	1.61	1.38	1.02	0.98	1.61	0.00	0.1%
SC-140.01	15 min	4381	0.43	0.44	0.04	0.44	0.41	0.44	0.38	0.28	0.27	0.44	0.00	1.0%
SC-141.01	20 min	4435	0.66	0.66	0.11	0.66	0.64	0.82	0.69	0.51	0.43	0.82	0.16	24.5%
SC-142.01	20 min	4435	1.05	1.04	0.17	1.08	0.78	1.11	1.17	0.94	0.68	1.17	0.09	8.5%
SC-143.01	15 min	4413	0.38	0.38	0.04	0.40	0.33	0.43	0.41	0.37	0.28	0.43	0.03	7.2%
SC-143.02	15 min	4409	3.50	3.45	0.38	3.52	3.12	3.99	3.49	2.60	2.32	3.99	0.47	13.3%
SC-144.01	15 min	4408	0.51	0.52	0.05	0.53	0.46	0.53	0.47	0.37	0.33	0.53	0.00	0.2%
SC-144.02	15 min	4411	0.72	0.74	0.06	0.75	0.65	0.77	0.68	0.55	0.49	0.77	0.02	2.3%
SC-144.03	15 min	4410	0.95	0.96	0.06	0.96	0.90	0.98	0.93	0.75	0.65	0.98	0.02	2.0%
SC-144.04	10 min	4376	1.68	1.68	0.03	1.69	1.67	1.73	1.67	1.29	1.10	1.73	0.04	2.3%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624			
SC-144.05	10 min	4376	3.18	3.20	0.09	3.21	3.17	3.35	3.05	2.32	1.94	3.35	0.14	4.3%
SC-145.01	15 min	4381	0.65	0.65	0.06	0.65	0.61	0.65	0.55	0.41	0.41	0.65	0.00	0.7%
SC-145.02	15 min	4416	1.21	1.22	0.10	1.24	1.10	1.24	1.02	0.76	0.76	1.24	0.00	0.2%
SC-146.01	20 min	4436	1.19	1.17	0.17	1.18	0.75	1.19	1.34	1.03	0.79	1.34	0.16	13.6%
SC-147.01	20 min	4435	0.57	0.56	0.10	0.57	0.52	0.71	0.62	0.45	0.36	0.71	0.14	25.4%
SC-147.02	20 min	4435	0.80	0.79	0.14	0.80	0.72	0.98	0.88	0.63	0.53	0.98	0.18	22.3%
SC-147.03	20 min	4440	2.10	2.12	0.33	2.14	2.01	2.55	2.19	1.61	1.42	2.55	0.41	19.1%
SC-148.01	15 min	4413	0.54	0.55	0.05	0.55	0.51	0.56	0.47	0.34	0.34	0.56	0.01	1.8%
SC-148.02	15 min	4410	1.12	1.14	0.19	1.15	1.11	1.34	1.11	0.82	0.75	1.34	0.19	16.8%
SC-149.01	15 min	4411	0.39	0.40	0.03	0.40	0.34	0.42	0.38	0.32	0.26	0.42	0.02	4.1%
SC-149.02	20 min	4435	1.19	1.21	0.19	1.22	1.15	1.45	1.24	0.93	0.81	1.45	0.23	18.9%
SC-15.01	15 min	4381	0.77	0.78	0.07	0.78	0.72	0.78	0.67	0.50	0.48	0.78	0.00	0.4%
SC-15.02	15 min	4415	1.01	1.03	0.10	1.03	0.96	1.03	0.89	0.68	0.64	1.03	0.00	-0.1%
SC-15.03	15 min	4416	1.63	1.66	0.14	1.68	1.50	1.69	1.44	1.09	1.04	1.69	0.01	0.6%
SC-150.01	15 min	4415	0.46	0.47	0.05	0.47	0.45	0.47	0.39	0.29	0.29	0.47	0.00	-0.6%
SC-150.02	15 min	4416	0.91	0.93	0.08	0.94	0.85	0.94	0.81	0.60	0.58	0.94	0.00	0.2%
SC-150.03	15 min	4408	2.35	2.39	0.20	2.40	2.14	2.45	2.10	1.55	1.49	2.45	0.05	2.2%
SC-150.04	15 min	4408	3.04	3.09	0.23	3.11	2.81	3.14	2.72	2.03	1.95	3.14	0.02	0.8%
SC-150.05	15 min	4410	4.22	4.26	0.30	4.29	3.98	4.37	3.77	2.87	2.69	4.37	0.08	2.0%
SC-150.06	15 min	4410	7.69	7.71	0.47	7.86	7.43	7.96	7.10	5.40	4.92	7.96	0.10	1.3%
SC-150.07	15 min	4410	12.29	12.41	0.80	12.53	11.69	12.87	11.33	8.61	7.74	12.87	0.34	2.7%
SC-150.08	2 hours	4622	5.83	5.47	1.65	5.54	0.28	0.32	0.34	2.48	5.90	5.90	0.36	6.5%
SC-150.09	2 hours	4622	6.09	5.78	1.62	5.80	1.79	2.08	1.82	2.59	6.19	6.19	0.39	6.7%
SC-150.10	2 hours	4628	7.42	7.04	1.94	7.04	4.97	4.94	4.71	4.05	7.28	7.28	0.24	3.4%
SC-150.11	15 min	4412	13.21	13.18	0.71	13.24	12.78	13.77	12.65	9.90	9.84	13.77	0.53	4.0%
SC-150.12	15 min	4412	20.60	20.65	1.04	20.68	20.10	21.29	19.68	15.53	13.59	21.29	0.61	3.0%
SC-150.13	15 min	4381	23.76	23.69	1.18	23.88	23.12	23.27	21.58	18.14	16.13	23.27	-0.61	-2.6%
SC-150.14	15 min	4408	34.49	34.81	1.80	35.10	31.84	32.85	31.57	29.26	25.43	32.85	-2.25	-6.4%
SC-150.15	15 min	4408	34.88	35.24	1.80	35.54	32.11	33.12	31.94	29.96	25.89	33.12	-2.43	-6.8%
SC-150.16	15 min	4408	36.47	37.00	1.85	37.40	33.21	34.00	33.27	32.33	27.45	34.00	-3.41	-9.1%
SC-150.17	15 min	4408	37.08	37.68	1.93	38.12	33.60	34.24	33.96	33.74	28.26	34.24	-3.88	-10.2%
SC-151.01	15 min	4415	0.61	0.62	0.07	0.62	0.59	0.62	0.52	0.39	0.38	0.62	0.00	-0.2%
SC-151.02	15 min	4416	0.96	0.98	0.09	0.99	0.91	0.99	0.84	0.63	0.61	0.99	0.00	0.1%
SC-152.01	15 min	4416	0.55	0.55	0.05	0.56	0.51	0.56	0.48	0.36	0.34	0.56	0.00	0.0%
SC-153.01	15 min	4415	0.45	0.45	0.04	0.45	0.43	0.45	0.38	0.29	0.28	0.45	0.00	-0.4%
SC-153.02	15 min	4416	1.08	1.10	0.09	1.11	1.00	1.11	0.94	0.72	0.68	1.11	0.00	0.1%
SC-154.01	15 min	4416	0.82	0.84	0.08	0.85	0.76	0.85	0.74	0.57	0.52	0.85	0.00	0.5%
SC-154.02	15 min	4411	2.83	2.86	0.22	2.87	2.59	2.97	2.60	2.00	1.81	2.97	0.10	3.5%
SC-155.01	15 min	4413	0.31	0.32	0.03	0.32	0.28	0.35	0.29	0.22	0.20	0.35	0.03	8.7%
SC-155.02	15 min	4411	0.88	0.90	0.08	0.92	0.79	0.95	0.83	0.61	0.56	0.95	0.03	3.1%
SC-156.01	15 min	4416	0.34	0.34	0.03	0.34	0.31	0.35	0.29	0.22	0.21	0.35	0.01	1.6%
SC-157.01	15 min	4415	0.40	0.41	0.04	0.41	0.38	0.41	0.35	0.27	0.26	0.41	0.00	-0.4%
SC-158.01	15 min	4415	0.52	0.53	0.06	0.53	0.50	0.53	0.45	0.33	0.33	0.53	0.00	-0.1%
SC-158.02	15 min	4416	0.68	0.70	0.06	0.70	0.64	0.71	0.60	0.45	0.43	0.71	0.01	0.8%
SC-158.03	15 min	4408	1.49	1.52	0.12	1.53	1.36	1.57	1.35	1.00	0.95	1.57	0.04	2.5%
SC-158.04	15 min	4408	2.79	2.86	0.24	2.89	2.57	2.91	2.50	1.87	1.78	2.91	0.02	0.8%
SC-159.01	15 min	4415	0.41	0.42	0.04	0.42	0.40	0.42	0.36	0.27	0.26	0.42	0.00	0.3%
SC-16.01	15 min	4415	0.50	0.51	0.05	0.51	0.48	0.51	0.43	0.32	0.32	0.51	0.00	-0.7%
SC-160.01	15 min	4413	0.40	0.41	0.04	0.41	0.39	0.41	0.34	0.25	0.26	0.41	0.00	0.3%
SC-160.02	15 min	4416	0.92	0.95	0.08	0.96	0.85	0.96	0.82	0.61	0.59	0.96	0.00	0.1%
SC-161.01	15 min	4415	0.49	0.49	0.05	0.49	0.47	0.49	0.42	0.31	0.31	0.49	0.00	0.9%
SC-161.02	15 min	4416	0.95	0.97	0.09	0.97	0.90	0.98	0.83	0.62	0.61	0.98	0.01	0.7%
SC-162.01	15 min	4416	0.58	0.59	0.05	0.59	0.54	0.60	0.51	0.39	0.37	0.60	0.01	1.2%
SC-163.01	15 min	4413	0.34	0.33	0.03	0.34	0.29	0.38	0.34	0.24	0.22	0.38	0.04	11.6%
SC-163.02	15 min	4409	0.65	0.65	0.06	0.67	0.58	0.73	0.64	0.46	0.42	0.73	0.06	8.6%
SC-163.03	15 min	4411	1.07	1.09	0.09	1.12	0.94	1.16	1.02	0.75	0.69	1.16	0.04	3.6%
SC-163.04	15 min	4411	1.48	1.52	0.13	1.54	1.33	1.58	1.39	1.04	0.96	1.58	0.04	2.9%
SC-163.05	15 min	4411	2.57	2.61	0.20	2.62	2.36	2.72	2.38	1.80	1.64	2.72	0.09	3.6%
SC-164.01	15 min	4416	0.51	0.52	0.05	0.52	0.48	0.52	0.44	0.34	0.33	0.52	0.00	0.0%
SC-165.01	15 min	4416	0.43	0.44	0.04	0.44	0.41	0.44	0.38	0.29	0.28	0.44	0.00	1.0%
SC-165.02	15 min	4416	1.12	1.13	0.10	1.14	1.05	1.14	0.97	0.75	0.72	1.14	0.00	0.4%
SC-165.03	15 min	4416	1.47	1.49	0.12	1.50	1.37	1.51	1.28	1.00	0.94	1.51	0.01	0.7%
SC-165.04	15 min	4408	3.15	3.20	0.22	3.20	2.96	3.23	2.82	2.14	2.02	3.23	0.03	1.0%
SC-165.05	15 min	4410	5.31	5.34	0.35	5.42	5.03	5.49	4.75	3.67	3.37	5.49	0.07	1.3%
SC-166.01	15 min	4415	0.40	0.40	0.04	0.40	0.38	0.40	0.34	0.26	0.25	0.40	0.00	0.8%
SC-167.01	15 min	4413	0.58	0.59	0.06	0.59	0.56	0.59	0.49	0.36	0.37	0.59	0.00	0.2%
SC-167.02	15 min	4416	1.50	1.53	0.14	1.56	1.40	1.56	1.32	0.97	0.95	1.56	0.00	0.1%
SC-168.01	15 min	4415	0.47	0.48	0.05	0.48	0.45	0.48	0.41	0.31	0.30	0.48	0.00	0.3%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624			
SC-169.01	15 min	4381	0.44	0.45	0.04	0.45	0.42	0.45	0.38	0.29	0.28	0.45	0.00	-0.6%
SC-169.02	15 min	4408	0.82	0.83	0.07	0.84	0.75	0.85	0.73	0.57	0.53	0.85	0.01	1.3%
SC-169.03	15 min	4416	1.83	1.85	0.16	1.87	1.70	1.88	1.60	1.25	1.17	1.88	0.01	0.4%
SC-17.01	15 min	4415	0.43	0.44	0.05	0.44	0.42	0.44	0.37	0.28	0.28	0.44	0.00	0.4%
SC-17.02	15 min	4416	0.77	0.79	0.07	0.80	0.72	0.80	0.68	0.50	0.49	0.80	0.00	0.1%
SC-17.03	15 min	4408	1.30	1.33	0.11	1.34	1.19	1.36	1.15	0.85	0.82	1.36	0.02	1.2%
SC-17.04	15 min	4411	3.09	3.14	0.26	3.21	2.72	3.33	2.80	2.06	1.96	3.33	0.12	3.7%
SC-17.05	15 min	4411	4.24	4.32	0.33	4.41	3.83	4.59	3.94	2.88	2.70	4.59	0.18	4.0%
SC-17.06	15 min	4411	4.81	4.89	0.35	4.92	4.42	5.12	4.50	3.31	3.04	5.12	0.20	4.1%
SC-17.07	15 min	4410	5.08	5.15	0.31	5.18	4.84	5.35	4.74	3.54	3.26	5.35	0.17	3.3%
SC-170.01	15 min	4416	0.39	0.40	0.04	0.40	0.37	0.40	0.34	0.26	0.25	0.40	0.00	0.4%
SC-171.01	15 min	4415	0.27	0.27	0.03	0.27	0.27	0.27	0.22	0.17	0.17	0.27	0.00	0.9%
SC-172.01	15 min	4415	0.55	0.55	0.06	0.55	0.54	0.55	0.46	0.34	0.35	0.55	0.00	0.1%
SC-172.02	15 min	4415	0.96	0.98	0.10	0.98	0.92	0.98	0.82	0.61	0.62	0.98	0.00	-0.1%
SC-173.01	45 min	4540	0.56	0.53	0.07	0.53	0.35	0.49	0.54	0.59	0.42	0.59	0.06	12.1%
SC-173.02	20 min	4444	1.14	1.11	0.17	1.18	0.97	1.26	1.23	1.16	0.81	1.26	0.08	6.4%
SC-173.03	45 min	4542	1.17	1.10	0.20	1.13	1.03	1.27	1.24	1.22	0.88	1.27	0.14	11.9%
SC-173.04	15 min	4411	2.15	2.19	0.18	2.24	1.91	2.31	2.11	1.84	1.43	2.31	0.07	3.0%
SC-173.05	10 min	4377	2.48	2.43	0.10	2.45	2.42	2.47	2.34	2.09	1.69	2.47	0.02	0.7%
SC-174.01	15 min	4415	0.35	0.35	0.04	0.35	0.34	0.35	0.29	0.22	0.22	0.35	0.00	0.5%
SC-175.01	15 min	4415	0.62	0.63	0.07	0.63	0.60	0.63	0.53	0.40	0.39	0.63	0.00	0.3%
SC-175.02	15 min	4416	1.29	1.32	0.12	1.33	1.19	1.34	1.14	0.84	0.81	1.34	0.01	0.6%
SC-175.03	15 min	4408	2.09	2.14	0.19	2.16	1.91	2.18	1.86	1.38	1.33	2.18	0.02	1.1%
SC-175.04	15 min	4408	2.56	2.60	0.21	2.63	2.37	2.65	2.29	1.76	1.67	2.65	0.02	0.8%
SC-175.05	15 min	4410	2.83	2.87	0.18	2.88	2.75	2.92	2.64	1.97	1.87	2.92	0.04	1.2%
SC-176.01	15 min	4413	0.27	0.27	0.03	0.27	0.24	0.30	0.28	0.22	0.18	0.30	0.03	9.7%
SC-177.01	15 min	4415	0.35	0.35	0.04	0.35	0.34	0.35	0.29	0.22	0.22	0.35	0.00	0.9%
SC-177.02	15 min	4411	0.94	0.96	0.08	0.97	0.83	1.01	0.84	0.62	0.59	1.01	0.04	4.0%
SC-177.03	15 min	4408	2.59	2.64	0.22	2.64	2.35	2.72	2.33	1.73	1.66	2.72	0.08	3.1%
SC-177.04	15 min	4408	3.53	3.59	0.29	3.59	3.22	3.71	3.20	2.37	2.25	3.71	0.12	3.4%
SC-178.01	15 min	4381	0.76	0.77	0.07	0.77	0.72	0.78	0.66	0.50	0.47	0.78	0.01	0.8%
SC-178.02	15 min	4408	1.17	1.20	0.10	1.21	1.07	1.22	1.05	0.78	0.74	1.22	0.01	1.2%
SC-179.01	15 min	4415	0.62	0.63	0.07	0.63	0.60	0.63	0.53	0.39	0.39	0.63	0.00	-0.3%
SC-18.01	15 min	4416	0.49	0.50	0.05	0.50	0.47	0.50	0.42	0.31	0.31	0.50	0.00	0.3%
SC-18.02	15 min	4411	0.79	0.80	0.07	0.81	0.71	0.84	0.69	0.51	0.49	0.84	0.03	3.7%
SC-180.01	15 min	4415	0.60	0.61	0.06	0.61	0.57	0.61	0.52	0.39	0.37	0.61	0.00	0.4%
SC-180.02	15 min	4416	1.04	1.07	0.09	1.09	0.97	1.09	0.95	0.73	0.67	1.09	0.00	0.1%
SC-180.03	15 min	4408	1.48	1.51	0.13	1.53	1.35	1.54	1.34	1.03	0.95	1.54	0.01	0.8%
SC-180.04	15 min	4408	2.13	2.18	0.19	2.20	1.95	2.22	1.91	1.46	1.37	2.22	0.02	1.0%
SC-181.01	20 min	4444	0.26	0.25	0.04	0.27	0.22	0.29	0.28	0.23	0.18	0.29	0.02	7.5%
SC-181.02	15 min	4411	0.88	0.90	0.08	0.92	0.79	0.95	0.84	0.65	0.58	0.95	0.03	3.5%
SC-181.03	15 min	4408	1.44	1.47	0.12	1.48	1.32	1.51	1.32	1.04	0.91	1.51	0.03	2.0%
SC-181.04	15 min	4411	2.65	2.69	0.20	2.72	2.38	2.80	2.50	2.00	1.75	2.80	0.08	3.1%
SC-181.05	15 min	4415	2.84	2.85	0.17	2.86	2.72	2.86	2.70	2.16	1.93	2.86	0.00	0.0%
SC-181.06	10 min	4377	3.16	3.11	0.11	3.12	3.09	3.11	2.96	2.34	2.12	3.11	-0.01	-0.3%
SC-181.07	10 min	4374	7.10	7.06	0.13	7.09	6.99	7.28	6.71	5.16	4.57	7.28	0.19	2.7%
SC-181.08	10 min	4377	7.35	7.31	0.10	7.32	7.30	7.40	6.88	5.31	4.73	7.40	0.08	1.0%
SC-182.01	15 min	4381	0.42	0.43	0.04	0.43	0.40	0.44	0.37	0.28	0.27	0.44	0.01	1.3%
SC-182.02	15 min	4408	0.70	0.72	0.06	0.72	0.64	0.74	0.64	0.48	0.45	0.74	0.02	2.2%
SC-182.03	15 min	4413	1.12	1.14	0.10	1.18	0.98	1.23	1.12	0.89	0.76	1.23	0.05	4.2%
SC-183.01	15 min	4413	0.41	0.42	0.04	0.42	0.37	0.45	0.41	0.32	0.27	0.45	0.03	6.6%
SC-183.02	15 min	4411	0.93	0.96	0.08	0.96	0.85	0.99	0.88	0.67	0.61	0.99	0.03	3.2%
SC-183.03	15 min	4411	2.30	2.32	0.17	2.33	2.14	2.43	2.16	1.64	1.51	2.43	0.10	4.4%
SC-183.04	10 min	4377	2.61	2.58	0.11	2.60	2.55	2.72	2.46	1.87	1.72	2.72	0.12	4.7%
SC-184.01	15 min	4416	0.99	1.01	0.10	1.02	0.92	1.02	0.89	0.67	0.62	1.02	0.00	0.1%
SC-185.01	15 min	4415	0.58	0.59	0.06	0.59	0.56	0.59	0.50	0.37	0.37	0.59	0.00	-0.3%
SC-185.02	15 min	4416	1.31	1.35	0.12	1.36	1.21	1.37	1.16	0.86	0.83	1.37	0.01	0.5%
SC-186.01	15 min	4415	0.21	0.21	0.02	0.21	0.20	0.21	0.17	0.14	0.13	0.21	0.00	-0.9%
SC-187.01	15 min	4415	0.59	0.60	0.06	0.60	0.57	0.60	0.50	0.37	0.37	0.60	0.00	-0.4%
SC-187.02	15 min	4416	1.16	1.19	0.11	1.20	1.08	1.20	1.03	0.77	0.74	1.20	0.00	0.3%
SC-187.03	15 min	4410	1.35	1.37	0.11	1.37	1.31	1.36	1.21	0.91	0.88	1.36	-0.02	-1.1%
SC-187.04	10 min	4372	1.77	1.74	0.07	1.74	1.77	1.66	1.56	1.13	1.12	1.77	0.03	1.5%
SC-187.05	10 min	4372	2.12	2.11	0.04	2.11	2.12	1.86	1.81	1.32	1.30	2.12	0.01	0.5%
SC-188.01	15 min	4413	0.62	0.63	0.07	0.63	0.60	0.63	0.53	0.39	0.39	0.63	0.00	0.1%
SC-188.02	15 min	4413	0.93	0.95	0.09	0.97	0.87	0.97	0.82	0.60	0.59	0.97	0.00	0.4%
SC-189.01	15 min	4415	0.70	0.71	0.08	0.71	0.68	0.71	0.60	0.44	0.44	0.71	0.00	0.0%
SC-189.02	15 min	4381	1.27	1.29	0.12	1.30	1.21	1.30	1.10	0.84	0.82	1.30	0.00	0.0%
SC-19.01	15 min	4413	0.30	0.31	0.03	0.32	0.27	0.33	0.27	0.20	0.19	0.33	0.01	3.7%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	15 min	20 min	60 min	120min		m³/s	%
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624			
SC-190.01	15 min	4415	0.31	0.31	0.03	0.31	0.30	0.31	0.26	0.19	0.20	0.31	0.00	0.6%
SC-191.01	15 min	4415	0.56	0.57	0.06	0.57	0.54	0.57	0.48	0.35	0.36	0.57	0.00	0.2%
SC-191.02	15 min	4416	0.82	0.84	0.08	0.85	0.78	0.86	0.73	0.53	0.53	0.86	0.01	0.9%
SC-191.03	15 min	4408	1.53	1.57	0.13	1.58	1.40	1.61	1.38	1.02	0.98	1.61	0.03	1.7%
SC-191.04	15 min	4408	2.25	2.30	0.19	2.31	2.05	2.36	2.02	1.50	1.44	2.36	0.05	2.0%
SC-191.05	15 min	4411	3.11	3.12	0.23	3.13	2.93	3.26	2.84	2.12	1.99	3.26	0.13	4.1%
SC-191.06	15 min	4410	5.36	5.41	0.38	5.44	4.95	5.58	4.96	3.94	3.51	5.58	0.14	2.6%
SC-191.07	15 min	4411	6.44	6.53	0.43	6.54	6.01	6.81	6.08	4.83	4.26	6.81	0.27	4.2%
SC-191.08	15 min	4415	6.97	6.97	0.36	7.07	6.75	7.07	6.37	5.40	4.78	7.07	0.00	0.0%
SC-192.01	15 min	4416	1.80	1.83	0.16	1.85	1.69	1.86	1.59	1.23	1.17	1.86	0.01	0.5%
SC-193.01	15 min	4413	0.81	0.84	0.08	0.85	0.75	0.85	0.75	0.59	0.53	0.85	0.00	0.3%
SC-194.01	15 min	4413	0.83	0.84	0.08	0.85	0.74	0.92	0.85	0.67	0.57	0.92	0.07	7.8%
SC-194.02	45 min	4542	2.98	2.88	0.45	2.97	2.15	2.92	3.11	3.14	2.18	3.14	0.17	5.7%
SC-194.03	45 min	4542	3.31	3.13	0.50	3.17	2.49	3.07	3.26	3.51	2.47	3.51	0.34	10.7%
SC-195.01	45 min	4542	1.02	0.98	0.15	1.01	0.61	0.90	1.04	1.07	0.76	1.07	0.06	6.2%
SC-196.01	15 min	4411	2.67	2.75	0.24	2.76	2.40	2.85	2.55	2.09	1.78	2.85	0.09	3.1%
SC-197.01	15 min	4413	1.77	1.78	0.17	1.80	1.56	1.97	1.82	1.38	1.19	1.97	0.17	9.4%
SC-198.01	20 min	4436	1.60	1.57	0.20	1.59	0.97	1.53	1.77	1.44	1.08	1.77	0.18	11.6%
SC-2.01	15 min	4413	0.38	0.38	0.04	0.39	0.34	0.43	0.39	0.29	0.25	0.43	0.04	9.0%
SC-20.01	15 min	4415	0.38	0.39	0.04	0.39	0.37	0.39	0.32	0.24	0.24	0.39	0.00	0.3%
SC-200.01	15 min	4416	0.56	0.57	0.05	0.57	0.54	0.58	0.49	0.38	0.36	0.58	0.01	1.0%
SC-200.02	15 min	4416	0.98	0.99	0.09	1.00	0.91	1.00	0.86	0.68	0.63	1.00	0.00	0.2%
SC-200.03	15 min	4408	1.85	1.89	0.15	1.89	1.68	1.94	1.68	1.33	1.21	1.94	0.05	2.5%
SC-200.04	15 min	4411	2.71	2.78	0.24	2.85	2.39	2.95	2.54	1.96	1.76	2.95	0.10	3.4%
SC-200.05	15 min	4411	4.36	4.43	0.32	4.43	3.90	4.61	4.03	3.06	2.84	4.61	0.18	4.1%
SC-200.06	15 min	4410	6.57	6.52	0.68	6.60	6.10	7.42	6.73	4.98	4.36	7.42	0.82	12.5%
SC-200.07	15 min	4410	7.52	7.56	0.92	7.66	7.05	8.66	7.93	5.91	5.14	8.66	1.00	13.1%
SC-200.08	20 min	4434	8.62	8.52	1.11	8.79	7.90	9.76	9.07	6.80	5.97	9.76	0.97	11.1%
SC-200.09	20 min	4434	12.41	12.42	1.49	12.47	11.04	13.25	13.38	9.85	8.80	13.38	0.90	7.3%
SC-201.01	15 min	4415	0.69	0.70	0.07	0.70	0.66	0.70	0.59	0.44	0.43	0.70	0.00	-0.2%
SC-202.01	15 min	4415	0.70	0.70	0.08	0.70	0.68	0.70	0.58	0.43	0.43	0.70	0.00	-0.1%
SC-203.01	15 min	4381	0.71	0.73	0.07	0.73	0.68	0.74	0.63	0.47	0.46	0.74	0.01	2.0%
SC-204.01	15 min	4409	0.95	0.94	0.10	0.98	0.85	1.09	0.94	0.68	0.61	1.09	0.11	11.1%
SC-205.01	20 min	4435	0.37	0.37	0.06	0.39	0.29	0.40	0.42	0.33	0.24	0.42	0.03	6.8%
SC-206.01	20 min	4435	2.78	2.73	0.53	2.84	2.44	3.42	3.13	2.25	1.77	3.42	0.58	20.2%
SC-207.01	15 min	4381	0.68	0.69	0.06	0.69	0.64	0.69	0.58	0.44	0.43	0.69	0.00	0.2%
SC-207.02	15 min	4408	1.34	1.37	0.11	1.38	1.23	1.40	1.19	0.89	0.86	1.40	0.02	1.3%
SC-207.03	15 min	4411	1.47	1.49	0.12	1.51	1.34	1.56	1.35	1.02	0.97	1.56	0.05	3.1%
SC-207.04	15 min	4410	4.07	4.09	0.24	4.20	3.97	4.21	3.77	2.82	2.60	4.21	0.01	0.2%
SC-207.05	10 min	4375	5.48	5.45	0.10	5.45	5.38	5.61	5.11	3.79	3.44	5.61	0.16	2.9%
SC-207.06	10 min	4375	5.98	5.98	0.08	5.99	5.92	5.86	5.48	4.05	3.72	5.92	-0.07	-1.2%
SC-207.07	10 min	4376	9.52	9.59	0.35	9.63	9.44	10.27	9.66	7.42	6.19	10.27	0.64	6.7%
SC-207.08	10 min	4375	14.42	14.42	0.27	14.44	14.15	15.11	14.19	10.95	9.59	15.11	0.67	4.6%
SC-207.09	15 min	4412	16.43	16.38	1.05	16.82	16.11	17.10	16.31	12.65	11.13	17.10	0.28	1.7%
SC-207.10	15 min	4415	17.00	16.98	1.02	17.43	16.52	17.43	16.76	13.16	11.59	17.43	0.00	0.0%
SC-207.11	15 min	4415	18.28	18.14	1.08	18.27	17.53	18.27	17.92	14.25	12.63	18.27	0.00	0.0%
SC-207.12	15 min	4415	26.53	26.64	1.79	27.11	25.22	27.11	25.91	20.47	17.87	27.11	0.00	0.0%
SC-207.13	15 min	4415	27.84	27.87	1.76	28.08	26.21	28.08	27.30	21.83	19.11	28.08	0.00	0.0%
SC-207.14	15 min	4415	28.78	28.62	1.61	28.66	26.86	28.66	28.14	22.92	20.03	28.66	0.00	0.0%
SC-208.01	15 min	4415	0.72	0.71	0.08	0.71	0.70	0.71	0.59	0.44	0.45	0.71	0.00	0.3%
SC-208.02	15 min	4415	1.04	1.05	0.11	1.05	1.00	1.05	0.88	0.66	0.66	1.05	0.00	-0.1%
SC-208.03	15 min	4416	1.40	1.42	0.13	1.42	1.32	1.43	1.21	0.90	0.88	1.43	0.01	0.7%
SC-208.04	15 min	4408	2.17	2.19	0.15	2.20	2.11	2.25	1.96	1.44	1.39	2.25	0.05	2.3%
SC-208.05	10 min	4377	2.52	2.49	0.08	2.50	2.49	2.50	2.27	1.69	1.58	2.50	0.00	-0.1%
SC-209.01	15 min	4415	0.46	0.46	0.05	0.46	0.44	0.46	0.39	0.30	0.29	0.46	0.00	0.8%
SC-21.01	15 min	4415	0.54	0.55	0.06	0.55	0.53	0.55	0.46	0.34	0.35	0.55	0.00	0.3%
SC-210.01	15 min	4415	1.01	1.03	0.10	1.03	0.96	1.03	0.87	0.66	0.63	1.03	0.00	0.1%
SC-210.02	15 min	4416	1.42	1.44	0.13	1.46	1.32	1.47	1.25	0.94	0.89	1.47	0.01	0.4%
SC-211.01	45 min	4542	0.34	0.33	0.05	0.34	0.24	0.33	0.37	0.36	0.25	0.37	0.03	7.4%
SC-211.02	45 min	4536	0.78	0.75	0.11	0.77	0.40	0.60	0.71	0.83	0.59	0.83	0.06	7.8%
SC-211.03	45 min	4542	1.26	1.21	0.18	1.25	0.78	1.13	1.24	1.31	0.95	1.31	0.06	4.8%
SC-211.04	45 min	4542	1.50	1.42	0.21	1.48	1.07	1.42	1.55	1.53	1.13	1.55	0.07	4.7%
SC-212.01	1 hour	4570	0.13	0.13	0.01	0.13	0.07	0.09	0.10	0.12	0.10	0.12	-0.01	-8.1%
SC-212.02	1 hour	4565	0.27	0.27	0.04	0.27	0.19	0.26	0.29	0.27	0.20	0.29	0.02	7.2%
SC-213.01	15 min	4415	0.42	0.42	0.05	0.42	0.41	0.42	0.35	0.26	0.27	0.42	0.00	-0.5%
SC-213.02	15 min	4416	0.71	0.72	0.07	0.73	0.67	0.73	0.61	0.45	0.45	0.73	0.00	0.3%
SC-214.01	15 min	4413	0.51	0.53	0.06	0.53	0.50	0.53	0.44	0.32	0.33	0.53	0.00	-0.5%
SC-214.02	15 min	4415	1.11	1.13	0.12	1.13	1.08	1.13	0.94	0.70	0.71	1.13	0.00	0.0%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624			
SC-215.01	15 min	4416	0.42	0.42	0.04	0.43	0.38	0.43	0.36	0.28	0.27	0.43	0.00	-0.5%
SC-215.02	15 min	4408	0.76	0.78	0.06	0.79	0.70	0.80	0.68	0.51	0.48	0.80	0.01	0.7%
SC-216.01	15 min	4415	0.38	0.38	0.04	0.38	0.38	0.38	0.31	0.23	0.24	0.38	0.00	-0.2%
SC-216.02	15 min	4415	1.18	1.18	0.13	1.18	1.15	1.18	0.98	0.73	0.75	1.18	0.00	0.3%
SC-216.03	15 min	4416	1.89	1.92	0.18	1.92	1.78	1.94	1.62	1.19	1.20	1.94	0.02	0.8%
SC-216.04	10 min	4372	2.62	2.55	0.15	2.56	2.61	2.49	2.29	1.70	1.70	2.61	0.05	1.9%
SC-217.01	15 min	4415	0.27	0.27	0.03	0.27	0.27	0.27	0.22	0.16	0.17	0.27	0.00	0.0%
SC-218.01	15 min	4415	0.21	0.21	0.02	0.21	0.21	0.21	0.17	0.13	0.13	0.21	0.00	-1.6%
SC-219.01	15 min	4415	0.27	0.27	0.03	0.27	0.27	0.27	0.23	0.17	0.17	0.27	0.00	1.3%
SC-22.01	15 min	4413	0.30	0.31	0.03	0.31	0.29	0.31	0.26	0.19	0.19	0.31	0.00	0.6%
SC-220.01	15 min	4415	0.42	0.43	0.05	0.43	0.41	0.43	0.36	0.27	0.27	0.43	0.00	0.6%
SC-221.01	15 min	4413	0.39	0.40	0.04	0.40	0.38	0.40	0.34	0.25	0.25	0.40	0.00	0.4%
SC-221.02	15 min	4408	0.87	0.89	0.07	0.89	0.79	0.92	0.77	0.57	0.55	0.92	0.03	2.8%
SC-221.03	15 min	4408	1.06	1.09	0.09	1.10	0.98	1.11	0.95	0.70	0.68	1.11	0.01	1.2%
SC-221.04	15 min	4408	1.56	1.60	0.13	1.61	1.43	1.63	1.40	1.03	1.00	1.63	0.02	1.5%
SC-221.05	15 min	4411	2.00	2.01	0.15	2.03	1.87	2.11	1.84	1.35	1.28	2.11	0.08	3.8%
SC-221.06	15 min	4410	2.11	2.13	0.15	2.14	2.01	2.20	1.92	1.44	1.35	2.20	0.06	2.8%
SC-222.01	15 min	4415	0.43	0.43	0.04	0.44	0.41	0.44	0.37	0.28	0.27	0.44	-0.01	-1.1%
SC-222.02	15 min	4416	0.69	0.71	0.06	0.72	0.64	0.72	0.62	0.46	0.44	0.72	0.00	0.0%
SC-222.03	15 min	4410	1.50	1.45	0.19	1.46	1.38	1.75	1.50	1.10	1.00	1.75	0.29	20.0%
SC-223.01	15 min	4416	0.18	0.19	0.02	0.19	0.18	0.19	0.16	0.12	0.12	0.19	0.00	-1.5%
SC-224.01	20 min	4435	0.49	0.47	0.08	0.47	0.34	0.53	0.56	0.40	0.32	0.56	0.09	18.3%
SC-225.01	15 min	4381	0.34	0.34	0.03	0.34	0.32	0.35	0.29	0.22	0.21	0.35	0.00	1.5%
SC-226.01	15 min	4415	0.25	0.25	0.03	0.25	0.25	0.25	0.21	0.15	0.16	0.25	0.00	-0.5%
SC-226.02	15 min	4408	0.60	0.61	0.05	0.61	0.55	0.63	0.52	0.38	0.37	0.63	0.02	2.9%
SC-226.03	15 min	4411	1.24	1.26	0.10	1.27	1.11	1.32	1.12	0.82	0.78	1.32	0.04	3.5%
SC-226.04	15 min	4408	1.86	1.89	0.15	1.91	1.69	1.95	1.67	1.24	1.17	1.95	0.04	1.9%
SC-226.05	15 min	4411	7.37	7.45	0.56	7.49	6.65	7.74	6.71	5.08	4.77	7.74	0.25	3.3%
SC-226.06	15 min	4410	8.01	8.09	0.50	8.21	7.51	8.30	7.33	5.57	5.27	8.30	0.09	1.1%
SC-226.07	15 min	4415	8.58	8.55	0.46	8.58	8.28	8.58	7.83	6.02	5.77	8.58	0.00	0.0%
SC-226.08	15 min	4415	8.93	8.89	0.47	8.89	8.71	8.89	8.21	6.30	6.04	8.89	0.00	0.0%
SC-227.01	15 min	4415	0.13	0.13	0.01	0.13	0.13	0.13	0.11	0.08	0.08	0.13	0.00	2.8%
SC-228.01	15 min	4415	0.28	0.28	0.03	0.28	0.27	0.28	0.24	0.18	0.18	0.28	0.00	1.3%
SC-229.01	15 min	4415	0.20	0.20	0.02	0.20	0.19	0.20	0.17	0.13	0.12	0.20	0.00	-0.4%
SC-23.01	15 min	4415	0.40	0.40	0.04	0.40	0.39	0.40	0.34	0.25	0.25	0.40	0.00	1.0%
SC-23.02	15 min	4411	1.20	1.22	0.10	1.24	1.06	1.28	1.07	0.79	0.76	1.28	0.04	3.5%
SC-23.03	15 min	4411	1.49	1.51	0.12	1.52	1.33	1.58	1.34	0.98	0.93	1.58	0.06	4.1%
SC-230.01	15 min	4416	0.19	0.20	0.02	0.20	0.18	0.20	0.17	0.13	0.12	0.20	0.00	-1.0%
SC-231.01	15 min	4416	0.21	0.22	0.02	0.22	0.20	0.22	0.19	0.14	0.13	0.22	0.00	-0.2%
SC-232.01	15 min	4415	0.54	0.55	0.05	0.55	0.52	0.55	0.47	0.36	0.35	0.55	0.00	0.2%
SC-232.02	15 min	4416	0.86	0.88	0.07	0.89	0.80	0.89	0.76	0.57	0.55	0.89	0.00	0.1%
SC-232.03	15 min	4408	2.00	2.04	0.17	2.04	1.81	2.10	1.79	1.33	1.27	2.10	0.06	3.0%
SC-233.01	15 min	4415	0.38	0.38	0.04	0.39	0.36	0.39	0.33	0.24	0.24	0.39	0.00	-1.1%
SC-233.02	15 min	4408	0.63	0.65	0.06	0.66	0.59	0.66	0.56	0.41	0.40	0.66	0.00	0.7%
SC-234.01	15 min	4415	0.54	0.55	0.06	0.55	0.52	0.55	0.47	0.35	0.34	0.55	0.00	0.9%
SC-234.02	15 min	4408	1.08	1.10	0.09	1.11	0.98	1.13	0.96	0.72	0.69	1.13	0.02	1.4%
SC-234.03	15 min	4411	3.16	3.22	0.26	3.26	2.83	3.36	2.93	2.21	2.05	3.36	0.10	3.0%
SC-235.01	15 min	4415	0.20	0.20	0.02	0.20	0.20	0.20	0.16	0.12	0.13	0.20	0.00	-1.3%
SC-236.01	15 min	4415	0.25	0.26	0.03	0.26	0.25	0.26	0.21	0.16	0.16	0.26	0.00	-1.3%
SC-236.02	15 min	4415	0.40	0.40	0.04	0.40	0.38	0.40	0.34	0.25	0.25	0.40	0.00	0.8%
SC-237.01	15 min	4415	0.34	0.35	0.04	0.35	0.33	0.35	0.30	0.23	0.22	0.35	0.00	0.8%
SC-237.02	15 min	4409	0.75	0.75	0.07	0.78	0.66	0.83	0.77	0.59	0.51	0.83	0.05	7.0%
SC-238.01	15 min	4415	0.22	0.23	0.02	0.23	0.22	0.23	0.19	0.14	0.14	0.23	0.00	-1.9%
SC-238.02	15 min	4408	0.53	0.54	0.05	0.55	0.49	0.55	0.46	0.34	0.33	0.55	0.00	-0.1%
SC-239.01	15 min	4415	0.29	0.30	0.03	0.30	0.28	0.30	0.25	0.18	0.19	0.30	0.00	-1.2%
SC-24.01	15 min	4415	0.35	0.35	0.04	0.36	0.34	0.36	0.29	0.22	0.22	0.36	0.00	-1.3%
SC-240.01	20 min	4435	0.67	0.67	0.07	0.69	0.44	0.64	0.72	0.69	0.48	0.72	0.03	3.6%
SC-240.02	20 min	4435	1.00	0.99	0.13	1.05	0.82	1.08	1.09	1.00	0.73	1.09	0.03	3.3%
SC-241.01	20 min	4435	3.15	3.03	0.55	3.05	2.37	3.62	3.57	2.51	2.05	3.62	0.57	18.7%
SC-242.01	15 min	4415	0.41	0.41	0.04	0.41	0.39	0.41	0.35	0.27	0.26	0.41	0.00	0.8%
SC-242.02	15 min	4416	1.06	1.08	0.09	1.09	0.97	1.10	0.93	0.71	0.67	1.10	0.01	0.6%
SC-242.03	15 min	4408	1.58	1.61	0.13	1.62	1.44	1.64	1.39	1.06	1.01	1.64	0.02	1.1%
SC-242.04	15 min	4408	1.68	1.70	0.13	1.72	1.54	1.74	1.48	1.13	1.07	1.74	0.02	1.2%
SC-242.05	15 min	4411	3.68	3.72	0.27	3.73	3.39	3.89	3.34	2.48	2.31	3.89	0.16	4.2%
SC-242.06	15 min	4411	4.80	4.88	0.34	4.89	4.52	5.14	4.49	3.28	3.00	5.14	0.25	5.1%
SC-242.07	15 min	4410	5.13	5.17	0.39	5.24	4.84	5.55	4.85	3.58	3.26	5.55	0.31	6.0%
SC-242.08	15 min	4410	9.26	9.45	1.13	9.65	8.77	10.61	9.72	7.14	6.25	10.61	0.96	10.0%
SC-243.01	15 min	4415	0.38	0.38	0.04	0.38	0.36	0.38	0.32	0.24	0.23	0.38	0.00	0.0%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624			
SC-243.02	15 min	4416	1.41	1.44	0.13	1.46	1.33	1.46	1.24	0.92	0.89	1.46	0.00	-0.1%
SC-244.01	15 min	4415	0.53	0.53	0.06	0.53	0.52	0.53	0.45	0.33	0.34	0.53	0.00	0.9%
SC-245.01	15 min	4415	0.28	0.28	0.03	0.28	0.27	0.28	0.24	0.18	0.18	0.28	0.00	1.4%
SC-246.01	15 min	4416	0.19	0.19	0.02	0.19	0.18	0.19	0.16	0.12	0.12	0.19	0.00	2.2%
SC-246.02	15 min	4410	0.49	0.48	0.07	0.49	0.46	0.58	0.49	0.36	0.32	0.58	0.09	18.6%
SC-247.01	15 min	4411	0.52	0.53	0.05	0.53	0.48	0.56	0.47	0.34	0.33	0.56	0.03	4.9%
SC-247.02	20 min	4435	1.20	1.18	0.21	1.22	1.10	1.48	1.31	0.95	0.79	1.48	0.26	21.6%
SC-248.01	15 min	4414	0.59	0.57	0.09	0.57	0.50	0.72	0.65	0.47	0.38	0.72	0.15	26.6%
SC-249.01	20 min	4435	0.13	0.13	0.01	0.13	0.08	0.12	0.14	0.13	0.10	0.14	0.01	8.5%
SC-249.02	20 min	4444	0.43	0.43	0.07	0.45	0.38	0.49	0.47	0.38	0.30	0.49	0.04	9.2%
SC-249.03	15 min	4409	0.94	0.95	0.09	0.96	0.84	1.04	0.94	0.74	0.62	1.04	0.08	7.8%
SC-249.04	15 min	4411	2.34	2.38	0.19	2.42	2.08	2.51	2.23	1.73	1.51	2.51	0.09	3.7%
SC-249.05	15 min	4409	6.83	6.92	0.56	7.00	6.20	7.43	6.58	4.95	4.39	7.43	0.43	6.1%
SC-249.06	20 min	4434	10.72	10.48	1.44	10.59	10.04	12.09	11.63	8.59	7.46	12.09	1.50	14.1%
SC-25.01	15 min	4415	1.05	1.07	0.12	1.07	1.03	1.07	0.89	0.66	0.67	1.07	0.00	-0.2%
SC-25.02	15 min	4416	1.53	1.56	0.14	1.58	1.43	1.59	1.34	0.98	0.97	1.59	0.01	0.6%
SC-25.03	15 min	4416	1.67	1.70	0.15	1.72	1.57	1.73	1.47	1.09	1.07	1.73	0.01	0.5%
SC-25.04	15 min	4408	2.80	2.88	0.25	2.89	2.56	2.96	2.54	1.87	1.80	2.96	0.07	2.6%
SC-250.01	15 min	4415	0.12	0.13	0.01	0.13	0.12	0.13	0.10	0.08	0.08	0.13	0.00	-3.5%
SC-251.01	15 min	4416	0.30	0.30	0.03	0.30	0.28	0.30	0.26	0.20	0.19	0.30	0.00	1.5%
SC-252.01	15 min	4413	0.34	0.35	0.03	0.36	0.32	0.36	0.32	0.25	0.22	0.36	0.00	0.3%
SC-252.02	15 min	4413	0.64	0.65	0.06	0.66	0.60	0.66	0.58	0.44	0.41	0.66	0.00	0.7%
SC-253.01	15 min	4415	0.50	0.51	0.05	0.51	0.48	0.51	0.43	0.32	0.31	0.51	0.00	-0.3%
SC-253.02	15 min	4416	1.85	1.88	0.16	1.91	1.72	1.91	1.64	1.23	1.17	1.91	0.00	0.1%
SC-253.03	15 min	4416	2.26	2.30	0.20	2.32	2.10	2.33	1.99	1.51	1.45	2.33	0.01	0.6%
SC-254.01	15 min	4416	0.51	0.52	0.05	0.52	0.48	0.52	0.45	0.34	0.32	0.52	0.00	0.2%
SC-255.01	15 min	4411	0.48	0.49	0.05	0.49	0.44	0.51	0.45	0.35	0.31	0.51	0.02	3.8%
SC-256.01	15 min	4413	0.42	0.43	0.04	0.43	0.40	0.44	0.38	0.28	0.27	0.44	0.01	3.1%
SC-257.01	15 min	4413	0.24	0.24	0.02	0.25	0.23	0.25	0.21	0.15	0.15	0.25	0.00	0.2%
SC-258.01	15 min	4413	1.09	1.12	0.11	1.12	1.02	1.16	0.97	0.71	0.69	1.16	0.04	3.5%
SC-258.02	15 min	4412	1.73	1.61	0.25	1.62	1.60	2.09	1.82	1.33	1.14	2.09	0.47	29.0%
SC-259.01	15 min	4415	0.47	0.47	0.05	0.47	0.45	0.47	0.39	0.30	0.29	0.47	0.00	0.3%
SC-259.02	15 min	4416	1.00	1.01	0.08	1.02	0.91	1.03	0.87	0.66	0.63	1.03	0.01	0.9%
SC-259.03	15 min	4408	1.41	1.43	0.12	1.45	1.28	1.46	1.23	0.94	0.88	1.46	0.01	0.5%
SC-259.04	15 min	4416	2.56	2.60	0.21	2.63	2.36	2.64	2.23	1.70	1.62	2.64	0.01	0.3%
SC-259.05	15 min	4408	3.13	3.18	0.25	3.19	2.89	3.24	2.76	2.10	1.96	3.24	0.05	1.7%
SC-259.06	15 min	4408	4.04	4.11	0.31	4.11	3.73	4.16	3.54	2.71	2.52	4.16	0.05	1.2%
SC-259.07	10 min	4372	5.24	5.18	0.18	5.19	5.23	4.56	4.46	3.39	3.28	5.23	0.04	0.8%
SC-259.08	10 min	4372	6.15	6.11	0.16	6.12	6.17	5.54	5.33	3.89	3.79	6.17	0.05	0.8%
SC-259.09	10 min	4372	14.98	14.89	0.31	14.92	15.01	15.10	15.02	11.15	10.55	15.10	0.18	1.2%
SC-259.10	10 min	4372	15.25	15.19	0.29	15.21	15.30	15.37	15.30	11.43	10.78	15.37	0.16	1.0%
SC-26.01	15 min	4416	0.33	0.33	0.03	0.34	0.31	0.34	0.28	0.21	0.21	0.34	0.00	-1.0%
SC-260.01	15 min	4415	0.31	0.31	0.03	0.31	0.30	0.31	0.26	0.20	0.19	0.31	0.00	0.7%
SC-261.01	15 min	4415	0.40	0.40	0.04	0.40	0.38	0.40	0.34	0.26	0.26	0.40	0.00	0.7%
SC-262.01	15 min	4415	0.45	0.45	0.05	0.46	0.43	0.46	0.39	0.29	0.28	0.46	-0.01	-1.1%
SC-262.02	15 min	4416	0.83	0.84	0.08	0.85	0.78	0.85	0.72	0.54	0.53	0.85	0.00	0.0%
SC-263.01	15 min	4415	0.47	0.48	0.05	0.49	0.45	0.49	0.41	0.31	0.30	0.49	0.00	-1.0%
SC-264.01	15 min	4415	0.26	0.27	0.03	0.27	0.26	0.27	0.22	0.16	0.17	0.27	0.00	-1.6%
SC-265.01	15 min	4416	0.34	0.35	0.03	0.35	0.33	0.35	0.31	0.23	0.22	0.35	0.00	1.3%
SC-265.02	15 min	4409	0.85	0.83	0.10	0.84	0.74	0.98	0.91	0.70	0.60	0.98	0.14	16.8%
SC-265.03	20 min	4435	1.43	1.39	0.21	1.39	1.18	1.57	1.56	1.20	1.01	1.57	0.18	12.9%
SC-265.04	15 min	4411	6.86	6.93	0.54	6.98	6.39	7.38	7.09	5.56	4.99	7.38	0.40	5.7%
SC-266.01	15 min	4408	0.44	0.46	0.04	0.46	0.40	0.48	0.44	0.34	0.30	0.48	0.02	4.4%
SC-266.02	15 min	4413	0.86	0.88	0.08	0.90	0.78	0.93	0.84	0.65	0.57	0.93	0.03	2.8%
SC-266.03	15 min	4408	1.04	1.07	0.09	1.08	0.96	1.10	0.97	0.78	0.70	1.10	0.01	1.4%
SC-266.04	15 min	4409	3.97	4.04	0.35	4.14	3.45	4.35	3.92	3.08	2.71	4.35	0.21	5.0%
SC-266.05	15 min	4415	4.50	4.55	0.26	4.65	4.15	4.65	4.42	3.53	3.18	4.65	0.00	0.0%
SC-267.01	15 min	4416	0.42	0.43	0.05	0.43	0.41	0.43	0.37	0.27	0.27	0.43	0.00	0.8%
SC-268.01	15 min	4416	0.71	0.73	0.07	0.73	0.67	0.73	0.63	0.48	0.45	0.73	0.00	0.2%
SC-268.02	15 min	4411	1.88	1.93	0.17	1.94	1.71	2.00	1.80	1.41	1.24	2.00	0.06	3.1%
SC-269.01	15 min	4413	0.31	0.30	0.03	0.31	0.27	0.35	0.33	0.26	0.21	0.35	0.04	13.0%
SC-27.01	15 min	4408	0.35	0.35	0.03	0.35	0.31	0.38	0.34	0.25	0.22	0.38	0.03	8.3%
SC-270.01	20 min	4435	0.34	0.33	0.06	0.35	0.29	0.39	0.38	0.28	0.23	0.39	0.04	12.5%
SC-271.01	20 min	4435	0.21	0.20	0.04	0.22	0.18	0.25	0.23	0.17	0.14	0.25	0.03	12.8%
SC-272.01	20 min	4435	0.49	0.48	0.08	0.52	0.41	0.56	0.55	0.43	0.34	0.56	0.04	6.7%
SC-272.02	20 min	4435	1.03	1.05	0.18	1.09	0.96	1.24	1.13	0.86	0.71	1.24	0.15	13.8%
SC-272.03	20 min	4435	1.69	1.74	0.29	1.77	1.60	2.06	1.83	1.35	1.16	2.06	0.29	16.3%
SC-273.01	15 min	4412	0.48	0.45	0.08	0.46	0.46	0.58	0.49	0.36	0.31	0.58	0.12	27.0%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min			
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624		m ³ /s	%
SC-274.01	45 min	4536	0.23	0.22	0.03	0.22	0.18	0.23	0.24	0.24	0.17	0.24	0.02	9.1%
SC-274.02	15 min	4411	1.02	1.04	0.09	1.07	0.90	1.10	0.97	0.78	0.68	1.10	0.03	3.2%
SC-274.03	15 min	4408	2.44	2.51	0.21	2.53	2.24	2.57	2.23	1.70	1.55	2.57	0.04	1.5%
SC-274.04	15 min	4408	3.16	3.24	0.27	3.27	2.90	3.31	2.87	2.19	2.01	3.31	0.04	1.2%
SC-274.05	15 min	4409	4.08	4.15	0.37	4.19	3.65	4.48	3.83	2.89	2.68	4.48	0.29	7.0%
SC-275.01	15 min	4415	0.46	0.47	0.05	0.47	0.44	0.47	0.40	0.30	0.29	0.47	0.00	-0.1%
SC-276.01	15 min	4415	0.33	0.34	0.04	0.34	0.33	0.34	0.28	0.21	0.21	0.34	0.00	-0.2%
SC-277.01	15 min	4413	0.43	0.44	0.04	0.44	0.40	0.46	0.38	0.28	0.27	0.46	0.02	3.7%
SC-278.01	15 min	4415	0.26	0.26	0.03	0.26	0.25	0.26	0.22	0.16	0.16	0.26	0.00	1.0%
SC-278.02	20 min	4435	3.16	3.12	0.59	3.20	2.89	3.94	3.49	2.53	2.01	3.94	0.74	23.1%
SC-279.01	15 min	4409	0.45	0.44	0.05	0.45	0.40	0.53	0.47	0.34	0.30	0.53	0.08	16.9%
SC-279.02	20 min	4435	3.04	3.03	0.52	3.09	2.90	3.78	3.26	2.37	2.03	3.78	0.69	22.4%
SC-28.01	20 min	4436	0.28	0.27	0.04	0.28	0.17	0.27	0.31	0.25	0.19	0.31	0.03	10.3%
SC-28.02	20 min	4435	0.65	0.64	0.11	0.69	0.57	0.75	0.72	0.56	0.45	0.75	0.06	8.5%
SC-28.03	15 min	4409	0.93	0.91	0.10	0.94	0.83	1.07	1.00	0.77	0.64	1.07	0.13	13.9%
SC-28.04	15 min	4409	2.04	2.07	0.19	2.15	1.80	2.25	1.99	1.50	1.34	2.25	0.10	4.7%
SC-280.01	15 min	4408	0.43	0.44	0.04	0.44	0.39	0.47	0.42	0.31	0.28	0.47	0.03	7.0%
SC-29.01	15 min	4415	0.32	0.33	0.03	0.33	0.31	0.33	0.27	0.20	0.21	0.33	0.00	0.0%
SC-29.02	15 min	4408	0.91	0.93	0.08	0.94	0.84	0.95	0.80	0.59	0.58	0.95	0.01	1.1%
SC-3.01	15 min	4413	0.39	0.39	0.04	0.40	0.34	0.44	0.41	0.30	0.26	0.44	0.04	10.9%
SC-3.02	15 min	4409	1.26	1.22	0.13	1.26	1.11	1.45	1.36	1.02	0.86	1.45	0.19	14.8%
SC-30.01	15 min	4415	0.57	0.58	0.06	0.58	0.56	0.58	0.49	0.36	0.37	0.58	0.00	0.6%
SC-30.02	15 min	4408	1.06	1.09	0.09	1.09	0.97	1.12	0.94	0.69	0.67	1.12	0.03	2.9%
SC-30.03	15 min	4408	1.47	1.50	0.12	1.51	1.34	1.55	1.32	0.97	0.93	1.55	0.04	2.7%
SC-30.04	15 min	4408	1.88	1.92	0.16	1.93	1.71	1.97	1.69	1.24	1.20	1.97	0.04	2.3%
SC-31.01	15 min	4413	0.40	0.41	0.04	0.41	0.35	0.44	0.37	0.27	0.25	0.44	0.03	7.4%
SC-31.02	15 min	4409	0.83	0.84	0.08	0.87	0.74	0.92	0.79	0.58	0.54	0.92	0.05	6.0%
SC-32.01	20 min	4435	0.34	0.33	0.06	0.34	0.28	0.41	0.39	0.28	0.22	0.41	0.07	19.7%
SC-32.02	20 min	4436	0.49	0.48	0.08	0.48	0.36	0.53	0.56	0.40	0.32	0.56	0.08	16.1%
SC-33.01	15 min	4413	0.48	0.49	0.05	0.49	0.47	0.49	0.41	0.30	0.31	0.49	0.00	0.8%
SC-33.02	15 min	4416	1.13	1.16	0.10	1.17	1.04	1.18	1.01	0.74	0.72	1.18	0.01	0.4%
SC-34.01	15 min	4408	0.39	0.40	0.03	0.40	0.35	0.41	0.34	0.25	0.24	0.41	0.01	2.8%
SC-34.02	15 min	4413	0.79	0.81	0.07	0.82	0.71	0.86	0.71	0.53	0.49	0.86	0.04	4.7%
SC-34.03	15 min	4411	0.92	0.94	0.09	0.96	0.86	0.98	0.86	0.63	0.60	0.98	0.02	2.1%
SC-35.01	15 min	4415	0.35	0.34	0.04	0.34	0.34	0.34	0.28	0.21	0.22	0.34	0.00	0.6%
SC-35.02	15 min	4415	0.98	0.99	0.09	0.99	0.93	0.99	0.82	0.61	0.62	0.99	0.00	-0.1%
SC-35.03	15 min	4415	1.56	1.58	0.14	1.58	1.49	1.58	1.30	0.96	0.99	1.58	0.00	0.1%
SC-35.04	15 min	4415	1.68	1.69	0.15	1.69	1.60	1.69	1.40	1.04	1.06	1.69	0.00	0.2%
SC-36.01	15 min	4413	0.74	0.75	0.08	0.75	0.71	0.75	0.64	0.48	0.47	0.75	0.00	0.6%
SC-36.02	15 min	4413	1.33	1.36	0.14	1.36	1.28	1.36	1.15	0.85	0.85	1.36	0.00	0.2%
SC-37.01	15 min	4416	0.29	0.29	0.03	0.29	0.28	0.29	0.24	0.18	0.18	0.29	0.00	1.3%
SC-37.02	15 min	4413	0.81	0.83	0.08	0.84	0.76	0.85	0.71	0.52	0.51	0.85	0.01	0.8%
SC-38.01	15 min	4381	0.33	0.34	0.03	0.34	0.32	0.35	0.29	0.21	0.21	0.35	0.01	2.0%
SC-39.01	15 min	4416	0.19	0.20	0.02	0.20	0.19	0.20	0.17	0.12	0.12	0.20	0.00	-1.2%
SC-4.01	20 min	4435	0.43	0.42	0.08	0.44	0.35	0.49	0.48	0.36	0.28	0.49	0.05	10.9%
SC-40.01	15 min	4415	0.44	0.44	0.05	0.44	0.43	0.44	0.37	0.27	0.27	0.44	0.00	0.5%
SC-41.01	15 min	4415	0.29	0.29	0.03	0.29	0.29	0.29	0.24	0.18	0.18	0.29	0.00	-0.8%
SC-42.01	15 min	4415	0.99	0.98	0.11	0.98	0.96	0.98	0.82	0.61	0.61	0.98	0.00	0.4%
SC-43.01	15 min	4410	0.21	0.21	0.03	0.21	0.21	0.21	0.17	0.13	0.13	0.21	0.00	1.1%
SC-44.01	15 min	4415	0.68	0.70	0.07	0.70	0.66	0.70	0.59	0.44	0.43	0.70	0.00	-0.4%
SC-44.02	15 min	4416	1.12	1.14	0.10	1.16	1.04	1.17	0.99	0.73	0.70	1.17	0.01	0.4%
SC-44.03	15 min	4408	1.53	1.57	0.13	1.58	1.40	1.60	1.37	1.01	0.97	1.60	0.02	1.3%
SC-44.04	15 min	4411	2.33	2.38	0.20	2.40	2.10	2.48	2.12	1.56	1.49	2.48	0.08	3.2%
SC-44.05	15 min	4408	4.05	4.08	0.30	4.08	3.76	4.25	3.74	2.73	2.62	4.25	0.17	4.2%
SC-44.06	15 min	4410	4.29	4.32	0.28	4.35	4.07	4.48	3.96	2.96	2.80	4.48	0.13	3.1%
SC-44.07	15 min	4412	4.39	4.48	0.50	4.49	4.04	4.83	4.57	3.41	2.43	4.83	0.34	7.5%
SC-44.08	15 min	4412	5.43	5.51	0.51	5.53	4.84	5.81	5.91	4.27	3.12	5.91	0.38	6.9%
SC-44.09	15 min	4412	5.77	5.88	0.47	5.94	4.97	5.99	6.16	4.72	3.50	6.16	0.22	3.7%
SC-44.10	1 hour	4729	0.74	0.74	0.01	0.74	0.64	0.65	0.66	0.70	0.71	0.71	-0.03	-3.4%
SC-44.11	1 hour	4565	7.57	7.47	1.74	7.79	1.17	1.42	1.87	7.79	5.22	7.79	0.00	-0.1%
SC-44.12	45 min	4831	0.19	0.19	0.00	0.19	0.00	0.00	0.00	0.00	0.17	0.17	-0.02	-12.6%
SC-44.13	45 min	4870	0.21	0.21	0.01	0.21	0.04	0.10	0.15	0.22	0.20	0.22	0.01	3.2%
SC-44.14	45 min	4873	0.95	0.96	0.04	0.96	0.08	0.28	0.45	1.01	1.06	1.06	0.10	10.6%
SC-44.15	45 min	4828	2.18	2.18	0.03	2.18	2.13	2.16	2.18	2.21	2.10	2.21	0.03	1.5%
SC-44.16	45 min	4828	2.26	2.25	0.03	2.25	2.17	2.23	2.25	2.29	2.14	2.29	0.04	1.8%
SC-44.17	20 min	4434	6.33	6.25	0.55	6.27	6.01	6.79	6.69	5.70	4.50	6.79	0.52	8.3%
SC-44.18	20 min	4436	6.55	6.58	0.49	6.60	6.07	6.88	6.81	6.02	4.77	6.88	0.28	4.2%
SC-44.19	20 min	4440	7.21	7.27	0.50	7.30	6.75	7.22	7.47	6.63	5.40	7.47	0.17	2.3%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min			
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624		m ³ /s	%
SC-44.20	20 min	4440	7.17	7.19	0.37	7.21	6.19	7.08	7.33	6.91	5.49	7.33	0.12	1.7%
SC-45.01	15 min	4411	0.51	0.52	0.05	0.53	0.48	0.55	0.48	0.35	0.33	0.55	0.02	2.9%
SC-46.01	15 min	4416	0.41	0.42	0.04	0.43	0.40	0.43	0.36	0.27	0.27	0.43	0.00	-0.6%
SC-46.02	15 min	4408	0.72	0.74	0.06	0.74	0.66	0.77	0.65	0.48	0.46	0.77	0.03	3.7%
SC-46.03	15 min	4408	1.08	1.11	0.09	1.11	0.99	1.14	0.98	0.72	0.69	1.14	0.03	3.0%
SC-46.04	15 min	4408	1.23	1.26	0.10	1.26	1.12	1.29	1.11	0.82	0.78	1.29	0.03	2.7%
SC-47.01	15 min	4415	0.67	0.68	0.07	0.68	0.64	0.68	0.58	0.44	0.42	0.68	0.00	0.6%
SC-48.01	15 min	4415	0.51	0.52	0.05	0.52	0.49	0.52	0.44	0.32	0.32	0.52	0.00	-0.7%
SC-48.02	15 min	4408	0.82	0.84	0.07	0.84	0.75	0.86	0.73	0.53	0.51	0.86	0.02	2.8%
SC-49.01	15 min	4415	0.57	0.58	0.06	0.58	0.56	0.58	0.48	0.36	0.37	0.58	0.00	0.3%
SC-5.01	15 min	4411	0.36	0.37	0.04	0.37	0.33	0.39	0.33	0.24	0.23	0.39	0.02	5.3%
SC-50.01	15 min	4409	0.21	0.21	0.02	0.21	0.19	0.23	0.19	0.14	0.13	0.23	0.02	8.2%
SC-51.01	15 min	4416	0.20	0.21	0.02	0.21	0.19	0.21	0.17	0.13	0.13	0.21	0.00	0.0%
SC-52.01	15 min	4415	0.20	0.21	0.02	0.21	0.20	0.21	0.17	0.13	0.13	0.21	0.00	-1.0%
SC-53.01	15 min	4413	0.49	0.50	0.05	0.50	0.47	0.50	0.42	0.31	0.31	0.50	0.00	0.2%
SC-53.02	15 min	4411	1.03	1.05	0.09	1.06	0.92	1.10	0.93	0.68	0.65	1.10	0.04	4.0%
SC-53.03	15 min	4408	1.24	1.27	0.11	1.28	1.14	1.31	1.12	0.83	0.79	1.31	0.03	2.3%
SC-54.01	15 min	4413	0.40	0.41	0.04	0.41	0.39	0.41	0.34	0.25	0.26	0.41	0.00	-0.4%
SC-54.02	15 min	4411	0.79	0.80	0.07	0.81	0.70	0.84	0.70	0.52	0.49	0.84	0.03	4.0%
SC-55.01	15 min	4413	0.62	0.63	0.07	0.63	0.60	0.63	0.53	0.39	0.40	0.63	0.00	0.3%
SC-56.01	15 min	4411	0.30	0.30	0.03	0.31	0.27	0.32	0.26	0.19	0.19	0.32	0.01	3.0%
SC-57.01	15 min	4409	0.22	0.21	0.02	0.21	0.20	0.25	0.21	0.15	0.14	0.25	0.04	18.4%
SC-58.01	15 min	4415	0.40	0.41	0.04	0.41	0.38	0.41	0.35	0.26	0.25	0.41	0.00	-0.2%
SC-59.01	15 min	4416	0.54	0.56	0.05	0.56	0.51	0.56	0.49	0.37	0.34	0.56	0.00	0.6%
SC-59.02	15 min	4411	1.06	1.08	0.09	1.09	0.94	1.13	0.96	0.72	0.67	1.13	0.04	3.4%
SC-59.03	15 min	4411	1.53	1.56	0.13	1.58	1.37	1.64	1.39	1.03	0.98	1.64	0.06	3.5%
SC-59.04	15 min	4411	1.97	2.01	0.17	2.03	1.76	2.10	1.79	1.33	1.25	2.10	0.07	3.2%
SC-59.05	15 min	4411	4.21	4.30	0.34	4.38	3.73	4.55	4.03	2.95	2.76	4.55	0.17	3.8%
SC-59.06	15 min	4410	4.79	4.83	0.36	4.85	4.43	5.24	4.75	3.44	3.16	5.24	0.39	8.0%
SC-59.07	15 min	4410	8.21	8.26	0.68	8.27	7.46	9.04	8.15	6.02	5.40	9.04	0.77	9.3%
SC-59.08	20 min	4434	7.84	7.75	0.94	7.79	6.99	8.71	8.34	6.42	5.66	8.71	0.92	11.8%
SC-59.09	20 min	4440	9.32	9.35	0.99	9.58	7.27	9.65	9.91	7.83	6.89	9.91	0.33	3.4%
SC-59.10	1 hour	4565	7.66	8.01	1.62	8.04	0.78	3.41	5.64	8.04	5.42	8.04	0.00	0.0%
SC-6.01	15 min	4415	0.46	0.46	0.05	0.46	0.45	0.46	0.38	0.28	0.29	0.46	0.00	-0.2%
SC-60.01	15 min	4409	0.36	0.35	0.04	0.36	0.32	0.42	0.39	0.28	0.24	0.42	0.06	17.7%
SC-60.02	15 min	4413	1.51	1.51	0.15	1.56	1.33	1.69	1.49	1.08	0.97	1.69	0.13	8.3%
SC-61.01	15 min	4413	0.79	0.80	0.08	0.81	0.69	0.88	0.76	0.55	0.50	0.88	0.07	8.8%
SC-62.01	15 min	4413	0.48	0.49	0.05	0.49	0.46	0.49	0.41	0.30	0.31	0.49	0.00	0.8%
SC-63.01	15 min	4409	0.27	0.26	0.03	0.26	0.25	0.32	0.28	0.20	0.18	0.32	0.06	22.7%
SC-64.01	15 min	4415	0.36	0.36	0.04	0.36	0.34	0.36	0.31	0.23	0.22	0.36	0.00	1.0%
SC-64.02	15 min	4411	1.24	1.27	0.11	1.30	1.09	1.34	1.16	0.85	0.80	1.34	0.04	3.1%
SC-64.03	15 min	4411	2.32	2.36	0.19	2.40	2.06	2.48	2.15	1.59	1.49	2.48	0.08	3.3%
SC-64.04	15 min	4409	3.26	3.32	0.28	3.37	2.86	3.56	3.16	2.35	2.16	3.56	0.19	5.7%
SC-65.01	15 min	4416	0.28	0.28	0.03	0.28	0.26	0.29	0.24	0.18	0.17	0.29	0.01	2.1%
SC-66.01	15 min	4413	0.23	0.24	0.02	0.24	0.21	0.26	0.21	0.16	0.15	0.26	0.02	6.4%
SC-66.02	20 min	4435	0.52	0.52	0.10	0.54	0.46	0.62	0.58	0.42	0.35	0.62	0.08	15.4%
SC-67.01	15 min	4415	0.40	0.41	0.04	0.41	0.39	0.41	0.34	0.25	0.26	0.41	0.00	-0.7%
SC-68.01	15 min	4413	0.55	0.56	0.06	0.56	0.53	0.56	0.47	0.35	0.35	0.56	0.00	0.5%
SC-68.02	15 min	4408	1.08	1.10	0.09	1.10	0.98	1.14	0.95	0.70	0.67	1.14	0.04	3.5%
SC-68.03	15 min	4416	1.93	1.97	0.18	1.99	1.81	2.01	1.69	1.24	1.23	2.01	0.02	0.8%
SC-69.01	15 min	4415	0.47	0.46	0.05	0.47	0.46	0.47	0.38	0.28	0.30	0.47	0.00	-0.6%
SC-7.01	15 min	4411	0.62	0.64	0.06	0.64	0.58	0.66	0.58	0.44	0.40	0.66	0.02	3.5%
SC-70.01	15 min	4415	0.44	0.45	0.04	0.45	0.42	0.45	0.37	0.27	0.28	0.45	0.00	-0.3%
SC-70.02	15 min	4408	0.71	0.73	0.06	0.74	0.66	0.75	0.62	0.46	0.45	0.75	0.01	1.3%
SC-71.01	15 min	4413	0.55	0.56	0.06	0.56	0.53	0.56	0.47	0.35	0.35	0.56	0.00	0.0%
SC-71.02	15 min	4411	1.08	1.10	0.09	1.11	0.98	1.15	0.97	0.71	0.68	1.15	0.04	3.2%
SC-72.01	15 min	4415	0.59	0.60	0.06	0.60	0.57	0.60	0.50	0.37	0.38	0.60	0.00	-0.1%
SC-73.01	15 min	4416	0.48	0.49	0.05	0.49	0.46	0.49	0.42	0.31	0.31	0.49	0.00	0.8%
SC-74.01	15 min	4415	0.55	0.56	0.06	0.56	0.53	0.56	0.47	0.35	0.35	0.56	0.00	0.0%
SC-75.01	15 min	4413	0.34	0.34	0.03	0.35	0.30	0.38	0.32	0.24	0.21	0.38	0.03	8.9%
SC-75.02	15 min	4409	1.33	1.30	0.15	1.32	1.19	1.53	1.35	0.98	0.88	1.53	0.21	16.2%
SC-75.03	15 min	4413	1.95	1.96	0.18	2.02	1.73	2.18	1.94	1.41	1.26	2.18	0.16	7.8%
SC-75.04	15 min	4409	3.41	3.47	0.30	3.59	3.00	3.72	3.26	2.39	2.19	3.72	0.13	3.7%
SC-76.01	15 min	4409	0.43	0.40	0.06	0.40	0.39	0.52	0.46	0.34	0.29	0.52	0.12	29.6%
SC-77.01	15 min	4415	0.65	0.66	0.07	0.66	0.63	0.66	0.56	0.41	0.41	0.66	0.00	0.1%
SC-77.02	15 min	4415	0.98	1.00	0.11	1.00	0.95	1.00	0.83	0.62	0.63	1.00	0.00	-0.2%
SC-77.03	15 min	4413	1.40	1.44	0.13	1.46	1.31	1.46	1.23	0.90	0.89	1.46	0.00	0.3%
SC-78.01	15 min	4415	0.61	0.62	0.07	0.62	0.59	0.62	0.52	0.39	0.39	0.62	0.00	0.6%

ARR2019 Results for 5%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120min			
			Average	Median	Standard Dev	Adopted	4378	4415	4439	4565	4624		m ³ /s	%
SC-79.01	15 min	4415	0.67	0.68	0.06	0.69	0.64	0.69	0.59	0.46	0.43	0.69	0.00	-0.6%
SC-79.02	15 min	4416	1.26	1.27	0.11	1.27	1.18	1.28	1.08	0.85	0.80	1.28	0.01	0.9%
SC-79.03	15 min	4408	2.75	2.78	0.21	2.79	2.53	2.88	2.44	1.83	1.75	2.88	0.09	3.1%
SC-8.01	15 min	4411	0.53	0.54	0.05	0.54	0.49	0.56	0.49	0.36	0.34	0.56	0.02	4.1%
SC-8.02	15 min	4411	1.30	1.33	0.11	1.35	1.16	1.40	1.21	0.89	0.83	1.40	0.05	3.6%
SC-8.03	15 min	4411	3.33	3.40	0.28	3.43	2.98	3.54	3.08	2.28	2.15	3.54	0.11	3.2%
SC-8.04	15 min	4408	5.88	6.01	0.49	6.02	5.34	6.18	5.37	4.01	3.74	6.18	0.16	2.7%
SC-8.05	15 min	4408	6.40	6.50	0.48	6.56	5.97	6.60	5.77	4.43	4.15	6.60	0.04	0.6%
SC-8.06	15 min	4415	6.60	6.65	0.46	6.67	6.32	6.67	6.00	4.62	4.34	6.67	0.00	-0.1%
SC-80.01	15 min	4413	0.64	0.65	0.07	0.65	0.62	0.65	0.54	0.40	0.41	0.65	0.00	0.6%
SC-80.02	15 min	4408	1.31	1.34	0.11	1.34	1.20	1.38	1.16	0.85	0.82	1.38	0.04	3.2%
SC-81.01	15 min	4408	0.49	0.50	0.05	0.50	0.45	0.53	0.45	0.33	0.31	0.53	0.03	5.7%
SC-81.02	15 min	4411	1.44	1.48	0.13	1.48	1.32	1.54	1.30	0.96	0.91	1.54	0.06	3.9%
SC-82.01	15 min	4416	0.57	0.58	0.06	0.59	0.55	0.59	0.49	0.36	0.36	0.59	0.00	-0.5%
SC-83.01	15 min	4416	0.36	0.37	0.04	0.37	0.35	0.37	0.31	0.23	0.23	0.37	0.00	0.2%
SC-84.01	15 min	4381	0.54	0.55	0.06	0.55	0.52	0.57	0.48	0.35	0.35	0.57	0.02	2.9%
SC-84.02	15 min	4413	1.33	1.37	0.14	1.38	1.26	1.39	1.19	0.87	0.86	1.39	0.01	0.9%
SC-84.03	15 min	4413	1.77	1.83	0.17	1.84	1.64	1.86	1.58	1.16	1.13	1.86	0.02	1.1%
SC-84.04	15 min	4408	2.10	2.17	0.20	2.19	1.94	2.22	1.88	1.38	1.34	2.22	0.03	1.3%
SC-84.05	15 min	4408	2.47	2.52	0.19	2.54	2.36	2.56	2.27	1.66	1.61	2.56	0.02	0.7%
SC-84.06	10 min	4378	2.71	2.66	0.13	2.66	2.66	2.75	2.52	1.85	1.77	2.75	0.09	3.3%
SC-85.01	15 min	4415	0.34	0.34	0.04	0.34	0.33	0.34	0.28	0.21	0.21	0.34	0.00	0.6%
SC-86.01	15 min	4415	0.51	0.51	0.05	0.52	0.49	0.52	0.44	0.33	0.32	0.52	0.00	-0.9%
SC-86.02	15 min	4416	0.99	1.02	0.10	1.02	0.95	1.02	0.90	0.72	0.65	1.02	0.00	0.4%
SC-87.01	15 min	4415	0.74	0.75	0.08	0.75	0.72	0.75	0.63	0.47	0.47	0.75	0.00	0.2%
SC-87.02	15 min	4416	1.28	1.31	0.12	1.32	1.21	1.32	1.13	0.84	0.82	1.32	0.00	0.2%
SC-88.01	15 min	4416	0.33	0.34	0.04	0.34	0.32	0.34	0.29	0.22	0.21	0.34	0.00	1.0%
SC-88.02	15 min	4413	0.55	0.57	0.05	0.58	0.51	0.58	0.52	0.41	0.37	0.58	0.00	-0.1%
SC-89.01	15 min	4415	0.36	0.37	0.04	0.37	0.35	0.37	0.31	0.24	0.23	0.37	0.00	0.1%
SC-89.02	15 min	4416	0.41	0.41	0.04	0.42	0.38	0.42	0.36	0.27	0.26	0.42	0.00	0.4%
SC-9.01	15 min	4413	0.48	0.49	0.05	0.49	0.46	0.49	0.41	0.31	0.31	0.49	0.00	0.2%
SC-90.01	15 min	4416	0.15	0.15	0.01	0.15	0.14	0.15	0.13	0.10	0.09	0.15	0.00	1.3%
SC-91.01	15 min	4415	0.43	0.42	0.05	0.42	0.42	0.42	0.35	0.26	0.27	0.42	0.00	0.7%
SC-91.02	15 min	4416	0.91	0.92	0.09	0.92	0.86	0.93	0.77	0.57	0.57	0.93	0.01	1.0%
SC-92.01	15 min	4411	0.44	0.45	0.04	0.45	0.41	0.46	0.40	0.29	0.28	0.46	0.01	3.1%
SC-92.02	15 min	4411	1.25	1.28	0.11	1.31	1.11	1.35	1.19	0.88	0.81	1.35	0.04	3.0%
SC-93.01	15 min	4416	0.47	0.48	0.05	0.48	0.45	0.48	0.41	0.30	0.30	0.48	0.00	0.9%
SC-94.01	15 min	4415	0.51	0.51	0.06	0.51	0.50	0.51	0.42	0.31	0.33	0.51	0.00	0.5%
SC-94.02	15 min	4416	1.23	1.24	0.11	1.25	1.15	1.26	1.06	0.78	0.77	1.26	0.01	1.0%
SC-95.01	15 min	4415	0.30	0.30	0.03	0.30	0.30	0.30	0.25	0.18	0.19	0.30	0.00	-0.3%
SC-95.02	15 min	4415	0.74	0.75	0.08	0.75	0.72	0.75	0.62	0.46	0.47	0.75	0.00	-0.2%
SC-96.01	15 min	4415	0.34	0.34	0.04	0.34	0.33	0.34	0.28	0.21	0.22	0.34	0.00	-0.9%
SC-97.01	15 min	4415	0.23	0.22	0.03	0.22	0.22	0.22	0.19	0.14	0.14	0.22	0.00	2.2%
SC-97.02	15 min	4408	1.37	1.38	0.11	1.39	1.24	1.43	1.22	0.92	0.86	1.43	0.04	2.5%
SC-98.01	15 min	4415	0.40	0.41	0.04	0.41	0.38	0.41	0.35	0.26	0.25	0.41	0.00	-0.5%
SC-99.01	15 min	4415	0.39	0.39	0.04	0.39	0.38	0.39	0.33	0.24	0.25	0.39	0.00	0.6%
SC-99.02	15 min	4411	1.08	1.10	0.09	1.12	0.95	1.16	0.96	0.71	0.68	1.16	0.04	3.5%
SC-99.03	15 min	4411	1.87	1.90	0.15	1.94	1.65	2.01	1.69	1.24	1.18	2.01	0.07	3.7%
SC-99.04	15 min	4411	4.95	5.02	0.39	5.04	4.51	5.21	4.51	3.34	3.19	5.21	0.17	3.3%
Dummy1	15 min	4412	23.82	23.82	1.55	24.09	23.07	25.20	24.48	18.54	16.41	25.20	1.11	4.6%
Dummy2	25 min	4468	39.20	39.41	2.36	39.59	30.24	33.70	34.17	39.18	29.50	39.18	-0.41	-1.0%
Dummy3	30 min	4513	75.89	75.74	3.69	76.54	58.62	70.76	71.35	77.46	62.78	77.46	0.92	1.2%
DummyOut	1 hour	4565	82.26	82.29	4.61	82.88	59.04	71.11	71.82	82.88	75.23	82.88	0.00	0.0%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min			
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499		m ³ /s	%
SC-1.01	10 min	4363	0.79	0.80	0.06	0.80	0.84	0.71	0.77	0.49	0.45	0.84	0.04	4.7%
SC-1.02	10 min	4365	1.70	1.73	0.12	1.75	1.80	1.58	1.67	1.08	0.99	1.80	0.05	2.6%
SC-1.03	10 min	4363	2.02	2.06	0.16	2.07	2.16	1.83	2.00	1.31	1.16	2.16	0.09	4.2%
SC-1.04	10 min	4354	5.37	5.39	0.35	5.47	5.47	5.13	5.07	3.41	3.20	5.47	0.00	0.1%
SC-1.05	10 min	4361	5.76	5.80	0.37	5.80	5.96	5.47	5.49	3.71	3.50	5.96	0.16	2.7%
SC-1.06	10 min	4361	6.63	6.68	0.37	6.72	6.78	6.34	6.17	4.28	4.06	6.78	0.06	0.8%
SC-1.07	10 min	4365	6.73	6.78	0.36	6.81	6.94	6.40	6.30	4.38	4.16	6.94	0.13	1.9%
SC-1.08	45 min	4528	6.96	6.99	0.69	7.12	2.48	4.46	5.51	6.19	7.20	7.20	0.08	1.1%
SC-1.09	1 hour	4405	7.46	7.29	0.81	7.35	3.45	4.59	5.64	7.01	8.14	8.14	0.79	10.7%
SC-1.10	1 hour	4405	7.56	7.41	0.80	7.44	3.88	4.60	5.64	7.15	8.26	8.26	0.82	11.0%
SC-1.11	10 min	4354	11.92	11.73	0.54	11.84	11.84	11.57	10.72	9.88	11.02	11.84	0.00	0.0%
SC-1.12	10 min	4354	14.84	14.64	0.58	14.74	14.74	14.47	13.20	11.00	12.19	14.74	0.00	0.0%
SC-1.13	10 min	4361	16.72	16.69	0.32	16.74	16.78	16.65	14.81	11.87	13.58	16.78	0.04	0.2%
SC-1.14	10 min	4354	19.92	19.86	0.32	19.88	19.88	20.04	17.31	13.68	15.66	20.04	0.16	0.8%
SC-1.15	10 min	4357	21.63	21.46	0.35	21.46	21.42	21.87	18.64	15.03	16.80	21.87	0.41	1.9%
SC-1.16	15 min	4403	24.41	24.67	0.52	24.68	22.80	24.65	20.26	18.14	18.92	24.65	-0.03	-0.1%
SC-1.17	15 min	4397	24.80	24.95	0.50	24.96	23.02	24.94	20.47	18.61	19.25	24.94	-0.02	-0.1%
SC-1.18	25 min	4458	16.33	16.28	0.44	16.46	14.55	15.80	15.15	15.05	15.65	15.80	-0.66	-4.0%
SC-1.19	1 hour	4558	19.19	19.08	0.45	19.15	9.97	11.52	12.28	19.29	18.61	19.29	0.14	0.7%
SC-1.20	1 hour	4556	18.00	17.99	0.35	18.03	9.69	11.31	12.11	18.12	17.37	18.12	0.09	0.5%
SC-1.21	1 hour	4556	18.01	18.00	0.35	18.04	9.70	11.31	12.11	18.13	17.38	18.13	0.09	0.5%
SC-1.22	1.50 hour	4585	18.16	18.16	0.47	18.19	9.71	11.33	12.14	18.19	17.44	18.19	0.00	0.0%
SC-1.23	1.50 hour	4532	20.02	19.94	0.86	19.95	16.69	16.76	18.23	18.22	17.93	18.23	-1.72	-8.6%
SC-1.24	20 min	4429	27.90	27.23	2.33	28.07	26.14	27.40	25.30	24.24	24.97	27.40	-0.67	-2.4%
SC-1.25	25 min	4462	28.35	27.96	2.55	28.51	26.56	27.54	25.37	25.16	25.59	27.54	-0.97	-3.4%
SC-1.26	25 min	4462	30.50	30.57	2.10	30.79	28.12	29.07	25.64	28.00	27.64	29.07	-1.72	-5.6%
SC-1.27	25 min	4462	31.02	31.16	2.05	31.25	28.49	29.60	26.13	28.57	28.18	29.60	-1.65	-5.3%
SC-1.28	15 min	4400	40.64	40.62	0.58	40.81	34.42	40.95	37.08	38.05	36.32	40.95	0.14	0.3%
SC-1.29	25 min	4459	43.00	42.89	1.95	42.92	34.98	41.81	39.63	40.21	38.95	41.81	-1.11	-2.6%
SC-1.30	25 min	4460	43.85	43.64	1.89	43.70	35.19	42.09	40.99	40.87	39.80	42.09	-1.61	-3.7%
SC-1.31	25 min	4460	44.38	44.29	1.90	44.70	35.35	42.30	41.69	41.35	40.31	42.30	-2.40	-5.4%
SC-1.32	25 min	4459	45.21	45.41	1.91	45.70	35.59	42.61	42.56	42.15	41.09	42.61	-3.09	-6.8%
SC-1.33	30 min	4504	46.91	46.82	2.95	47.23	35.90	43.01	43.69	44.51	42.79	44.51	-2.72	-5.8%
SC-1.34	30 min	4504	47.15	47.04	2.84	47.29	35.91	43.03	43.78	45.20	43.16	45.20	-2.09	-4.4%
SC-1.35	30 min	4504	47.47	47.33	2.71	47.40	35.95	43.08	43.94	45.87	43.60	45.87	-1.53	-3.2%
SC-1.36	30 min	4495	49.49	49.15	1.89	49.81	36.18	43.36	44.64	49.88	46.38	49.88	0.07	0.1%
SC-10.01	10 min	4363	0.82	0.83	0.07	0.85	0.89	0.69	0.82	0.52	0.41	0.89	0.04	4.5%
SC-100.01	10 min	4366	0.96	0.97	0.08	1.00	1.05	0.77	0.97	0.61	0.47	1.05	0.05	4.9%
SC-100.02	10 min	4363	1.65	1.69	0.14	1.71	1.79	1.40	1.66	1.08	0.85	1.79	0.08	4.5%
SC-101.01	10 min	4363	1.01	1.03	0.07	1.03	1.07	0.89	1.00	0.63	0.53	1.07	0.04	4.1%
SC-101.02	10 min	4354	1.78	1.79	0.12	1.81	1.81	1.63	1.69	1.12	0.97	1.81	0.00	0.2%
SC-102.01	10 min	4363	0.79	0.80	0.07	0.83	0.86	0.65	0.80	0.50	0.39	0.86	0.03	4.2%
SC-102.02	10 min	4361	3.00	3.03	0.20	3.06	3.08	2.71	2.86	1.94	1.62	3.08	0.02	0.6%
SC-103.01	10 min	4363	0.53	0.54	0.04	0.56	0.58	0.43	0.54	0.34	0.26	0.58	0.02	3.7%
SC-103.02	10 min	4354	1.87	1.88	0.13	1.91	1.91	1.63	1.78	1.18	0.98	1.91	0.00	-0.1%
SC-104.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.39	0.48	0.30	0.24	0.52	0.02	3.7%
SC-105.01	10 min	4363	0.51	0.52	0.04	0.53	0.55	0.43	0.51	0.32	0.26	0.55	0.02	4.3%
SC-105.02	10 min	4354	1.21	1.20	0.09	1.22	1.22	1.08	1.12	0.77	0.65	1.22	0.00	-0.4%
SC-105.03	10 min	4354	2.84	2.80	0.20	2.84	2.84	2.52	2.63	1.79	1.51	2.84	0.00	0.0%
SC-105.04	10 min	4354	3.84	3.86	0.25	3.91	3.91	3.44	3.63	2.42	2.05	3.91	0.00	0.1%
SC-105.05	10 min	4354	4.58	4.52	0.30	4.58	4.58	4.26	4.25	2.90	2.55	4.58	0.00	0.0%
SC-105.06	10 min	4354	4.80	4.68	0.32	4.75	4.75	4.68	4.39	3.13	2.87	4.75	0.00	-0.1%
SC-105.07	15 min	4393	7.07	6.89	0.84	6.96	7.16	6.99	6.55	4.66	4.41	7.16	0.20	2.8%
SC-105.08	15 min	4358	7.95	7.86	0.63	7.88	8.24	7.88	7.42	5.43	5.15	8.24	0.36	4.6%
SC-105.09	10 min	4356	10.65	10.59	0.13	10.60	10.82	10.57	9.45	7.22	6.82	10.82	0.22	2.1%
SC-106.01	10 min	4363	0.37	0.38	0.03	0.39	0.40	0.31	0.37	0.24	0.19	0.40	0.01	3.3%
SC-107.01	10 min	4363	0.65	0.67	0.05	0.68	0.70	0.54	0.65	0.41	0.33	0.70	0.02	3.3%
SC-108.01	10 min	4363	0.47	0.48	0.04	0.50	0.52	0.38	0.48	0.30	0.23	0.52	0.02	3.4%
SC-109.01	10 min	4363	0.61	0.62	0.05	0.64	0.67	0.51	0.62	0.39	0.31	0.67	0.03	4.1%
SC-11.01	10 min	4363	0.51	0.52	0.04	0.52	0.55	0.42	0.51	0.32	0.26	0.55	0.03	5.0%
SC-110.01	10 min	4363	0.56	0.57	0.05	0.59	0.61	0.47	0.57	0.36	0.29	0.61	0.02	4.2%
SC-110.02	10 min	4361	1.29	1.30	0.09	1.32	1.32	1.17	1.23	0.82	0.71	1.32	0.00	0.2%
SC-110.03	10 min	4361	1.39	1.41	0.09	1.42	1.44	1.28	1.34	0.90	0.78	1.44	0.02	1.5%
SC-111.01	20 min	4433	0.40	0.39	0.05	0.39	0.29	0.41	0.36	0.28	0.26	0.41	0.02	5.5%
SC-112.01	10 min	4363	0.95	0.97	0.08	0.99	1.03	0.80	0.95	0.61	0.49	1.03	0.04	4.0%
SC-113.01	10 min	4363	0.35	0.35	0.03	0.36	0.38	0.29	0.35	0.22	0.18	0.38	0.02	4.2%
SC-113.02	10 min	4354	1.12	1.11	0.08	1.12	1.12	1.05	1.04	0.71	0.64	1.12	0.00	0.2%
SC-114.01	10 min	4363	0.60	0.62	0.05	0.62	0.64	0.56	0.59	0.38	0.35	0.64	0.02	3.6%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-114.02	10 min	4361	0.97	0.98	0.07	0.98	1.01	0.89	0.93	0.62	0.55	1.01	0.03	2.7%
SC-114.03	10 min	4368	2.01	2.04	0.15	2.05	2.12	1.80	1.97	1.30	1.11	2.12	0.07	3.4%
SC-115.01	10 min	4363	0.54	0.55	0.05	0.57	0.59	0.46	0.55	0.35	0.28	0.59	0.02	4.2%
SC-115.02	10 min	4365	0.89	0.90	0.06	0.90	0.93	0.78	0.86	0.57	0.47	0.93	0.03	3.2%
SC-116.01	10 min	4363	0.54	0.55	0.05	0.56	0.59	0.45	0.54	0.34	0.28	0.59	0.03	5.0%
SC-116.02	10 min	4363	0.88	0.90	0.07	0.90	0.94	0.77	0.87	0.57	0.47	0.94	0.04	4.1%
SC-117.01	10 min	4363	0.32	0.33	0.03	0.33	0.35	0.27	0.32	0.20	0.16	0.35	0.02	5.2%
SC-118.01	10 min	4363	0.69	0.70	0.06	0.73	0.76	0.55	0.70	0.45	0.33	0.76	0.03	4.0%
SC-119.01	10 min	4363	1.06	1.09	0.09	1.11	1.16	0.90	1.07	0.68	0.55	1.16	0.04	4.1%
SC-119.02	10 min	4363	2.67	2.72	0.22	2.77	2.88	2.29	2.67	1.73	1.40	2.88	0.11	4.1%
SC-12.01	10 min	4363	0.58	0.59	0.05	0.61	0.63	0.50	0.58	0.37	0.30	0.63	0.02	3.4%
SC-12.02	10 min	4363	1.01	1.03	0.09	1.06	1.10	0.84	1.02	0.64	0.51	1.10	0.04	4.1%
SC-12.03	10 min	4363	1.87	1.91	0.15	1.91	1.99	1.62	1.85	1.21	0.98	1.99	0.08	4.0%
SC-12.04	10 min	4363	2.38	2.42	0.19	2.43	2.53	2.08	2.35	1.56	1.27	2.53	0.10	4.1%
SC-120.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.40	0.48	0.30	0.24	0.52	0.02	4.1%
SC-121.01	10 min	4363	0.60	0.61	0.05	0.62	0.65	0.51	0.60	0.38	0.31	0.65	0.03	4.9%
SC-122.01	10 min	4363	0.96	0.97	0.09	1.01	1.06	0.76	0.98	0.62	0.46	1.06	0.05	4.8%
SC-122.02	10 min	4363	1.53	1.56	0.12	1.57	1.64	1.30	1.52	1.00	0.79	1.64	0.07	4.3%
SC-122.03	10 min	4365	2.06	2.09	0.17	2.10	2.16	1.77	2.00	1.34	1.09	2.16	0.06	3.0%
SC-123.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.40	0.49	0.32	0.24	0.53	0.02	4.6%
SC-123.02	10 min	4361	1.39	1.41	0.10	1.41	1.44	1.21	1.34	0.91	0.74	1.44	0.03	2.3%
SC-123.03	10 min	4354	9.44	9.46	0.58	9.59	9.59	9.02	8.89	6.04	5.87	9.59	0.00	0.0%
SC-123.04	10 min	4361	9.61	9.68	0.60	9.80	9.84	9.14	9.12	6.16	5.98	9.84	0.04	0.4%
SC-123.05	10 min	4365	12.15	12.27	0.73	12.34	12.66	11.32	11.66	7.88	7.48	12.66	0.32	2.6%
SC-123.06	10 min	4363	12.47	12.56	0.68	12.65	13.09	11.54	11.99	8.07	7.74	13.09	0.44	3.4%
SC-123.07	10 min	4363	13.23	13.23	0.66	13.55	13.96	12.41	12.67	8.71	8.45	13.96	0.41	3.0%
SC-124.01	20 min	4371	0.61	0.59	0.07	0.60	0.43	0.58	0.60	0.44	0.40	0.60	0.00	-0.4%
SC-124.02	20 min	4371	3.94	3.86	0.47	3.89	3.41	3.83	3.89	2.78	2.64	3.89	0.00	0.1%
SC-125.01	20 min	4433	0.84	0.82	0.10	0.83	0.59	0.82	0.80	0.61	0.55	0.82	-0.01	-0.6%
SC-126.01	10 min	4363	0.45	0.46	0.04	0.47	0.49	0.38	0.46	0.29	0.23	0.49	0.02	5.2%
SC-126.02	20 min	4433	1.11	1.08	0.13	1.09	0.84	1.07	1.11	0.80	0.75	1.11	0.02	2.0%
SC-126.03	20 min	4371	2.06	2.02	0.29	2.07	1.92	2.02	2.07	1.41	1.35	2.07	0.00	0.1%
SC-127.01	10 min	4363	1.06	1.08	0.09	1.12	1.17	0.84	1.08	0.69	0.51	1.17	0.05	4.6%
SC-127.02	10 min	4363	2.89	2.94	0.25	3.02	3.14	2.39	2.91	1.90	1.46	3.14	0.12	4.1%
SC-128.01	10 min	4363	1.05	1.07	0.09	1.10	1.15	0.85	1.06	0.68	0.52	1.15	0.05	4.2%
SC-129.01	10 min	4361	0.52	0.53	0.03	0.53	0.54	0.49	0.50	0.32	0.29	0.54	0.01	1.7%
SC-13.01	10 min	4363	0.53	0.54	0.05	0.56	0.58	0.45	0.54	0.34	0.27	0.58	0.02	3.8%
SC-130.01	10 min	4363	0.78	0.80	0.07	0.82	0.86	0.65	0.79	0.50	0.39	0.86	0.04	4.6%
SC-131.01	10 min	4366	0.31	0.31	0.03	0.33	0.34	0.24	0.32	0.20	0.15	0.34	0.01	3.4%
SC-132.01	10 min	4363	0.44	0.45	0.04	0.46	0.48	0.37	0.44	0.28	0.22	0.48	0.02	3.3%
SC-133.01	10 min	4363	0.32	0.32	0.03	0.34	0.35	0.26	0.32	0.20	0.16	0.35	0.01	2.7%
SC-134.01	10 min	4363	0.27	0.27	0.02	0.28	0.29	0.23	0.27	0.17	0.14	0.29	0.01	3.3%
SC-134.02	10 min	4364	0.85	0.86	0.05	0.86	0.79	0.87	0.71	0.54	0.51	0.87	0.01	1.0%
SC-134.03	15 min	4392	1.70	1.57	0.24	1.57	1.53	1.80	1.56	1.12	1.07	1.80	0.23	14.7%
SC-134.04	20 min	4429	2.43	2.27	0.32	2.29	2.12	2.57	2.23	1.60	1.53	2.57	0.28	12.2%
SC-135.01	10 min	4363	0.21	0.22	0.02	0.22	0.23	0.18	0.22	0.14	0.11	0.23	0.01	5.5%
SC-135.02	10 min	4361	1.19	1.20	0.09	1.20	1.24	1.04	1.14	0.77	0.64	1.24	0.04	3.2%
SC-135.03	10 min	4365	1.57	1.59	0.11	1.59	1.64	1.39	1.52	1.02	0.85	1.64	0.05	3.0%
SC-135.04	10 min	4365	3.48	3.52	0.26	3.53	3.63	3.08	3.37	2.28	1.90	3.63	0.10	2.7%
SC-135.05	10 min	4365	3.96	4.00	0.23	4.00	4.10	3.56	3.76	2.54	2.19	4.10	0.10	2.5%
SC-135.06	10 min	4354	6.49	6.40	0.37	6.46	6.46	5.96	5.81	4.06	3.65	6.46	0.00	0.0%
SC-136.01	10 min	4363	0.64	0.65	0.05	0.67	0.70	0.53	0.65	0.41	0.32	0.70	0.03	4.2%
SC-137.01	10 min	4363	0.65	0.66	0.06	0.68	0.71	0.55	0.65	0.42	0.34	0.71	0.02	3.7%
SC-138.01	10 min	4368	0.78	0.80	0.06	0.80	0.83	0.67	0.77	0.51	0.42	0.83	0.03	3.7%
SC-139.01	10 min	4363	0.76	0.78	0.06	0.79	0.83	0.66	0.77	0.48	0.41	0.83	0.04	4.8%
SC-139.02	10 min	4363	0.93	0.95	0.07	0.95	0.99	0.82	0.92	0.59	0.50	0.99	0.04	4.7%
SC-14.01	10 min	4363	0.93	0.95	0.08	0.98	1.02	0.77	0.94	0.59	0.47	1.02	0.04	4.0%
SC-14.02	10 min	4368	1.45	1.48	0.11	1.48	1.54	1.26	1.43	0.94	0.76	1.54	0.06	3.9%
SC-14.03	10 min	4368	1.89	1.93	0.14	1.93	2.00	1.67	1.86	1.23	1.01	2.00	0.07	3.6%
SC-140.01	10 min	4363	0.54	0.55	0.05	0.56	0.58	0.45	0.54	0.34	0.28	0.58	0.02	4.2%
SC-141.01	10 min	4364	0.84	0.86	0.09	0.87	0.74	0.86	0.75	0.53	0.49	0.86	-0.01	-1.5%
SC-142.01	20 min	4433	1.36	1.32	0.17	1.34	0.98	1.37	1.28	0.97	0.88	1.37	0.03	2.3%
SC-143.01	20 min	4367	0.50	0.50	0.06	0.51	0.46	0.48	0.52	0.36	0.35	0.52	0.01	1.1%
SC-143.02	10 min	4364	4.23	4.11	0.34	4.13	4.04	4.21	3.98	2.75	2.57	4.21	0.08	1.8%
SC-144.01	10 min	4368	0.62	0.63	0.05	0.63	0.66	0.55	0.61	0.39	0.36	0.66	0.03	4.7%
SC-144.02	10 min	4365	0.88	0.89	0.06	0.90	0.92	0.81	0.85	0.56	0.53	0.92	0.02	2.7%
SC-144.03	10 min	4368	1.17	1.18	0.05	1.19	1.22	1.13	1.11	0.76	0.74	1.22	0.03	2.6%
SC-144.04	10 min	4364	2.08	2.07	0.05	2.07	2.04	2.08	1.75	1.38	1.30	2.08	0.01	0.4%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-144.05	10 min	4364	3.94	3.94	0.19	3.95	3.75	3.83	3.21	2.39	2.33	3.83	-0.13	-3.2%
SC-145.01	10 min	4363	0.79	0.81	0.07	0.82	0.86	0.66	0.79	0.52	0.40	0.86	0.04	4.9%
SC-145.02	10 min	4368	1.47	1.51	0.12	1.52	1.57	1.23	1.45	0.95	0.75	1.57	0.04	3.0%
SC-146.01	20 min	4399	1.54	1.50	0.18	1.50	1.09	1.58	1.35	1.10	1.00	1.58	0.08	5.5%
SC-147.01	15 min	4392	0.72	0.67	0.14	0.67	0.65	0.77	0.65	0.46	0.44	0.77	0.10	15.5%
SC-147.02	15 min	4401	1.01	0.95	0.19	0.95	0.89	1.08	0.90	0.65	0.62	1.08	0.13	13.9%
SC-147.03	10 min	4364	2.61	2.66	0.32	2.68	2.25	2.69	2.41	1.75	1.59	2.69	0.01	0.3%
SC-148.01	10 min	4363	0.66	0.68	0.05	0.68	0.71	0.57	0.66	0.42	0.34	0.71	0.03	4.5%
SC-148.02	10 min	4364	1.41	1.43	0.20	1.45	1.17	1.36	1.28	0.93	0.80	1.36	-0.09	-6.5%
SC-149.01	10 min	4361	0.47	0.48	0.03	0.48	0.49	0.44	0.47	0.31	0.30	0.49	0.01	1.7%
SC-149.02	10 min	4364	1.50	1.53	0.18	1.55	1.29	1.50	1.41	0.99	0.92	1.50	-0.05	-3.2%
SC-15.01	10 min	4363	0.95	0.97	0.08	0.98	1.03	0.80	0.95	0.61	0.49	1.03	0.05	4.9%
SC-15.02	10 min	4363	1.25	1.27	0.11	1.30	1.35	1.06	1.25	0.81	0.66	1.35	0.05	4.2%
SC-15.03	10 min	4368	1.99	2.03	0.16	2.04	2.11	1.73	1.95	1.29	1.07	2.11	0.06	3.2%
SC-150.01	10 min	4363	0.57	0.58	0.05	0.60	0.62	0.47	0.58	0.36	0.29	0.62	0.02	3.8%
SC-150.02	10 min	4363	1.11	1.13	0.09	1.14	1.19	0.97	1.10	0.72	0.59	1.19	0.05	4.3%
SC-150.03	10 min	4365	2.84	2.88	0.21	2.89	2.97	2.51	2.76	1.86	1.54	2.97	0.08	2.7%
SC-150.04	10 min	4365	3.69	3.75	0.27	3.77	3.87	3.26	3.57	2.41	2.02	3.87	0.10	2.7%
SC-150.05	10 min	4365	5.14	5.18	0.32	5.20	5.32	4.58	4.87	3.35	2.85	5.32	0.12	2.2%
SC-150.06	10 min	4354	9.49	9.54	0.47	9.63	9.63	8.66	8.75	6.08	5.38	9.63	0.00	0.0%
SC-150.07	10 min	4354	14.96	14.82	0.83	14.97	14.97	13.74	13.78	9.66	8.57	14.97	0.00	0.0%
SC-150.08	1.50 hour	4532	7.79	7.74	1.68	7.81	0.31	0.35	0.38	7.67	10.01	10.01	2.20	28.2%
SC-150.09	1.50 hour	4532	8.24	8.21	1.72	8.28	2.38	2.14	2.22	8.14	10.71	10.71	2.43	29.4%
SC-150.10	2 hours	4614	9.96	10.43	2.43	10.44	5.97	5.94	5.36	9.86	13.07	13.07	2.63	25.2%
SC-150.11	10 min	4354	16.17	16.13	0.63	16.22	16.22	15.59	14.46	13.09	16.93	16.93	0.71	4.4%
SC-150.12	10 min	4361	25.26	25.36	0.84	25.46	25.51	24.30	22.70	16.60	21.37	25.51	0.05	0.2%
SC-150.13	15 min	4396	28.72	28.69	1.14	28.86	29.08	27.86	26.05	19.75	23.73	29.08	0.22	0.8%
SC-150.14	15 min	4407	42.69	42.40	1.32	42.62	40.68	40.55	37.03	32.11	33.62	40.68	-1.94	-4.5%
SC-150.15	15 min	4407	43.20	42.85	1.31	42.94	41.07	41.04	37.86	32.73	34.22	41.07	-1.87	-4.4%
SC-150.16	15 min	4397	45.15	45.08	1.41	45.14	42.57	42.85	40.73	34.95	35.92	42.85	-2.30	-5.1%
SC-150.17	15 min	4398	45.81	45.76	1.57	45.87	43.07	43.38	42.70	36.02	36.83	43.38	-2.49	-5.4%
SC-151.01	10 min	4363	0.76	0.77	0.07	0.80	0.83	0.63	0.77	0.49	0.38	0.83	0.03	4.0%
SC-151.02	10 min	4363	1.18	1.20	0.09	1.21	1.27	1.02	1.17	0.77	0.62	1.27	0.05	4.5%
SC-152.01	10 min	4363	0.67	0.69	0.06	0.70	0.73	0.57	0.67	0.43	0.35	0.73	0.03	4.1%
SC-153.01	10 min	4363	0.55	0.56	0.05	0.57	0.59	0.45	0.55	0.36	0.29	0.59	0.02	4.3%
SC-153.02	10 min	4365	1.31	1.33	0.10	1.34	1.38	1.12	1.28	0.87	0.71	1.38	0.03	2.6%
SC-154.01	10 min	4363	1.01	1.03	0.08	1.04	1.08	0.88	1.00	0.64	0.56	1.08	0.04	4.1%
SC-154.02	10 min	4361	3.42	3.45	0.23	3.49	3.50	3.10	3.26	2.25	1.95	3.50	0.01	0.4%
SC-155.01	10 min	4354	0.38	0.38	0.02	0.38	0.38	0.36	0.35	0.24	0.21	0.38	0.00	0.5%
SC-155.02	10 min	4361	1.07	1.08	0.07	1.09	1.10	1.00	1.02	0.68	0.60	1.10	0.01	0.8%
SC-156.01	10 min	4363	0.41	0.42	0.04	0.43	0.44	0.35	0.41	0.27	0.22	0.44	0.01	3.4%
SC-157.01	10 min	4363	0.49	0.50	0.04	0.51	0.52	0.41	0.49	0.32	0.26	0.52	0.01	2.9%
SC-158.01	10 min	4363	0.65	0.66	0.06	0.68	0.71	0.54	0.65	0.41	0.33	0.71	0.03	3.9%
SC-158.02	10 min	4363	0.84	0.85	0.07	0.86	0.89	0.72	0.83	0.54	0.44	0.89	0.03	4.0%
SC-158.03	10 min	4361	1.82	1.84	0.13	1.84	1.89	1.62	1.75	1.18	0.99	1.89	0.05	2.6%
SC-158.04	10 min	4365	3.39	3.45	0.27	3.48	3.58	2.98	3.32	2.22	1.84	3.58	0.10	2.8%
SC-159.01	10 min	4363	0.51	0.52	0.04	0.53	0.56	0.43	0.52	0.33	0.26	0.56	0.03	5.2%
SC-16.01	10 min	4363	0.62	0.63	0.05	0.65	0.67	0.51	0.63	0.39	0.31	0.67	0.02	3.8%
SC-160.01	10 min	4363	0.50	0.51	0.04	0.52	0.54	0.41	0.51	0.32	0.25	0.54	0.02	4.7%
SC-160.02	10 min	4368	1.12	1.15	0.09	1.15	1.19	0.99	1.10	0.73	0.60	1.19	0.04	3.6%
SC-161.01	10 min	4363	0.61	0.62	0.05	0.64	0.66	0.50	0.62	0.39	0.30	0.66	0.02	3.8%
SC-161.02	10 min	4363	1.16	1.19	0.09	1.20	1.25	1.00	1.16	0.76	0.61	1.25	0.05	3.8%
SC-162.01	10 min	4363	0.71	0.73	0.06	0.73	0.77	0.61	0.71	0.46	0.38	0.77	0.04	4.8%
SC-163.01	10 min	4354	0.41	0.40	0.02	0.40	0.40	0.41	0.37	0.26	0.24	0.41	0.01	2.2%
SC-163.02	10 min	4354	0.79	0.76	0.06	0.77	0.77	0.77	0.72	0.50	0.46	0.77	0.00	0.0%
SC-163.03	10 min	4354	1.29	1.28	0.08	1.30	1.30	1.23	1.21	0.82	0.74	1.30	0.00	0.2%
SC-163.04	10 min	4361	1.80	1.81	0.12	1.83	1.85	1.66	1.72	1.16	1.02	1.85	0.02	1.2%
SC-163.05	10 min	4361	3.12	3.15	0.21	3.18	3.20	2.84	2.97	2.04	1.77	3.20	0.02	0.7%
SC-164.01	10 min	4363	0.62	0.63	0.05	0.63	0.66	0.53	0.61	0.41	0.33	0.66	0.03	4.4%
SC-165.01	10 min	4368	0.53	0.54	0.04	0.54	0.56	0.45	0.52	0.35	0.28	0.56	0.02	4.3%
SC-165.02	10 min	4363	1.37	1.40	0.11	1.41	1.47	1.17	1.35	0.90	0.74	1.47	0.06	4.0%
SC-165.03	10 min	4368	1.78	1.82	0.14	1.83	1.89	1.53	1.75	1.18	0.97	1.89	0.06	3.1%
SC-165.04	10 min	4365	3.84	3.88	0.24	3.90	4.00	3.43	3.68	2.50	2.14	4.00	0.10	2.4%
SC-165.05	10 min	4365	6.48	6.52	0.38	6.52	6.66	5.78	6.08	4.22	3.64	6.66	0.14	2.1%
SC-166.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.41	0.48	0.32	0.26	0.52	0.02	3.4%
SC-167.01	10 min	4363	0.72	0.73	0.06	0.75	0.78	0.59	0.73	0.46	0.36	0.78	0.03	4.5%
SC-167.02	10 min	4368	1.83	1.87	0.14	1.88	1.95	1.59	1.81	1.18	0.96	1.95	0.07	3.5%
SC-168.01	10 min	4363	0.58	0.60	0.05	0.61	0.64	0.49	0.59	0.37	0.30	0.64	0.03	4.3%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-169.01	10 min	4363	0.54	0.55	0.04	0.55	0.57	0.45	0.53	0.35	0.29	0.57	0.02	3.9%
SC-169.02	10 min	4365	1.00	1.01	0.08	1.02	1.05	0.88	0.97	0.65	0.56	1.05	0.03	2.8%
SC-169.03	10 min	4368	2.23	2.28	0.18	2.28	2.37	1.91	2.20	1.47	1.22	2.37	0.09	4.0%
SC-17.01	10 min	4363	0.54	0.55	0.05	0.57	0.59	0.45	0.55	0.34	0.27	0.59	0.02	3.5%
SC-17.02	10 min	4368	0.94	0.96	0.07	0.96	1.00	0.82	0.93	0.61	0.50	1.00	0.04	4.2%
SC-17.03	10 min	4365	1.58	1.60	0.12	1.61	1.65	1.39	1.53	1.02	0.84	1.65	0.04	2.7%
SC-17.04	10 min	4354	3.76	3.75	0.26	3.80	3.80	3.39	3.52	2.37	2.04	3.80	0.00	0.1%
SC-17.05	10 min	4354	5.17	5.14	0.32	5.21	5.21	4.79	4.76	3.27	2.85	5.21	0.00	-0.1%
SC-17.06	10 min	4354	5.84	5.80	0.32	5.86	5.86	5.50	5.40	3.73	3.29	5.86	0.00	0.0%
SC-17.07	10 min	4361	6.21	6.23	0.28	6.27	6.27	5.91	5.72	3.97	3.56	6.27	0.00	0.0%
SC-170.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.41	0.48	0.31	0.25	0.52	0.02	4.8%
SC-171.01	10 min	4363	0.34	0.35	0.03	0.36	0.38	0.27	0.35	0.22	0.17	0.38	0.02	5.4%
SC-172.01	10 min	4366	0.69	0.70	0.06	0.72	0.76	0.55	0.70	0.44	0.33	0.76	0.04	5.1%
SC-172.02	10 min	4363	1.18	1.20	0.10	1.22	1.27	0.99	1.18	0.77	0.60	1.27	0.05	4.3%
SC-173.01	25 min	4462	0.71	0.70	0.06	0.71	0.43	0.62	0.72	0.57	0.58	0.72	0.01	0.9%
SC-173.02	20 min	4433	1.51	1.47	0.17	1.48	1.23	1.43	1.54	1.13	1.08	1.54	0.06	4.3%
SC-173.03	20 min	4367	1.53	1.52	0.17	1.55	1.38	1.44	1.55	1.17	1.16	1.55	0.00	0.1%
SC-173.04	10 min	4361	2.61	2.63	0.17	2.65	2.68	2.48	2.57	1.81	1.76	2.68	0.03	1.2%
SC-173.05	10 min	4363	3.06	3.09	0.13	3.12	3.20	2.85	2.89	2.03	2.08	3.20	0.08	2.6%
SC-174.01	10 min	4363	0.44	0.44	0.04	0.46	0.48	0.35	0.45	0.28	0.21	0.48	0.02	4.7%
SC-175.01	10 min	4363	0.77	0.78	0.07	0.81	0.84	0.64	0.78	0.49	0.39	0.84	0.03	3.6%
SC-175.02	10 min	4363	1.57	1.60	0.13	1.61	1.67	1.37	1.55	1.01	0.83	1.67	0.06	4.0%
SC-175.03	10 min	4365	2.54	2.59	0.21	2.61	2.69	2.22	2.49	1.64	1.36	2.69	0.08	2.9%
SC-175.04	10 min	4363	3.10	3.16	0.24	3.16	3.29	2.77	3.03	2.01	1.75	3.29	0.13	4.1%
SC-175.05	10 min	4368	3.51	3.56	0.18	3.57	3.66	3.21	3.32	2.22	2.00	3.66	0.09	2.5%
SC-176.01	10 min	4361	0.33	0.33	0.02	0.33	0.33	0.33	0.32	0.22	0.21	0.33	0.00	1.2%
SC-177.01	10 min	4363	0.43	0.44	0.04	0.45	0.47	0.35	0.44	0.28	0.21	0.47	0.02	4.7%
SC-177.02	10 min	4354	1.15	1.14	0.08	1.16	1.16	1.02	1.07	0.73	0.61	1.16	0.00	0.1%
SC-177.03	10 min	4361	3.13	3.17	0.23	3.17	3.25	2.80	3.02	2.05	1.71	3.25	0.08	2.5%
SC-177.04	10 min	4365	4.28	4.33	0.31	4.33	4.46	3.83	4.13	2.79	2.34	4.46	0.13	3.1%
SC-178.01	10 min	4363	0.94	0.96	0.08	0.98	1.02	0.79	0.94	0.60	0.49	1.02	0.04	4.0%
SC-178.02	10 min	4365	1.43	1.45	0.11	1.46	1.50	1.26	1.39	0.92	0.77	1.50	0.04	2.9%
SC-179.01	10 min	4363	0.77	0.78	0.07	0.80	0.84	0.64	0.78	0.49	0.39	0.84	0.04	4.7%
SC-18.01	10 min	4363	0.60	0.61	0.05	0.62	0.65	0.50	0.60	0.38	0.30	0.65	0.03	4.6%
SC-18.02	10 min	4354	0.96	0.96	0.07	0.98	0.98	0.84	0.91	0.60	0.50	0.98	0.00	-0.5%
SC-180.01	10 min	4363	0.74	0.76	0.07	0.77	0.81	0.62	0.75	0.48	0.38	0.81	0.04	4.8%
SC-180.02	10 min	4368	1.28	1.30	0.10	1.31	1.35	1.14	1.25	0.82	0.71	1.35	0.04	3.1%
SC-180.03	10 min	4365	1.80	1.83	0.13	1.84	1.89	1.60	1.75	1.16	1.00	1.89	0.05	2.7%
SC-180.04	10 min	4365	2.58	2.63	0.21	2.65	2.73	2.27	2.53	1.68	1.43	2.73	0.08	2.9%
SC-181.01	20 min	4371	0.33	0.33	0.04	0.33	0.30	0.33	0.33	0.23	0.22	0.33	0.00	0.5%
SC-181.02	10 min	4354	1.07	1.07	0.07	1.08	1.08	1.00	1.01	0.68	0.63	1.08	0.00	0.3%
SC-181.03	10 min	4365	1.76	1.78	0.13	1.79	1.84	1.57	1.70	1.15	1.00	1.84	0.05	2.9%
SC-181.04	10 min	4361	3.21	3.23	0.21	3.24	3.32	2.97	3.05	2.07	1.94	3.32	0.07	2.3%
SC-181.05	10 min	4363	3.52	3.53	0.13	3.54	3.65	3.33	3.31	2.26	2.17	3.65	0.11	3.2%
SC-181.06	10 min	4363	3.89	3.91	0.12	3.94	4.03	3.68	3.62	2.51	2.39	4.03	0.09	2.3%
SC-181.07	10 min	4354	8.73	8.65	0.26	8.69	8.69	8.33	7.73	5.47	5.19	8.69	0.00	0.0%
SC-181.08	10 min	4354	9.01	8.98	0.20	9.01	9.01	8.53	7.99	5.67	5.39	9.01	0.00	0.0%
SC-182.01	10 min	4363	0.52	0.53	0.05	0.54	0.57	0.45	0.53	0.33	0.27	0.57	0.03	5.2%
SC-182.02	10 min	4365	0.85	0.86	0.06	0.87	0.89	0.77	0.83	0.54	0.47	0.89	0.02	2.5%
SC-182.03	10 min	4354	1.36	1.34	0.09	1.36	1.36	1.33	1.32	0.88	0.85	1.36	0.00	0.0%
SC-183.01	10 min	4361	0.50	0.51	0.03	0.51	0.52	0.49	0.48	0.32	0.31	0.52	0.01	2.3%
SC-183.02	10 min	4365	1.14	1.15	0.08	1.15	1.19	1.04	1.10	0.72	0.66	1.19	0.04	3.3%
SC-183.03	10 min	4361	2.82	2.85	0.17	2.85	2.91	2.59	2.65	1.78	1.62	2.91	0.06	2.0%
SC-183.04	10 min	4365	3.25	3.28	0.16	3.29	3.34	2.99	3.00	2.06	1.89	3.34	0.05	1.6%
SC-184.01	10 min	4363	1.21	1.24	0.10	1.25	1.31	1.06	1.21	0.77	0.66	1.31	0.06	4.8%
SC-185.01	10 min	4363	0.72	0.73	0.06	0.75	0.79	0.60	0.73	0.46	0.36	0.79	0.04	4.8%
SC-185.02	10 min	4368	1.60	1.63	0.13	1.64	1.70	1.40	1.57	1.03	0.85	1.70	0.06	3.6%
SC-186.01	10 min	4363	0.25	0.26	0.02	0.27	0.28	0.21	0.26	0.17	0.13	0.28	0.01	2.2%
SC-187.01	10 min	4363	0.73	0.74	0.06	0.76	0.80	0.60	0.74	0.46	0.36	0.80	0.04	4.6%
SC-187.02	10 min	4363	1.42	1.45	0.11	1.45	1.52	1.24	1.40	0.92	0.76	1.52	0.06	4.5%
SC-187.03	10 min	4363	1.66	1.68	0.12	1.73	1.79	1.47	1.64	1.08	0.91	1.79	0.06	3.4%
SC-187.04	10 min	4366	2.16	2.12	0.08	2.14	2.26	1.96	2.02	1.35	1.20	2.26	0.12	5.7%
SC-187.05	10 min	4356	2.55	2.55	0.07	2.55	2.63	2.34	2.31	1.58	1.41	2.63	0.08	3.0%
SC-188.01	10 min	4363	0.77	0.78	0.06	0.80	0.84	0.64	0.78	0.49	0.38	0.84	0.04	4.6%
SC-188.02	10 min	4368	1.14	1.16	0.09	1.17	1.21	1.00	1.12	0.73	0.60	1.21	0.04	3.3%
SC-189.01	10 min	4363	0.87	0.88	0.07	0.91	0.95	0.72	0.88	0.55	0.44	0.95	0.04	4.2%
SC-189.02	10 min	4363	1.56	1.59	0.13	1.61	1.68	1.32	1.56	1.02	0.83	1.68	0.07	4.1%
SC-19.01	10 min	4354	0.37	0.36	0.02	0.37	0.37	0.33	0.34	0.23	0.20	0.37	0.00	-1.0%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-190.01	10 min	4363	0.38	0.39	0.03	0.40	0.42	0.31	0.39	0.24	0.19	0.42	0.02	3.7%
SC-191.01	10 min	4363	0.70	0.71	0.06	0.73	0.76	0.58	0.71	0.44	0.35	0.76	0.03	4.2%
SC-191.02	10 min	4363	1.01	1.03	0.08	1.03	1.08	0.88	1.00	0.65	0.53	1.08	0.05	4.5%
SC-191.03	10 min	4365	1.87	1.89	0.13	1.90	1.95	1.67	1.81	1.21	1.01	1.95	0.05	2.8%
SC-191.04	10 min	4365	2.73	2.76	0.21	2.78	2.86	2.41	2.65	1.78	1.48	2.86	0.08	2.8%
SC-191.05	10 min	4361	3.80	3.84	0.25	3.85	3.92	3.41	3.59	2.44	2.09	3.92	0.07	1.9%
SC-191.06	10 min	4361	6.52	6.58	0.40	6.62	6.71	5.96	6.19	4.24	3.87	6.71	0.09	1.3%
SC-191.07	10 min	4354	7.87	7.85	0.41	7.93	7.93	7.38	7.20	5.02	4.77	7.93	0.00	0.0%
SC-191.08	10 min	4363	8.47	8.53	0.39	8.63	8.81	7.88	7.89	5.66	5.45	8.81	0.18	2.1%
SC-192.01	10 min	4368	2.20	2.24	0.17	2.25	2.33	1.90	2.15	1.44	1.20	2.33	0.08	3.6%
SC-193.01	10 min	4363	1.00	1.02	0.08	1.02	1.07	0.89	0.98	0.63	0.57	1.07	0.05	4.5%
SC-194.01	10 min	4361	1.01	1.02	0.06	1.03	1.04	1.01	0.99	0.67	0.64	1.04	0.01	0.8%
SC-194.02	20 min	4433	3.90	3.89	0.35	3.91	2.64	3.55	3.92	3.06	2.93	3.92	0.00	0.1%
SC-194.03	25 min	4461	4.12	4.14	0.44	4.20	3.27	3.72	4.06	3.33	3.36	4.06	-0.14	-3.3%
SC-195.01	20 min	4429	1.34	1.33	0.10	1.35	0.80	1.18	1.31	1.06	1.01	1.31	-0.04	-2.9%
SC-196.01	10 min	4365	3.26	3.30	0.24	3.32	3.43	3.02	3.16	2.05	1.99	3.43	0.11	3.2%
SC-197.01	10 min	4354	2.15	2.15	0.13	2.18	2.18	2.17	2.07	1.40	1.34	2.18	0.00	0.0%
SC-198.01	20 min	4399	2.09	2.05	0.23	2.05	1.39	2.07	1.85	1.53	1.38	2.07	0.02	0.7%
SC-2.01	10 min	4354	0.46	0.46	0.03	0.47	0.47	0.46	0.44	0.29	0.28	0.47	0.00	-0.2%
SC-20.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.39	0.48	0.30	0.24	0.51	0.02	4.5%
SC-200.01	10 min	4363	0.69	0.70	0.05	0.70	0.73	0.58	0.68	0.45	0.37	0.73	0.03	4.6%
SC-200.02	10 min	4363	1.20	1.22	0.10	1.23	1.29	1.03	1.19	0.79	0.66	1.29	0.06	4.6%
SC-200.03	10 min	4365	2.24	2.27	0.17	2.27	2.34	1.99	2.17	1.46	1.29	2.34	0.07	3.0%
SC-200.04	10 min	4354	3.30	3.26	0.23	3.31	3.31	3.05	3.06	2.09	1.92	3.31	0.00	0.1%
SC-200.05	10 min	4361	5.32	5.36	0.31	5.43	5.43	4.89	4.98	3.40	3.05	5.43	0.00	0.1%
SC-200.06	10 min	4364	8.03	7.87	0.58	7.93	7.64	8.21	7.24	5.26	5.00	8.21	0.28	3.5%
SC-200.07	15 min	4401	9.33	8.81	1.31	8.96	8.68	9.66	8.40	6.21	5.96	9.66	0.70	7.8%
SC-200.08	15 min	4401	10.72	10.33	1.38	10.50	9.99	11.08	9.41	7.26	6.95	11.08	0.57	5.5%
SC-200.09	15 min	4401	15.63	15.42	1.51	15.68	14.98	16.72	12.39	10.83	10.31	16.72	1.04	6.6%
SC-201.01	10 min	4363	0.86	0.87	0.07	0.90	0.94	0.71	0.87	0.55	0.43	0.94	0.04	4.1%
SC-202.01	10 min	4363	0.87	0.89	0.08	0.92	0.96	0.70	0.89	0.56	0.42	0.96	0.04	4.4%
SC-203.01	10 min	4363	0.88	0.90	0.07	0.91	0.95	0.76	0.88	0.55	0.46	0.95	0.04	4.6%
SC-204.01	10 min	4364	1.16	1.13	0.08	1.13	1.12	1.14	1.04	0.73	0.67	1.14	0.01	1.1%
SC-205.01	20 min	4433	0.49	0.47	0.06	0.48	0.35	0.49	0.46	0.35	0.31	0.49	0.01	1.5%
SC-206.01	20 min	4429	3.53	3.28	0.52	3.30	3.07	3.86	3.21	2.28	2.20	3.86	0.56	16.9%
SC-207.01	10 min	4363	0.83	0.85	0.07	0.85	0.89	0.70	0.82	0.55	0.43	0.89	0.04	4.6%
SC-207.02	10 min	4365	1.63	1.65	0.13	1.66	1.70	1.42	1.58	1.06	0.88	1.70	0.04	2.7%
SC-207.03	10 min	4361	1.78	1.80	0.13	1.81	1.85	1.61	1.70	1.14	1.01	1.85	0.03	1.9%
SC-207.04	10 min	4354	5.01	4.99	0.21	5.04	5.04	4.66	4.59	3.18	2.87	5.04	0.00	0.0%
SC-207.05	10 min	4354	6.71	6.61	0.23	6.63	6.63	6.36	5.92	4.17	3.86	6.63	0.00	-0.1%
SC-207.06	10 min	4364	7.26	7.22	0.15	7.24	7.17	6.91	6.35	4.49	4.20	7.17	-0.07	-1.0%
SC-207.07	10 min	4364	11.79	11.83	0.65	11.88	11.13	11.89	9.67	7.71	7.51	11.89	0.01	0.1%
SC-207.08	10 min	4364	17.90	17.67	0.54	17.71	17.59	17.59	15.35	11.60	11.36	17.59	-0.12	-0.7%
SC-207.09	10 min	4354	20.34	20.19	0.49	20.21	20.21	20.72	17.44	13.63	13.25	20.72	0.51	2.5%
SC-207.10	15 min	4401	21.00	20.90	1.20	20.99	20.68	21.26	17.99	14.32	13.81	21.26	0.27	1.3%
SC-207.11	15 min	4358	22.64	22.67	0.88	22.68	21.92	22.68	19.17	15.83	15.08	22.68	0.00	0.0%
SC-207.12	15 min	4358	32.62	32.68	1.75	33.00	31.92	33.00	27.88	22.12	21.49	33.00	0.00	0.0%
SC-207.13	15 min	4358	34.35	34.46	1.59	34.84	33.40	34.84	29.23	23.80	23.04	34.84	0.00	0.0%
SC-207.14	15 min	4358	35.52	35.63	1.34	35.82	34.27	35.82	30.21	25.18	24.09	35.82	0.00	0.0%
SC-208.01	10 min	4366	0.90	0.91	0.08	0.95	0.99	0.71	0.91	0.58	0.43	0.99	0.04	3.9%
SC-208.02	10 min	4363	1.28	1.30	0.11	1.33	1.39	1.07	1.29	0.83	0.65	1.39	0.06	4.3%
SC-208.03	10 min	4363	1.71	1.74	0.14	1.76	1.84	1.45	1.70	1.12	0.89	1.84	0.08	4.3%
SC-208.04	10 min	4365	2.69	2.73	0.16	2.74	2.79	2.38	2.54	1.67	1.45	2.79	0.05	1.9%
SC-208.05	10 min	4365	3.09	3.12	0.10	3.12	3.16	2.83	2.83	1.93	1.71	3.16	0.04	1.2%
SC-209.01	10 min	4363	0.57	0.58	0.05	0.59	0.61	0.47	0.57	0.37	0.30	0.61	0.02	3.7%
SC-21.01	10 min	4363	0.68	0.69	0.06	0.71	0.74	0.55	0.68	0.43	0.34	0.74	0.03	3.7%
SC-210.01	10 min	4363	1.25	1.28	0.11	1.31	1.37	1.05	1.26	0.80	0.64	1.37	0.05	4.2%
SC-210.02	10 min	4363	1.74	1.77	0.14	1.78	1.85	1.51	1.72	1.13	0.92	1.85	0.07	4.2%
SC-211.01	20 min	4371	0.46	0.46	0.04	0.46	0.29	0.42	0.46	0.36	0.34	0.46	0.00	-0.1%
SC-211.02	25 min	4462	0.99	0.99	0.07	1.00	0.53	0.80	0.94	0.78	0.79	0.94	-0.06	-6.0%
SC-211.03	25 min	4462	1.58	1.59	0.16	1.60	1.03	1.42	1.54	1.29	1.31	1.54	-0.06	-3.9%
SC-211.04	20 min	4399	1.88	1.86	0.15	1.86	1.40	1.81	1.75	1.53	1.57	1.81	-0.05	-2.5%
SC-212.01	1 hour	4405	0.17	0.17	0.01	0.17	0.08	0.11	0.13	0.17	0.17	0.17	0.00	-1.9%
SC-212.02	20 min	4433	0.35	0.35	0.04	0.35	0.23	0.33	0.34	0.30	0.30	0.34	-0.01	-1.7%
SC-213.01	10 min	4363	0.52	0.53	0.04	0.54	0.57	0.42	0.53	0.33	0.25	0.57	0.03	4.9%
SC-213.02	10 min	4363	0.86	0.88	0.07	0.89	0.93	0.73	0.86	0.55	0.44	0.93	0.04	4.4%
SC-214.01	10 min	4363	0.64	0.65	0.05	0.67	0.70	0.53	0.65	0.41	0.32	0.70	0.03	3.8%
SC-214.02	10 min	4363	1.38	1.40	0.12	1.45	1.51	1.14	1.40	0.88	0.69	1.51	0.06	3.9%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-215.01	10 min	4363	0.51	0.52	0.04	0.53	0.55	0.44	0.51	0.33	0.27	0.55	0.02	4.0%
SC-215.02	10 min	4365	0.93	0.94	0.07	0.95	0.98	0.82	0.91	0.61	0.50	0.98	0.03	2.8%
SC-216.01	10 min	4366	0.48	0.48	0.04	0.50	0.53	0.37	0.49	0.31	0.23	0.53	0.03	5.6%
SC-216.02	10 min	4363	1.46	1.48	0.12	1.53	1.59	1.18	1.48	0.95	0.72	1.59	0.06	4.1%
SC-216.03	10 min	4363	2.30	2.35	0.20	2.38	2.47	1.93	2.30	1.51	1.19	2.47	0.09	3.9%
SC-216.04	10 min	4366	3.21	3.16	0.17	3.22	3.44	2.90	3.12	2.05	1.76	3.44	0.22	6.7%
SC-217.01	10 min	4366	0.34	0.34	0.03	0.36	0.38	0.26	0.35	0.22	0.16	0.38	0.02	4.2%
SC-218.01	10 min	4366	0.26	0.26	0.02	0.27	0.29	0.20	0.27	0.17	0.12	0.29	0.02	6.0%
SC-219.01	10 min	4366	0.34	0.35	0.03	0.36	0.38	0.27	0.35	0.22	0.17	0.38	0.02	4.3%
SC-22.01	10 min	4363	0.38	0.38	0.03	0.39	0.41	0.31	0.38	0.24	0.19	0.41	0.02	5.0%
SC-220.01	10 min	4363	0.53	0.54	0.04	0.55	0.58	0.44	0.53	0.34	0.26	0.58	0.03	4.6%
SC-221.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.41	0.49	0.31	0.24	0.53	0.02	4.0%
SC-221.02	10 min	4361	1.05	1.07	0.07	1.07	1.09	0.93	1.02	0.68	0.56	1.09	0.02	2.0%
SC-221.03	10 min	4365	1.29	1.31	0.09	1.32	1.36	1.15	1.26	0.84	0.70	1.36	0.04	2.7%
SC-221.04	10 min	4365	1.89	1.92	0.15	1.93	1.98	1.67	1.84	1.23	1.02	1.98	0.05	2.7%
SC-221.05	10 min	4361	2.44	2.46	0.16	2.47	2.50	2.21	2.29	1.57	1.34	2.50	0.03	1.4%
SC-221.06	10 min	4365	2.57	2.59	0.15	2.60	2.64	2.33	2.42	1.66	1.44	2.64	0.04	1.6%
SC-222.01	10 min	4363	0.53	0.54	0.05	0.55	0.57	0.44	0.53	0.34	0.27	0.57	0.02	4.5%
SC-222.02	10 min	4368	0.84	0.86	0.06	0.86	0.89	0.74	0.83	0.54	0.45	0.89	0.03	3.4%
SC-222.03	10 min	4364	1.83	1.80	0.18	1.82	1.70	1.82	1.71	1.20	1.09	1.82	0.00	0.1%
SC-223.01	10 min	4363	0.23	0.23	0.02	0.24	0.25	0.19	0.23	0.14	0.11	0.25	0.01	2.3%
SC-224.01	20 min	4433	0.62	0.59	0.08	0.59	0.49	0.67	0.54	0.43	0.39	0.67	0.08	14.4%
SC-225.01	10 min	4363	0.42	0.43	0.04	0.43	0.45	0.35	0.42	0.27	0.22	0.45	0.02	5.4%
SC-226.01	10 min	4366	0.31	0.31	0.03	0.33	0.34	0.25	0.32	0.20	0.15	0.34	0.01	3.5%
SC-226.02	10 min	4361	0.73	0.73	0.05	0.74	0.75	0.63	0.70	0.47	0.38	0.75	0.01	1.3%
SC-226.03	10 min	4354	1.50	1.52	0.10	1.54	1.54	1.35	1.43	0.97	0.81	1.54	0.00	-0.2%
SC-226.04	10 min	4365	2.26	2.28	0.16	2.29	2.35	2.01	2.18	1.48	1.23	2.35	0.06	2.7%
SC-226.05	10 min	4361	8.91	8.99	0.61	9.01	9.23	8.08	8.51	5.76	5.05	9.23	0.22	2.4%
SC-226.06	10 min	4365	9.82	9.88	0.48	9.93	10.15	9.07	9.24	6.30	5.64	10.15	0.22	2.2%
SC-226.07	10 min	4363	10.60	10.62	0.40	10.76	11.04	9.99	9.94	6.93	6.23	11.04	0.28	2.6%
SC-226.08	10 min	4363	11.07	11.08	0.41	11.30	11.57	10.44	10.36	7.27	6.55	11.57	0.27	2.4%
SC-227.01	10 min	4363	0.16	0.17	0.01	0.17	0.18	0.13	0.16	0.10	0.08	0.18	0.01	4.5%
SC-228.01	10 min	4363	0.35	0.35	0.03	0.36	0.38	0.29	0.35	0.22	0.17	0.38	0.02	4.8%
SC-229.01	10 min	4363	0.24	0.25	0.02	0.25	0.26	0.20	0.24	0.15	0.12	0.26	0.01	5.4%
SC-23.01	10 min	4363	0.50	0.50	0.04	0.52	0.54	0.40	0.50	0.32	0.25	0.54	0.02	3.7%
SC-23.02	10 min	4354	1.46	1.46	0.10	1.48	1.48	1.29	1.37	0.93	0.77	1.48	0.00	-0.2%
SC-23.03	10 min	4354	1.81	1.82	0.12	1.85	1.85	1.63	1.71	1.16	0.97	1.85	0.00	-0.2%
SC-230.01	10 min	4363	0.24	0.24	0.02	0.25	0.26	0.20	0.24	0.15	0.13	0.26	0.01	3.0%
SC-231.01	10 min	4363	0.26	0.27	0.02	0.28	0.29	0.22	0.27	0.17	0.14	0.29	0.01	2.7%
SC-232.01	10 min	4363	0.67	0.68	0.06	0.69	0.71	0.56	0.66	0.44	0.35	0.71	0.02	3.5%
SC-232.02	10 min	4365	1.05	1.07	0.08	1.08	1.11	0.91	1.03	0.68	0.56	1.11	0.03	2.4%
SC-232.03	10 min	4361	2.43	2.45	0.18	2.46	2.52	2.15	2.34	1.58	1.32	2.52	0.06	2.3%
SC-233.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.39	0.47	0.30	0.24	0.51	0.02	4.2%
SC-233.02	10 min	4365	0.77	0.78	0.06	0.79	0.81	0.68	0.75	0.50	0.41	0.81	0.02	2.7%
SC-234.01	10 min	4363	0.67	0.69	0.06	0.70	0.73	0.57	0.68	0.43	0.35	0.73	0.03	4.9%
SC-234.02	10 min	4365	1.31	1.32	0.09	1.32	1.36	1.16	1.26	0.85	0.71	1.36	0.04	3.0%
SC-234.03	10 min	4361	3.83	3.86	0.27	3.90	3.94	3.50	3.65	2.47	2.17	3.94	0.04	1.0%
SC-235.01	10 min	4363	0.25	0.25	0.02	0.26	0.27	0.20	0.25	0.16	0.12	0.27	0.01	5.4%
SC-236.01	10 min	4363	0.32	0.32	0.03	0.33	0.35	0.26	0.32	0.20	0.16	0.35	0.02	5.2%
SC-236.02	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.40	0.49	0.31	0.25	0.53	0.02	3.5%
SC-237.01	10 min	4363	0.43	0.43	0.04	0.44	0.46	0.36	0.43	0.27	0.22	0.46	0.02	5.4%
SC-237.02	10 min	4354	0.90	0.88	0.06	0.89	0.89	0.91	0.89	0.59	0.57	0.91	0.02	2.1%
SC-238.01	10 min	4363	0.28	0.28	0.02	0.29	0.31	0.23	0.28	0.18	0.14	0.31	0.02	5.2%
SC-238.02	10 min	4365	0.64	0.65	0.05	0.65	0.67	0.56	0.62	0.41	0.34	0.67	0.02	2.9%
SC-239.01	10 min	4363	0.36	0.37	0.03	0.37	0.39	0.30	0.36	0.23	0.18	0.39	0.02	5.2%
SC-24.01	10 min	4363	0.43	0.44	0.04	0.45	0.47	0.36	0.44	0.28	0.22	0.47	0.02	4.7%
SC-240.01	20 min	4429	0.90	0.89	0.08	0.90	0.56	0.81	0.87	0.69	0.64	0.87	-0.03	-3.1%
SC-240.02	20 min	4371	1.33	1.29	0.13	1.30	0.98	1.26	1.30	0.99	0.95	1.30	-0.01	-0.4%
SC-241.01	15 min	4401	3.98	3.71	0.66	3.74	3.33	4.40	3.44	2.65	2.49	4.40	0.66	17.5%
SC-242.01	10 min	4363	0.50	0.51	0.04	0.52	0.54	0.42	0.50	0.33	0.26	0.54	0.02	4.2%
SC-242.02	10 min	4365	1.29	1.31	0.10	1.32	1.36	1.12	1.26	0.85	0.70	1.36	0.04	2.7%
SC-242.03	10 min	4365	1.92	1.94	0.15	1.95	2.00	1.67	1.86	1.26	1.05	2.00	0.05	2.8%
SC-242.04	10 min	4365	2.03	2.06	0.16	2.07	2.13	1.77	1.97	1.34	1.11	2.13	0.06	2.9%
SC-242.05	10 min	4354	4.50	4.51	0.29	4.56	4.56	4.04	4.17	2.89	2.46	4.56	0.00	0.0%
SC-242.06	10 min	4354	5.90	5.75	0.35	5.81	5.81	5.49	5.31	3.70	3.30	5.81	0.00	0.1%
SC-242.07	10 min	4354	6.31	6.12	0.39	6.13	6.13	5.95	5.54	3.94	3.61	6.13	0.00	-0.1%
SC-242.08	15 min	4401	11.63	11.18	1.54	11.33	11.06	12.24	9.53	7.69	7.22	12.24	0.90	8.0%
SC-243.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.38	0.47	0.30	0.23	0.51	0.02	4.8%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-243.02	10 min	4363	1.73	1.77	0.14	1.77	1.85	1.49	1.71	1.12	0.90	1.85	0.08	4.4%
SC-244.01	10 min	4363	0.66	0.67	0.06	0.70	0.73	0.54	0.67	0.42	0.33	0.73	0.03	3.7%
SC-245.01	10 min	4363	0.35	0.35	0.03	0.37	0.38	0.29	0.35	0.22	0.17	0.38	0.01	3.0%
SC-246.01	10 min	4363	0.23	0.24	0.02	0.24	0.25	0.20	0.23	0.15	0.12	0.25	0.01	5.5%
SC-246.02	10 min	4364	0.61	0.60	0.06	0.61	0.56	0.60	0.56	0.39	0.35	0.60	-0.02	-2.5%
SC-247.01	10 min	4365	0.64	0.64	0.04	0.64	0.66	0.57	0.62	0.39	0.34	0.66	0.02	3.5%
SC-247.02	15 min	4401	1.51	1.39	0.30	1.41	1.33	1.61	1.39	0.97	0.93	1.61	0.20	14.5%
SC-248.01	15 min	4401	0.75	0.68	0.14	0.70	0.67	0.81	0.65	0.48	0.45	0.81	0.11	15.6%
SC-249.01	20 min	4433	0.18	0.18	0.01	0.18	0.11	0.16	0.17	0.14	0.13	0.17	-0.01	-6.5%
SC-249.02	20 min	4371	0.55	0.54	0.07	0.55	0.48	0.55	0.55	0.38	0.36	0.55	0.00	-0.1%
SC-249.03	10 min	4354	1.13	1.10	0.08	1.11	1.11	1.12	1.09	0.74	0.72	1.12	0.01	0.5%
SC-249.04	10 min	4354	2.83	2.81	0.18	2.85	2.85	2.66	2.65	1.83	1.69	2.85	0.00	0.1%
SC-249.05	10 min	4354	8.33	8.14	0.53	8.23	8.23	7.92	7.48	5.26	4.86	8.23	-0.01	-0.1%
SC-249.06	15 min	4401	13.45	12.73	1.71	12.89	12.47	14.34	11.51	9.03	8.77	14.34	1.45	11.3%
SC-25.01	10 min	4363	1.31	1.33	0.11	1.38	1.43	1.08	1.33	0.84	0.65	1.43	0.05	3.9%
SC-25.02	10 min	4368	1.87	1.91	0.14	1.91	1.98	1.62	1.84	1.20	0.97	1.98	0.07	3.8%
SC-25.03	10 min	4363	2.04	2.07	0.16	2.09	2.18	1.78	2.02	1.32	1.08	2.18	0.09	4.3%
SC-25.04	10 min	4365	3.40	3.45	0.26	3.47	3.58	3.04	3.31	2.19	1.85	3.58	0.11	3.0%
SC-250.01	10 min	4363	0.15	0.15	0.01	0.16	0.16	0.12	0.15	0.10	0.08	0.16	0.00	1.1%
SC-251.01	10 min	4363	0.36	0.37	0.03	0.37	0.39	0.31	0.36	0.24	0.19	0.39	0.02	5.7%
SC-252.01	10 min	4363	0.42	0.43	0.03	0.43	0.45	0.38	0.41	0.26	0.24	0.45	0.02	3.9%
SC-252.02	10 min	4363	0.78	0.80	0.06	0.81	0.85	0.69	0.78	0.49	0.43	0.85	0.04	4.4%
SC-253.01	10 min	4363	0.62	0.63	0.05	0.65	0.68	0.52	0.63	0.40	0.32	0.68	0.03	4.3%
SC-253.02	10 min	4363	2.26	2.30	0.18	2.30	2.40	1.97	2.23	1.47	1.21	2.40	0.10	4.3%
SC-253.03	10 min	4363	2.74	2.80	0.23	2.81	2.92	2.36	2.71	1.80	1.48	2.92	0.11	4.0%
SC-254.01	10 min	4363	0.63	0.64	0.05	0.65	0.68	0.53	0.63	0.40	0.33	0.68	0.03	4.4%
SC-255.01	10 min	4368	0.59	0.60	0.04	0.60	0.62	0.54	0.58	0.36	0.34	0.62	0.02	3.7%
SC-256.01	10 min	4363	0.52	0.53	0.04	0.53	0.56	0.46	0.52	0.32	0.28	0.56	0.03	4.8%
SC-257.01	10 min	4363	0.29	0.30	0.02	0.30	0.31	0.25	0.29	0.18	0.15	0.31	0.01	4.7%
SC-258.01	10 min	4365	1.34	1.36	0.09	1.37	1.41	1.17	1.31	0.82	0.70	1.41	0.04	2.6%
SC-258.02	15 min	4401	2.13	1.95	0.39	1.97	1.84	2.23	1.98	1.37	1.30	2.23	0.26	13.2%
SC-259.01	10 min	4363	0.58	0.59	0.05	0.60	0.63	0.47	0.58	0.38	0.30	0.63	0.03	4.6%
SC-259.02	10 min	4365	1.21	1.23	0.09	1.23	1.27	1.04	1.18	0.80	0.65	1.27	0.04	3.1%
SC-259.03	10 min	4365	1.71	1.74	0.14	1.75	1.80	1.48	1.67	1.12	0.92	1.80	0.05	2.7%
SC-259.04	10 min	4365	3.11	3.16	0.25	3.18	3.28	2.67	3.04	2.05	1.68	3.28	0.09	3.0%
SC-259.05	10 min	4365	3.80	3.85	0.29	3.85	3.97	3.30	3.67	2.50	2.07	3.97	0.12	3.0%
SC-259.06	10 min	4365	4.90	4.96	0.37	4.99	5.13	4.24	4.74	3.22	2.68	5.13	0.14	2.8%
SC-259.07	10 min	4356	6.33	6.25	0.28	6.27	6.66	5.84	5.95	3.99	3.60	6.66	0.39	6.3%
SC-259.08	10 min	4356	7.47	7.45	0.25	7.47	7.74	7.00	6.82	4.64	4.21	7.74	0.27	3.6%
SC-259.09	10 min	4356	18.84	18.76	0.38	18.80	19.28	19.13	16.64	12.82	12.02	19.28	0.48	2.6%
SC-259.10	10 min	4356	19.16	19.11	0.36	19.14	19.57	19.45	16.92	13.16	12.28	19.57	0.43	2.2%
SC-26.01	10 min	4363	0.40	0.41	0.03	0.42	0.44	0.34	0.41	0.26	0.20	0.44	0.02	4.0%
SC-260.01	10 min	4363	0.38	0.39	0.03	0.40	0.42	0.32	0.38	0.24	0.19	0.42	0.02	4.0%
SC-261.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.41	0.49	0.32	0.26	0.53	0.02	4.0%
SC-262.01	10 min	4363	0.55	0.56	0.05	0.58	0.61	0.46	0.56	0.35	0.28	0.61	0.03	4.4%
SC-262.02	10 min	4363	1.01	1.03	0.08	1.04	1.08	0.87	1.01	0.66	0.53	1.08	0.04	4.1%
SC-263.01	10 min	4363	0.59	0.60	0.05	0.61	0.64	0.50	0.59	0.37	0.30	0.64	0.03	4.5%
SC-264.01	10 min	4363	0.33	0.33	0.03	0.34	0.35	0.27	0.33	0.21	0.16	0.35	0.01	4.4%
SC-265.01	10 min	4363	0.43	0.43	0.04	0.44	0.46	0.37	0.43	0.27	0.22	0.46	0.02	4.9%
SC-265.02	20 min	4371	1.07	1.04	0.16	1.06	0.99	1.08	1.06	0.71	0.68	1.08	0.02	2.0%
SC-265.03	20 min	4404	1.82	1.77	0.20	1.83	1.58	1.90	1.61	1.26	1.22	1.90	0.07	4.0%
SC-265.04	15 min	4401	8.52	8.28	0.78	8.37	8.44	8.79	7.32	5.93	5.73	8.79	0.42	5.1%
SC-266.01	10 min	4365	0.54	0.55	0.04	0.55	0.57	0.52	0.52	0.34	0.33	0.57	0.02	3.0%
SC-266.02	10 min	4361	1.04	1.05	0.07	1.06	1.08	0.99	1.00	0.66	0.62	1.08	0.01	1.4%
SC-266.03	10 min	4365	1.26	1.28	0.10	1.29	1.33	1.14	1.23	0.82	0.75	1.33	0.04	2.8%
SC-266.04	10 min	4354	4.79	4.76	0.31	4.83	4.83	4.65	4.58	3.12	3.00	4.83	0.00	-0.1%
SC-266.05	10 min	4365	5.48	5.50	0.22	5.53	5.65	5.36	5.09	3.72	3.57	5.65	0.12	2.1%
SC-267.01	10 min	4363	0.52	0.53	0.04	0.55	0.57	0.44	0.53	0.33	0.27	0.57	0.02	3.4%
SC-268.01	10 min	4363	0.88	0.89	0.08	0.91	0.95	0.75	0.88	0.56	0.46	0.95	0.04	4.5%
SC-268.02	10 min	4365	2.28	2.31	0.16	2.31	2.38	2.13	2.21	1.45	1.35	2.38	0.07	2.9%
SC-269.01	20 min	4371	0.39	0.38	0.06	0.38	0.36	0.40	0.38	0.26	0.25	0.40	0.02	4.2%
SC-27.01	10 min	4361	0.42	0.43	0.03	0.43	0.44	0.41	0.40	0.26	0.24	0.44	0.01	1.3%
SC-270.01	20 min	4429	0.43	0.41	0.06	0.41	0.35	0.46	0.40	0.29	0.27	0.46	0.05	11.0%
SC-271.01	20 min	4371	0.26	0.25	0.04	0.25	0.22	0.28	0.25	0.17	0.17	0.28	0.03	12.4%
SC-272.01	20 min	4429	0.64	0.61	0.08	0.62	0.50	0.65	0.61	0.44	0.41	0.65	0.03	4.8%
SC-272.02	20 min	4371	1.31	1.25	0.20	1.27	1.10	1.36	1.27	0.87	0.83	1.36	0.09	6.8%
SC-272.03	20 min	4371	2.12	2.01	0.34	2.05	1.81	2.21	2.05	1.37	1.33	2.21	0.16	7.6%
SC-273.01	10 min	4364	0.60	0.61	0.07	0.62	0.52	0.60	0.54	0.39	0.35	0.60	-0.02	-2.6%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-274.01	20 min	4433	0.30	0.29	0.03	0.29	0.22	0.27	0.31	0.23	0.23	0.31	0.02	6.0%
SC-274.02	10 min	4354	1.24	1.25	0.08	1.27	1.27	1.16	1.17	0.81	0.76	1.27	0.00	-0.1%
SC-274.03	10 min	4365	2.98	3.02	0.22	3.04	3.13	2.67	2.90	1.92	1.68	3.13	0.09	3.0%
SC-274.04	10 min	4365	3.85	3.91	0.28	3.94	4.05	3.44	3.76	2.49	2.16	4.05	0.11	2.9%
SC-274.05	10 min	4354	4.98	4.83	0.38	4.91	4.91	4.59	4.55	3.22	2.86	4.91	0.00	0.1%
SC-275.01	10 min	4363	0.57	0.58	0.05	0.59	0.62	0.48	0.57	0.37	0.29	0.62	0.03	5.2%
SC-276.01	10 min	4363	0.42	0.42	0.04	0.44	0.45	0.34	0.42	0.27	0.21	0.45	0.01	3.3%
SC-277.01	10 min	4368	0.53	0.54	0.04	0.54	0.56	0.46	0.52	0.33	0.28	0.56	0.02	3.7%
SC-278.01	10 min	4363	0.32	0.33	0.03	0.34	0.35	0.27	0.32	0.20	0.16	0.35	0.01	2.8%
SC-278.02	15 min	4392	4.00	3.65	0.79	3.66	3.56	4.31	3.62	2.51	2.46	4.31	0.65	17.9%
SC-279.01	15 min	4400	0.55	0.51	0.09	0.52	0.52	0.57	0.51	0.35	0.34	0.57	0.05	9.5%
SC-279.02	10 min	4364	3.87	3.94	0.40	3.98	3.40	4.00	3.52	2.51	2.32	4.00	0.02	0.6%
SC-28.01	20 min	4399	0.36	0.36	0.04	0.36	0.24	0.36	0.32	0.26	0.24	0.36	0.00	0.1%
SC-28.02	20 min	4371	0.83	0.80	0.11	0.80	0.70	0.85	0.80	0.57	0.54	0.85	0.05	6.1%
SC-28.03	20 min	4371	1.16	1.12	0.17	1.13	1.07	1.18	1.13	0.78	0.74	1.18	0.05	4.4%
SC-28.04	10 min	4354	2.47	2.42	0.17	2.45	2.45	2.38	2.30	1.57	1.47	2.45	0.00	0.0%
SC-280.01	10 min	4361	0.53	0.53	0.03	0.53	0.54	0.50	0.51	0.32	0.30	0.54	0.01	2.7%
SC-29.01	10 min	4363	0.40	0.41	0.03	0.42	0.44	0.33	0.41	0.26	0.20	0.44	0.02	4.0%
SC-29.02	10 min	4365	1.10	1.12	0.08	1.12	1.15	0.97	1.07	0.71	0.59	1.15	0.03	2.9%
SC-3.01	15 min	4393	0.47	0.45	0.08	0.46	0.47	0.49	0.45	0.30	0.29	0.49	0.03	5.9%
SC-3.02	20 min	4371	1.57	1.50	0.23	1.51	1.44	1.62	1.51	1.04	0.99	1.62	0.11	7.1%
SC-30.01	10 min	4363	0.71	0.72	0.06	0.75	0.78	0.59	0.72	0.45	0.36	0.78	0.03	4.0%
SC-30.02	10 min	4361	1.30	1.31	0.09	1.31	1.34	1.14	1.25	0.83	0.68	1.34	0.03	2.6%
SC-30.03	10 min	4365	1.79	1.81	0.12	1.81	1.86	1.60	1.73	1.16	0.96	1.86	0.05	2.9%
SC-30.04	10 min	4365	2.28	2.30	0.17	2.32	2.38	2.03	2.21	1.48	1.23	2.38	0.06	2.8%
SC-31.01	10 min	4354	0.49	0.48	0.03	0.49	0.49	0.45	0.46	0.30	0.27	0.49	0.00	0.2%
SC-31.02	10 min	4354	1.01	0.98	0.07	0.99	0.99	0.95	0.92	0.64	0.57	0.99	0.00	-0.1%
SC-32.01	20 min	4433	0.43	0.40	0.06	0.40	0.37	0.48	0.39	0.29	0.27	0.48	0.08	19.2%
SC-32.02	20 min	4428	0.62	0.59	0.08	0.59	0.49	0.67	0.54	0.43	0.40	0.67	0.08	13.4%
SC-33.01	10 min	4363	0.60	0.61	0.05	0.63	0.65	0.50	0.61	0.38	0.30	0.65	0.02	3.9%
SC-33.02	10 min	4368	1.37	1.40	0.11	1.40	1.46	1.21	1.35	0.89	0.73	1.46	0.06	4.0%
SC-34.01	10 min	4361	0.48	0.48	0.03	0.48	0.49	0.41	0.45	0.29	0.25	0.49	0.01	1.9%
SC-34.02	10 min	4354	0.97	0.97	0.06	0.98	0.98	0.87	0.91	0.60	0.52	0.98	0.00	0.0%
SC-34.03	10 min	4363	1.12	1.13	0.08	1.15	1.20	1.04	1.11	0.71	0.62	1.20	0.05	3.9%
SC-35.01	10 min	4366	0.43	0.43	0.04	0.45	0.48	0.34	0.44	0.28	0.21	0.48	0.03	5.7%
SC-35.02	10 min	4363	1.19	1.22	0.10	1.23	1.28	0.99	1.19	0.79	0.60	1.28	0.05	4.1%
SC-35.03	10 min	4363	1.91	1.95	0.16	1.96	2.03	1.57	1.90	1.27	0.96	2.03	0.07	3.8%
SC-35.04	10 min	4363	2.04	2.08	0.17	2.10	2.19	1.68	2.04	1.36	1.03	2.19	0.09	4.1%
SC-36.01	10 min	4363	0.91	0.93	0.08	0.95	0.99	0.77	0.92	0.58	0.47	0.99	0.04	4.4%
SC-36.02	10 min	4363	1.64	1.67	0.14	1.72	1.79	1.39	1.66	1.04	0.84	1.79	0.07	4.0%
SC-37.01	10 min	4363	0.35	0.36	0.03	0.37	0.38	0.30	0.35	0.22	0.18	0.38	0.01	3.3%
SC-37.02	10 min	4368	0.99	1.01	0.07	1.01	1.05	0.86	0.97	0.63	0.51	1.05	0.04	3.7%
SC-38.01	10 min	4363	0.41	0.42	0.03	0.43	0.44	0.35	0.41	0.26	0.21	0.44	0.01	3.2%
SC-39.01	10 min	4363	0.24	0.24	0.02	0.25	0.26	0.20	0.24	0.15	0.12	0.26	0.01	3.4%
SC-4.01	20 min	4433	0.55	0.52	0.08	0.53	0.43	0.58	0.51	0.38	0.35	0.58	0.05	9.2%
SC-40.01	10 min	4363	0.55	0.56	0.05	0.58	0.61	0.44	0.56	0.36	0.27	0.61	0.03	4.7%
SC-41.01	10 min	4366	0.36	0.36	0.03	0.38	0.40	0.28	0.37	0.23	0.17	0.40	0.02	5.3%
SC-42.01	10 min	4363	1.23	1.25	0.11	1.30	1.35	0.98	1.25	0.79	0.60	1.35	0.05	4.0%
SC-43.01	10 min	4366	0.27	0.27	0.02	0.28	0.30	0.20	0.28	0.17	0.13	0.30	0.02	6.1%
SC-44.01	10 min	4363	0.85	0.86	0.07	0.89	0.93	0.71	0.86	0.54	0.43	0.93	0.04	4.5%
SC-44.02	10 min	4365	1.36	1.39	0.10	1.40	1.44	1.19	1.34	0.88	0.72	1.44	0.04	2.7%
SC-44.03	10 min	4365	1.86	1.89	0.14	1.90	1.96	1.65	1.81	1.20	0.99	1.96	0.06	3.0%
SC-44.04	10 min	4361	2.83	2.86	0.21	2.87	2.93	2.55	2.72	1.81	1.55	2.93	0.06	2.1%
SC-44.05	10 min	4365	4.95	5.00	0.30	5.01	5.13	4.53	4.71	3.15	2.76	5.13	0.12	2.4%
SC-44.06	10 min	4365	5.26	5.31	0.27	5.33	5.44	4.89	4.95	3.36	3.00	5.44	0.11	2.1%
SC-44.07	10 min	4356	5.71	5.61	0.22	5.61	5.54	5.85	4.59	3.45	3.04	5.85	0.23	4.2%
SC-44.08	15 min	4392	7.21	7.00	0.79	7.07	7.06	7.55	5.71	4.37	3.82	7.55	0.48	6.8%
SC-44.09	15 min	4392	7.76	7.64	0.68	7.67	7.44	8.03	6.00	4.74	4.24	8.03	0.36	4.7%
SC-44.10	20 min	4787	0.99	0.79	0.29	0.79	0.65	0.67	0.68	0.73	0.74	0.74	-0.05	-6.3%
SC-44.11	20 min	4528	9.96	10.09	1.28	10.46	1.37	2.79	5.94	9.17	9.98	9.98	-0.48	-4.6%
SC-44.12	20 min	4654	0.55	0.54	0.04	0.54	0.00	0.00	0.00	0.12	0.51	0.51	-0.03	-5.7%
SC-44.13	20 min	4654	0.45	0.44	0.02	0.44	0.09	0.16	0.20	0.25	0.46	0.46	0.02	3.8%
SC-44.14	20 min	4758	1.34	1.36	0.06	1.37	0.23	0.53	0.78	1.42	1.48	1.48	0.11	8.1%
SC-44.15	20 min	4865	2.38	2.38	0.05	2.40	2.18	2.24	2.24	2.45	2.46	2.46	0.06	2.3%
SC-44.16	20 min	4865	2.43	2.42	0.05	2.44	2.24	2.32	2.32	2.49	2.50	2.50	0.06	2.6%
SC-44.17	20 min	4429	7.52	7.30	0.56	7.43	7.00	7.83	6.93	5.70	5.79	7.83	0.40	5.3%
SC-44.18	20 min	4429	7.80	7.68	0.52	7.71	7.12	7.96	7.08	5.95	6.17	7.96	0.25	3.2%
SC-44.19	25 min	4462	8.69	8.70	0.59	8.73	8.14	8.88	7.35	6.60	6.94	8.88	0.15	1.7%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-44.20	25 min	4466	8.45	8.48	0.38	8.56	7.40	8.39	7.41	6.75	7.09	8.39	-0.17	-2.0%
SC-45.01	10 min	4368	0.63	0.64	0.05	0.64	0.66	0.57	0.62	0.39	0.34	0.66	0.02	3.9%
SC-46.01	10 min	4363	0.51	0.52	0.04	0.54	0.56	0.43	0.52	0.33	0.26	0.56	0.02	3.2%
SC-46.02	10 min	4361	0.88	0.89	0.06	0.89	0.91	0.79	0.85	0.56	0.47	0.91	0.02	2.5%
SC-46.03	10 min	4365	1.32	1.33	0.09	1.33	1.37	1.18	1.27	0.85	0.71	1.37	0.04	3.2%
SC-46.04	10 min	4365	1.49	1.51	0.11	1.51	1.56	1.33	1.44	0.97	0.81	1.56	0.05	3.1%
SC-47.01	10 min	4363	0.83	0.85	0.07	0.87	0.91	0.70	0.84	0.53	0.43	0.91	0.04	4.2%
SC-48.01	10 min	4363	0.63	0.64	0.05	0.66	0.69	0.53	0.64	0.40	0.32	0.69	0.03	4.0%
SC-48.02	10 min	4361	1.00	1.01	0.07	1.01	1.04	0.88	0.96	0.64	0.53	1.04	0.03	2.9%
SC-49.01	10 min	4363	0.71	0.72	0.06	0.74	0.77	0.58	0.72	0.45	0.35	0.77	0.03	4.3%
SC-5.01	10 min	4365	0.44	0.45	0.03	0.45	0.46	0.40	0.43	0.27	0.24	0.46	0.01	3.2%
SC-50.01	10 min	4357	0.25	0.24	0.02	0.24	0.24	0.23	0.23	0.16	0.14	0.24	0.00	1.1%
SC-51.01	10 min	4368	0.25	0.25	0.02	0.25	0.26	0.21	0.25	0.16	0.13	0.26	0.01	5.8%
SC-52.01	10 min	4363	0.25	0.26	0.02	0.26	0.27	0.20	0.25	0.16	0.12	0.27	0.01	3.8%
SC-53.01	10 min	4363	0.61	0.62	0.05	0.64	0.66	0.51	0.61	0.39	0.31	0.66	0.02	3.5%
SC-53.02	10 min	4354	1.25	1.26	0.09	1.28	1.28	1.12	1.19	0.79	0.67	1.28	0.00	-0.3%
SC-53.03	10 min	4365	1.50	1.52	0.11	1.53	1.58	1.35	1.46	0.98	0.82	1.58	0.05	3.1%
SC-54.01	10 min	4363	0.50	0.50	0.04	0.52	0.54	0.41	0.50	0.31	0.25	0.54	0.02	3.6%
SC-54.02	10 min	4354	0.96	0.95	0.07	0.97	0.97	0.85	0.90	0.60	0.51	0.97	0.00	-0.3%
SC-55.01	10 min	4363	0.77	0.78	0.06	0.80	0.84	0.64	0.78	0.49	0.38	0.84	0.04	4.6%
SC-56.01	10 min	4354	0.37	0.37	0.02	0.37	0.37	0.32	0.35	0.23	0.19	0.37	0.00	0.6%
SC-57.01	10 min	4364	0.26	0.26	0.03	0.26	0.24	0.25	0.23	0.17	0.15	0.25	-0.01	-2.6%
SC-58.01	10 min	4363	0.50	0.51	0.04	0.52	0.54	0.42	0.50	0.32	0.26	0.54	0.02	4.1%
SC-59.01	10 min	4363	0.67	0.68	0.06	0.69	0.72	0.58	0.67	0.42	0.36	0.72	0.03	4.9%
SC-59.02	10 min	4354	1.29	1.30	0.09	1.32	1.32	1.16	1.22	0.82	0.71	1.32	-0.01	-0.4%
SC-59.03	10 min	4354	1.87	1.88	0.13	1.91	1.91	1.68	1.77	1.19	1.02	1.91	0.00	-0.1%
SC-59.04	10 min	4361	2.39	2.41	0.17	2.43	2.47	2.15	2.28	1.54	1.31	2.47	0.04	1.5%
SC-59.05	10 min	4354	5.10	5.07	0.30	5.14	5.14	4.88	4.71	3.30	2.97	5.14	0.00	-0.1%
SC-59.06	10 min	4354	5.90	5.80	0.30	5.86	5.86	5.77	5.27	3.81	3.47	5.86	0.00	-0.1%
SC-59.07	10 min	4354	9.96	9.71	0.60	9.77	9.77	9.86	8.91	6.44	6.03	9.86	0.09	0.9%
SC-59.08	20 min	4429	9.78	9.47	1.08	9.60	8.57	10.16	8.38	6.71	6.56	10.16	0.56	5.8%
SC-59.09	25 min	4462	11.67	11.68	1.10	11.77	9.81	12.12	9.22	8.51	8.18	12.12	0.35	3.0%
SC-59.10	45 min	4528	9.69	9.52	1.04	9.90	2.74	6.85	8.06	8.66	8.85	8.85	-1.05	-10.6%
SC-6.01	10 min	4366	0.57	0.58	0.05	0.60	0.63	0.46	0.58	0.37	0.28	0.63	0.03	5.0%
SC-60.01	15 min	4400	0.44	0.42	0.08	0.43	0.42	0.47	0.42	0.28	0.28	0.47	0.04	8.3%
SC-60.02	10 min	4354	1.83	1.78	0.12	1.80	1.80	1.80	1.68	1.15	1.07	1.80	0.00	0.2%
SC-61.01	10 min	4354	0.96	0.95	0.06	0.96	0.96	0.92	0.89	0.60	0.55	0.96	0.00	0.3%
SC-62.01	10 min	4363	0.59	0.61	0.05	0.62	0.64	0.50	0.60	0.38	0.30	0.64	0.02	3.5%
SC-63.01	15 min	4400	0.33	0.31	0.06	0.31	0.30	0.34	0.30	0.21	0.20	0.34	0.03	9.3%
SC-64.01	10 min	4363	0.44	0.45	0.04	0.46	0.48	0.37	0.45	0.28	0.23	0.48	0.02	5.1%
SC-64.02	10 min	4354	1.51	1.50	0.10	1.52	1.52	1.39	1.41	0.96	0.84	1.52	0.00	0.1%
SC-64.03	10 min	4354	2.82	2.84	0.19	2.88	2.88	2.58	2.67	1.81	1.57	2.88	0.00	0.1%
SC-64.04	10 min	4354	3.95	3.89	0.26	3.95	3.95	3.78	3.63	2.55	2.34	3.95	0.00	-0.1%
SC-65.01	10 min	4363	0.34	0.35	0.03	0.36	0.37	0.29	0.35	0.22	0.18	0.37	0.01	3.8%
SC-66.01	10 min	4354	0.29	0.28	0.02	0.28	0.29	0.26	0.26	0.18	0.15	0.29	0.00	1.8%
SC-66.02	20 min	4371	0.66	0.62	0.10	0.62	0.55	0.69	0.62	0.43	0.41	0.69	0.07	12.0%
SC-67.01	10 min	4363	0.50	0.51	0.04	0.52	0.55	0.41	0.51	0.32	0.25	0.55	0.03	4.9%
SC-68.01	10 min	4363	0.68	0.69	0.06	0.71	0.74	0.57	0.69	0.43	0.34	0.74	0.03	4.7%
SC-68.02	10 min	4361	1.31	1.32	0.09	1.33	1.35	1.15	1.25	0.83	0.69	1.35	0.02	1.2%
SC-68.03	10 min	4363	2.36	2.40	0.19	2.41	2.51	2.04	2.33	1.53	1.23	2.51	0.10	4.3%
SC-69.01	10 min	4366	0.59	0.59	0.05	0.62	0.65	0.46	0.60	0.38	0.28	0.65	0.03	4.3%
SC-7.01	10 min	4363	0.76	0.78	0.06	0.78	0.81	0.70	0.75	0.47	0.43	0.81	0.03	4.3%
SC-70.01	10 min	4363	0.54	0.55	0.05	0.56	0.59	0.44	0.54	0.34	0.27	0.59	0.03	4.6%
SC-70.02	10 min	4361	0.87	0.88	0.06	0.88	0.90	0.75	0.84	0.55	0.45	0.90	0.02	2.6%
SC-71.01	10 min	4363	0.68	0.69	0.06	0.71	0.74	0.57	0.69	0.43	0.34	0.74	0.03	4.2%
SC-71.02	10 min	4361	1.31	1.32	0.09	1.34	1.35	1.17	1.26	0.84	0.70	1.35	0.01	0.9%
SC-72.01	10 min	4363	0.73	0.74	0.06	0.77	0.80	0.61	0.74	0.47	0.37	0.80	0.03	3.9%
SC-73.01	10 min	4363	0.59	0.60	0.05	0.62	0.64	0.51	0.60	0.38	0.31	0.64	0.02	4.0%
SC-74.01	10 min	4363	0.68	0.69	0.06	0.72	0.75	0.57	0.69	0.44	0.34	0.75	0.03	3.7%
SC-75.01	10 min	4354	0.42	0.40	0.03	0.41	0.41	0.39	0.38	0.26	0.23	0.41	0.00	-0.3%
SC-75.02	10 min	4364	1.60	1.57	0.14	1.58	1.51	1.64	1.50	1.04	0.97	1.64	0.05	3.5%
SC-75.03	10 min	4354	2.37	2.32	0.14	2.35	2.35	2.35	2.18	1.48	1.39	2.35	0.00	0.1%
SC-75.04	10 min	4354	4.12	4.06	0.26	4.12	4.12	3.93	3.82	2.61	2.38	4.12	0.00	0.0%
SC-76.01	15 min	4401	0.53	0.48	0.10	0.48	0.46	0.57	0.50	0.34	0.33	0.57	0.09	18.0%
SC-77.01	10 min	4363	0.80	0.82	0.07	0.84	0.88	0.67	0.81	0.51	0.40	0.88	0.04	4.5%
SC-77.02	10 min	4363	1.22	1.24	0.10	1.27	1.33	1.01	1.23	0.78	0.61	1.33	0.06	4.6%
SC-77.03	10 min	4368	1.72	1.75	0.13	1.76	1.82	1.49	1.69	1.10	0.90	1.82	0.06	3.5%
SC-78.01	10 min	4363	0.76	0.77	0.06	0.80	0.83	0.63	0.77	0.48	0.38	0.83	0.03	3.8%

ARR2019 Results for 2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	90 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4358	4371	4585	4499			
SC-79.01	10 min	4363	0.82	0.84	0.07	0.85	0.88	0.70	0.82	0.54	0.45	0.88	0.03	3.4%
SC-79.02	10 min	4363	1.53	1.56	0.12	1.56	1.62	1.28	1.51	1.02	0.83	1.62	0.06	4.0%
SC-79.03	10 min	4365	3.34	3.38	0.25	3.39	3.48	2.94	3.21	2.17	1.83	3.48	0.09	2.7%
SC-8.01	10 min	4368	0.65	0.66	0.05	0.66	0.68	0.59	0.63	0.40	0.36	0.68	0.02	3.7%
SC-8.02	10 min	4354	1.57	1.57	0.11	1.59	1.59	1.46	1.48	0.99	0.88	1.59	0.00	0.1%
SC-8.03	10 min	4361	4.04	4.08	0.28	4.10	4.18	3.68	3.87	2.61	2.26	4.18	0.08	1.9%
SC-8.04	10 min	4365	7.12	7.21	0.53	7.25	7.46	6.41	6.91	4.62	3.96	7.46	0.21	2.9%
SC-8.05	10 min	4363	7.75	7.87	0.53	7.91	8.21	7.05	7.56	5.05	4.41	8.21	0.30	3.8%
SC-8.06	10 min	4363	8.05	8.11	0.48	8.28	8.56	7.32	7.83	5.22	4.65	8.56	0.28	3.4%
SC-80.01	10 min	4363	0.79	0.81	0.07	0.83	0.87	0.66	0.80	0.50	0.40	0.87	0.04	4.2%
SC-80.02	10 min	4361	1.59	1.61	0.11	1.62	1.65	1.41	1.53	1.02	0.84	1.65	0.03	1.8%
SC-81.01	10 min	4361	0.60	0.61	0.04	0.61	0.62	0.54	0.58	0.37	0.32	0.62	0.01	1.9%
SC-81.02	10 min	4361	1.76	1.78	0.12	1.78	1.82	1.58	1.69	1.10	0.94	1.82	0.04	2.5%
SC-82.01	10 min	4363	0.71	0.72	0.06	0.74	0.77	0.60	0.71	0.45	0.36	0.77	0.03	3.8%
SC-83.01	10 min	4363	0.45	0.45	0.04	0.47	0.49	0.38	0.45	0.28	0.23	0.49	0.02	3.2%
SC-84.01	10 min	4363	0.67	0.68	0.05	0.69	0.72	0.58	0.66	0.42	0.34	0.72	0.03	3.8%
SC-84.02	10 min	4363	1.63	1.66	0.14	1.69	1.76	1.43	1.63	1.05	0.87	1.76	0.07	4.0%
SC-84.03	10 min	4363	2.16	2.20	0.17	2.20	2.29	1.91	2.12	1.38	1.15	2.29	0.09	4.1%
SC-84.04	10 min	4368	2.56	2.61	0.20	2.63	2.71	2.26	2.51	1.65	1.37	2.71	0.08	3.0%
SC-84.05	10 min	4363	3.03	3.08	0.19	3.10	3.21	2.77	2.93	1.94	1.68	3.21	0.11	3.5%
SC-84.06	10 min	4363	3.36	3.39	0.15	3.42	3.51	3.11	3.16	2.14	1.87	3.51	0.09	2.5%
SC-85.01	10 min	4363	0.42	0.42	0.03	0.43	0.45	0.34	0.42	0.26	0.21	0.45	0.02	4.7%
SC-86.01	10 min	4363	0.63	0.64	0.05	0.66	0.69	0.53	0.63	0.40	0.32	0.69	0.03	3.9%
SC-86.02	10 min	4363	1.22	1.25	0.10	1.27	1.32	1.07	1.23	0.79	0.71	1.32	0.05	3.9%
SC-87.01	10 min	4363	0.92	0.93	0.08	0.96	1.01	0.76	0.93	0.59	0.46	1.01	0.05	4.8%
SC-87.02	10 min	4363	1.57	1.60	0.12	1.60	1.67	1.36	1.55	1.02	0.82	1.67	0.07	4.4%
SC-88.01	10 min	4363	0.41	0.42	0.04	0.43	0.45	0.35	0.42	0.26	0.21	0.45	0.02	4.5%
SC-88.02	10 min	4363	0.68	0.69	0.05	0.69	0.72	0.61	0.67	0.43	0.39	0.72	0.03	4.1%
SC-89.01	10 min	4363	0.45	0.46	0.04	0.47	0.49	0.38	0.45	0.29	0.23	0.49	0.02	4.5%
SC-89.02	10 min	4363	0.50	0.51	0.04	0.51	0.53	0.44	0.49	0.32	0.27	0.53	0.02	4.1%
SC-9.01	10 min	4363	0.59	0.60	0.05	0.62	0.65	0.50	0.60	0.38	0.30	0.65	0.03	4.5%
SC-90.01	10 min	4363	0.18	0.19	0.02	0.19	0.20	0.16	0.18	0.12	0.10	0.20	0.01	3.3%
SC-91.01	10 min	4366	0.53	0.54	0.05	0.56	0.59	0.42	0.55	0.34	0.26	0.59	0.03	5.2%
SC-91.02	10 min	4363	1.11	1.14	0.10	1.15	1.20	0.92	1.11	0.73	0.56	1.20	0.05	4.4%
SC-92.01	10 min	4368	0.53	0.54	0.04	0.55	0.57	0.48	0.52	0.33	0.29	0.57	0.02	2.9%
SC-92.02	10 min	4354	1.51	1.50	0.10	1.52	1.52	1.42	1.42	0.95	0.87	1.52	0.00	0.0%
SC-93.01	10 min	4363	0.58	0.59	0.05	0.60	0.63	0.50	0.58	0.37	0.30	0.63	0.03	5.0%
SC-94.01	10 min	4366	0.64	0.65	0.05	0.67	0.70	0.51	0.65	0.41	0.31	0.70	0.03	4.7%
SC-94.02	10 min	4363	1.50	1.53	0.12	1.54	1.60	1.27	1.49	0.98	0.77	1.60	0.06	4.2%
SC-95.01	10 min	4366	0.38	0.38	0.03	0.40	0.42	0.29	0.39	0.24	0.18	0.42	0.02	3.9%
SC-95.02	10 min	4363	0.92	0.93	0.08	0.96	1.00	0.74	0.93	0.59	0.45	1.00	0.04	4.1%
SC-96.01	10 min	4366	0.42	0.43	0.04	0.44	0.46	0.34	0.43	0.27	0.21	0.46	0.02	5.3%
SC-97.01	10 min	4363	0.28	0.29	0.03	0.30	0.31	0.22	0.29	0.18	0.14	0.31	0.01	4.4%
SC-97.02	10 min	4361	1.66	1.68	0.12	1.68	1.72	1.46	1.60	1.09	0.90	1.72	0.04	2.3%
SC-98.01	10 min	4363	0.49	0.50	0.04	0.52	0.54	0.42	0.50	0.31	0.25	0.54	0.02	3.5%
SC-99.01	10 min	4363	0.48	0.49	0.04	0.51	0.53	0.39	0.49	0.31	0.24	0.53	0.02	3.1%
SC-99.02	10 min	4354	1.32	1.31	0.09	1.33	1.33	1.16	1.23	0.84	0.70	1.33	0.00	-0.2%
SC-99.03	10 min	4354	2.27	2.26	0.15	2.29	2.29	2.05	2.12	1.45	1.22	2.29	0.00	0.1%
SC-99.04	10 min	4365	5.98	6.05	0.42	6.08	6.25	5.46	5.76	3.86	3.35	6.25	0.17	2.7%
Dummy1	15 min	4392	29.89	29.57	2.15	29.65	28.74	30.86	24.58	20.49	19.26	30.86	1.21	4.1%
Dummy2	25 min	4394	47.29	47.40	3.06	47.50	38.68	41.86	49.28	37.39	36.85	49.28	1.78	3.7%
Dummy3	30 min	4498	92.46	92.02	6.67	92.21	75.15	84.17	81.97	85.68	83.10	85.68	-6.53	-7.1%
DummyOut	1.50 hour	4586	101.69	99.98	9.16	100.14	75.59	84.63	82.98	100.41	84.17	100.41	0.27	0.3%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-1.01	10 min	4365	0.91	0.92	0.07	0.93	0.96	0.73	0.62	0.50	0.74	0.96	0.03	2.7%
SC-1.02	10 min	4361	1.98	1.99	0.13	2.00	2.04	1.61	1.35	1.09	1.63	2.04	0.04	1.9%
SC-1.03	10 min	4365	2.33	2.37	0.16	2.38	2.45	1.88	1.59	1.29	1.90	2.45	0.07	3.0%
SC-1.04	10 min	4354	6.27	6.18	0.42	6.27	6.27	5.21	4.37	3.48	5.28	6.27	0.00	0.0%
SC-1.05	10 min	4354	6.71	6.73	0.41	6.82	6.82	5.70	4.76	3.77	5.73	6.82	0.00	0.0%
SC-1.06	10 min	4354	7.72	7.71	0.42	7.79	7.79	6.71	5.50	4.29	6.66	7.79	0.00	0.0%
SC-1.07	10 min	4361	7.83	7.87	0.40	7.91	7.98	6.89	5.62	4.37	6.79	7.98	0.07	0.9%
SC-1.08	45 min	4528	8.50	8.47	0.81	8.71	3.81	7.22	9.18	7.74	9.67	9.67	0.96	11.0%
SC-1.09	45 min	4533	9.13	9.22	0.59	9.35	3.92	7.36	9.35	8.67	10.04	10.04	0.69	7.4%
SC-1.10	45 min	4533	9.23	9.30	0.54	9.36	4.42	7.37	9.36	8.83	10.08	10.08	0.72	7.7%
SC-1.11	10 min	4354	13.75	13.48	0.64	13.59	13.59	11.80	13.81	12.24	13.71	13.81	0.22	1.6%
SC-1.12	10 min	4354	17.16	16.87	0.68	16.99	16.99	14.89	15.97	13.59	16.02	16.99	0.00	0.0%
SC-1.13	10 min	4354	19.38	19.34	0.38	19.43	19.43	17.45	17.79	14.62	18.07	19.43	0.00	0.0%
SC-1.14	10 min	4354	23.18	23.10	0.36	23.13	23.13	21.14	20.44	16.29	20.96	23.13	0.00	0.0%
SC-1.15	10 min	4357	25.18	25.01	0.41	25.02	24.92	23.32	21.95	17.34	22.65	24.92	-0.10	-0.4%
SC-1.16	15 min	4403	28.32	28.62	0.60	28.64	26.49	26.73	24.67	19.55	26.27	26.73	-1.91	-6.7%
SC-1.17	15 min	4358	28.79	28.95	0.58	28.95	26.73	27.04	25.08	19.90	26.77	27.04	-1.91	-6.6%
SC-1.18	30 min	4498	18.13	17.80	0.92	18.10	15.70	17.57	18.58	17.16	18.44	18.58	0.48	2.7%
SC-1.19	1 hour	4558	22.87	22.70	0.68	22.75	10.94	15.81	22.45	22.75	21.43	22.75	0.00	0.0%
SC-1.20	1 hour	4556	20.80	20.73	0.32	20.73	10.68	14.98	19.90	20.73	19.81	20.73	0.00	0.0%
SC-1.21	1 hour	4556	20.81	20.74	0.32	20.74	10.68	14.98	19.90	20.73	20.06	20.73	-0.01	0.0%
SC-1.22	1.50 hour	4585	20.92	20.91	0.52	20.92	10.70	15.02	19.96	20.80	21.15	21.15	0.23	1.1%
SC-1.23	1.50 hour	4588	23.31	23.43	1.19	23.45	18.96	20.01	21.71	20.83	24.19	24.19	0.73	3.1%
SC-1.24	20 min	4429	31.82	31.15	2.71	31.77	30.21	31.77	31.07	25.73	34.76	34.76	2.99	9.4%
SC-1.25	25 min	4462	32.39	32.11	2.79	32.54	30.58	32.05	31.74	26.37	35.71	35.71	3.17	9.8%
SC-1.26	25 min	4462	34.92	35.18	2.42	35.37	32.18	32.79	33.81	28.43	38.63	38.63	3.26	9.2%
SC-1.27	25 min	4462	35.54	35.90	2.37	35.95	32.65	33.31	34.27	29.00	39.28	39.28	3.33	9.3%
SC-1.28	15 min	4396	46.97	46.93	0.71	47.23	39.97	44.67	42.96	37.32	50.74	50.74	3.51	7.4%
SC-1.29	25 min	4459	49.67	49.53	2.24	49.56	40.62	49.42	44.84	40.45	54.05	54.05	4.49	9.1%
SC-1.30	25 min	4460	50.64	50.48	2.21	50.66	40.84	50.45	46.51	41.29	54.95	54.95	4.29	8.5%
SC-1.31	25 min	4459	51.23	51.10	2.22	51.58	41.01	51.10	47.75	42.07	55.52	55.52	3.94	7.6%
SC-1.32	25 min	4459	52.19	52.41	2.26	52.64	41.27	51.98	49.39	43.26	56.34	56.34	3.70	7.0%
SC-1.33	30 min	4504	54.20	54.08	3.31	54.45	41.61	53.01	51.99	46.28	57.51	57.51	3.06	5.6%
SC-1.34	30 min	4504	54.48	54.32	3.17	54.52	41.63	53.08	52.25	47.02	57.70	57.70	3.18	5.8%
SC-1.35	30 min	4495	54.84	54.64	3.02	54.65	41.68	53.21	52.60	47.73	57.91	57.91	3.26	6.0%
SC-1.36	30 min	4495	57.10	56.77	2.12	57.49	41.92	53.87	57.60	51.86	59.18	59.18	1.69	2.9%
SC-10.01	10 min	4363	0.94	0.95	0.08	0.97	1.01	0.68	0.56	0.47	0.67	1.01	0.04	3.8%
SC-100.01	10 min	4363	1.09	1.11	0.09	1.14	1.19	0.77	0.64	0.55	0.75	1.19	0.05	4.4%
SC-100.02	10 min	4363	1.90	1.93	0.16	1.95	2.04	1.41	1.16	0.96	1.37	2.04	0.09	4.4%
SC-101.01	10 min	4365	1.17	1.18	0.08	1.18	1.21	0.88	0.72	0.58	0.86	1.21	0.03	2.9%
SC-101.02	10 min	4354	2.06	2.02	0.14	2.05	2.05	1.61	1.32	1.05	1.59	2.05	0.00	0.0%
SC-102.01	10 min	4363	0.90	0.92	0.08	0.94	0.98	0.65	0.53	0.45	0.64	0.98	0.04	4.4%
SC-102.02	10 min	4354	3.47	3.45	0.23	3.50	3.50	2.70	2.21	1.74	2.63	3.50	0.00	-0.1%
SC-103.01	10 min	4363	0.61	0.62	0.05	0.63	0.66	0.44	0.36	0.31	0.42	0.66	0.03	4.2%
SC-103.02	10 min	4354	2.15	2.13	0.16	2.17	2.17	1.62	1.35	1.06	1.58	2.17	0.00	-0.1%
SC-104.01	10 min	4363	0.55	0.56	0.04	0.56	0.59	0.40	0.33	0.28	0.38	0.59	0.03	4.6%
SC-105.01	10 min	4363	0.59	0.60	0.05	0.60	0.63	0.43	0.35	0.29	0.41	0.63	0.03	4.2%
SC-105.02	10 min	4354	1.41	1.39	0.10	1.41	1.41	1.07	0.89	0.70	1.05	1.41	0.00	-0.1%
SC-105.03	10 min	4354	3.28	3.24	0.24	3.29	3.29	2.50	2.07	1.63	2.44	3.29	0.00	-0.2%
SC-105.04	10 min	4354	4.43	4.38	0.31	4.44	4.44	3.41	2.82	2.19	3.33	4.44	0.00	0.0%
SC-105.05	10 min	4354	5.33	5.18	0.38	5.26	5.26	4.24	3.47	2.71	4.15	5.26	0.00	0.0%
SC-105.06	10 min	4354	5.66	5.50	0.40	5.54	5.54	4.79	3.90	3.03	4.70	5.54	0.00	0.1%
SC-105.07	15 min	4400	8.30	8.07	0.99	8.11	8.26	7.46	5.98	4.65	7.24	8.26	0.15	1.9%
SC-105.08	15 min	4400	9.35	9.31	0.77	9.32	9.54	8.72	6.94	5.30	8.37	9.54	0.22	2.4%
SC-105.09	10 min	4356	12.35	12.26	0.17	12.28	12.57	11.71	9.10	6.73	10.95	12.57	0.29	2.4%
SC-106.01	10 min	4363	0.42	0.43	0.03	0.44	0.46	0.31	0.25	0.21	0.30	0.46	0.02	3.6%
SC-107.01	10 min	4368	0.75	0.76	0.06	0.76	0.79	0.54	0.45	0.37	0.53	0.79	0.03	4.5%
SC-108.01	10 min	4363	0.54	0.55	0.05	0.56	0.59	0.39	0.32	0.27	0.37	0.59	0.03	4.6%
SC-109.01	10 min	4363	0.70	0.72	0.06	0.73	0.76	0.51	0.42	0.35	0.50	0.76	0.03	3.5%
SC-11.01	10 min	4363	0.58	0.59	0.05	0.59	0.62	0.42	0.35	0.29	0.41	0.62	0.03	4.7%
SC-110.01	10 min	4363	0.64	0.66	0.06	0.67	0.70	0.47	0.39	0.32	0.46	0.70	0.03	4.3%
SC-110.02	10 min	4354	1.49	1.48	0.10	1.50	1.50	1.17	0.96	0.76	1.15	1.50	0.00	-0.1%
SC-110.03	10 min	4354	1.61	1.61	0.10	1.64	1.64	1.29	1.05	0.84	1.27	1.64	0.00	-0.2%
SC-111.01	20 min	4433	0.47	0.44	0.06	0.45	0.39	0.46	0.35	0.26	0.44	0.46	0.01	2.7%
SC-112.01	10 min	4363	1.09	1.11	0.09	1.13	1.18	0.80	0.67	0.55	0.80	1.18	0.05	4.0%
SC-113.01	10 min	4363	0.40	0.41	0.03	0.41	0.42	0.29	0.24	0.20	0.29	0.42	0.01	3.6%
SC-113.02	10 min	4354	1.31	1.28	0.09	1.30	1.30	1.04	0.87	0.69	1.05	1.30	0.00	-0.1%
SC-114.01	10 min	4365	0.70	0.71	0.05	0.71	0.73	0.56	0.47	0.38	0.57	0.73	0.02	3.0%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-114.02	10 min	4354	1.12	1.13	0.07	1.14	1.14	0.89	0.75	0.60	0.90	1.14	0.00	0.1%
SC-114.03	10 min	4365	2.31	2.34	0.16	2.34	2.41	1.81	1.51	1.22	1.81	2.41	0.07	2.8%
SC-115.01	10 min	4363	0.62	0.64	0.05	0.65	0.68	0.46	0.38	0.31	0.45	0.68	0.03	3.9%
SC-115.02	10 min	4361	1.02	1.03	0.07	1.04	1.05	0.78	0.64	0.52	0.77	1.05	0.01	1.3%
SC-116.01	10 min	4363	0.62	0.63	0.05	0.64	0.67	0.45	0.38	0.31	0.45	0.67	0.03	4.5%
SC-116.02	10 min	4365	1.01	1.03	0.07	1.03	1.06	0.77	0.64	0.52	0.77	1.06	0.03	3.1%
SC-117.01	10 min	4363	0.37	0.37	0.03	0.38	0.39	0.27	0.22	0.18	0.26	0.39	0.01	3.5%
SC-118.01	10 min	4363	0.79	0.80	0.07	0.83	0.87	0.55	0.47	0.40	0.54	0.87	0.04	4.3%
SC-119.01	10 min	4363	1.22	1.25	0.10	1.26	1.32	0.90	0.75	0.61	0.90	1.32	0.06	4.7%
SC-119.02	10 min	4363	3.06	3.12	0.24	3.14	3.28	2.30	1.91	1.56	2.28	3.28	0.14	4.4%
SC-12.01	10 min	4363	0.67	0.68	0.05	0.69	0.72	0.49	0.41	0.33	0.48	0.72	0.03	3.7%
SC-12.02	10 min	4363	1.16	1.18	0.10	1.20	1.25	0.84	0.69	0.58	0.82	1.25	0.05	4.4%
SC-12.03	10 min	4365	2.14	2.17	0.16	2.19	2.25	1.62	1.33	1.09	1.60	2.25	0.06	2.6%
SC-12.04	10 min	4368	2.73	2.77	0.20	2.79	2.87	2.09	1.73	1.40	2.07	2.87	0.08	2.9%
SC-120.01	10 min	4363	0.55	0.56	0.05	0.57	0.59	0.40	0.33	0.27	0.39	0.59	0.02	3.6%
SC-121.01	10 min	4363	0.69	0.70	0.06	0.71	0.74	0.51	0.42	0.34	0.50	0.74	0.03	4.1%
SC-122.01	10 min	4363	1.10	1.11	0.10	1.16	1.20	0.77	0.65	0.56	0.74	1.20	0.04	3.8%
SC-122.02	10 min	4368	1.75	1.79	0.14	1.79	1.86	1.30	1.07	0.89	1.27	1.86	0.07	3.7%
SC-122.03	10 min	4365	2.37	2.40	0.19	2.41	2.49	1.79	1.48	1.19	1.75	2.49	0.08	3.2%
SC-123.01	10 min	4363	0.56	0.57	0.05	0.58	0.61	0.40	0.33	0.28	0.39	0.61	0.03	5.1%
SC-123.02	10 min	4361	1.60	1.61	0.12	1.62	1.65	1.21	1.00	0.81	1.19	1.65	0.03	2.1%
SC-123.03	10 min	4354	10.94	10.75	0.68	10.91	10.91	9.53	8.05	6.39	9.61	10.91	-0.01	0.0%
SC-123.04	10 min	4354	11.14	11.03	0.68	11.19	11.19	9.66	8.20	6.51	9.80	11.19	0.00	0.0%
SC-123.05	10 min	4361	14.05	14.09	0.80	14.12	14.44	12.22	10.30	8.15	12.23	14.44	0.32	2.3%
SC-123.06	10 min	4368	14.40	14.49	0.74	14.54	14.95	12.73	10.64	8.37	12.59	14.95	0.41	2.8%
SC-123.07	10 min	4363	15.34	15.34	0.72	15.60	16.07	13.86	11.57	9.01	13.66	16.07	0.47	3.0%
SC-124.01	20 min	4429	0.73	0.70	0.08	0.70	0.54	0.70	0.57	0.45	0.69	0.70	0.00	0.6%
SC-124.02	20 min	4371	4.66	4.51	0.56	4.51	3.96	4.41	3.66	2.89	4.39	4.41	-0.10	-2.3%
SC-125.01	20 min	4433	0.99	0.96	0.12	0.97	0.77	0.98	0.76	0.59	0.94	0.98	0.01	0.7%
SC-126.01	10 min	4363	0.52	0.53	0.04	0.54	0.56	0.38	0.31	0.26	0.37	0.56	0.02	4.1%
SC-126.02	20 min	4433	1.33	1.29	0.15	1.30	1.01	1.28	1.07	0.85	1.27	1.28	-0.02	-1.8%
SC-126.03	20 min	4371	2.42	2.36	0.35	2.40	2.25	2.23	1.89	1.51	2.25	2.25	-0.15	-6.2%
SC-127.01	10 min	4363	1.22	1.23	0.11	1.28	1.33	0.85	0.72	0.61	0.82	1.33	0.05	4.2%
SC-127.02	10 min	4363	3.30	3.36	0.29	3.43	3.57	2.40	2.00	1.69	2.34	3.57	0.14	4.1%
SC-128.01	10 min	4363	1.20	1.22	0.11	1.25	1.31	0.86	0.71	0.60	0.84	1.31	0.06	4.6%
SC-129.01	10 min	4354	0.61	0.60	0.04	0.61	0.61	0.48	0.40	0.32	0.48	0.61	0.00	0.0%
SC-13.01	10 min	4363	0.61	0.62	0.05	0.63	0.66	0.45	0.37	0.31	0.44	0.66	0.03	4.7%
SC-130.01	10 min	4363	0.90	0.91	0.08	0.94	0.97	0.65	0.53	0.45	0.63	0.97	0.03	3.7%
SC-131.01	10 min	4363	0.35	0.36	0.03	0.37	0.39	0.25	0.21	0.18	0.24	0.39	0.02	4.4%
SC-132.01	10 min	4363	0.50	0.51	0.04	0.52	0.54	0.37	0.31	0.25	0.36	0.54	0.02	3.6%
SC-133.01	10 min	4363	0.36	0.37	0.03	0.38	0.40	0.26	0.21	0.18	0.25	0.40	0.02	4.4%
SC-134.01	10 min	4363	0.31	0.31	0.02	0.32	0.33	0.23	0.19	0.16	0.23	0.33	0.01	2.8%
SC-134.02	10 min	4357	1.01	1.01	0.06	1.02	0.94	0.89	0.71	0.52	0.87	0.94	-0.08	-7.9%
SC-134.03	10 min	4364	2.03	2.06	0.17	2.07	1.84	1.83	1.46	1.11	1.81	1.84	-0.23	-11.1%
SC-134.04	10 min	4364	2.88	2.91	0.24	2.93	2.62	2.62	2.10	1.59	2.60	2.62	-0.31	-10.6%
SC-135.01	10 min	4363	0.25	0.25	0.02	0.25	0.26	0.18	0.15	0.12	0.17	0.26	0.01	5.0%
SC-135.02	10 min	4361	1.37	1.38	0.10	1.39	1.41	1.04	0.87	0.70	1.04	1.41	0.02	1.7%
SC-135.03	10 min	4361	1.80	1.82	0.12	1.83	1.86	1.39	1.16	0.93	1.38	1.86	0.03	1.5%
SC-135.04	10 min	4361	3.99	4.03	0.28	4.06	4.12	3.10	2.59	2.07	3.09	4.12	0.06	1.6%
SC-135.05	10 min	4361	4.55	4.59	0.26	4.60	4.69	3.61	2.97	2.34	3.54	4.69	0.09	2.0%
SC-135.06	10 min	4354	7.52	7.44	0.43	7.50	7.50	6.06	4.98	3.85	5.99	7.50	0.00	0.0%
SC-136.01	10 min	4363	0.73	0.74	0.06	0.76	0.79	0.53	0.44	0.37	0.52	0.79	0.03	4.3%
SC-137.01	10 min	4363	0.75	0.76	0.06	0.77	0.81	0.55	0.46	0.37	0.55	0.81	0.04	4.6%
SC-138.01	10 min	4368	0.90	0.92	0.07	0.92	0.95	0.67	0.58	0.47	0.68	0.95	0.03	3.5%
SC-139.01	10 min	4363	0.88	0.90	0.07	0.90	0.94	0.66	0.55	0.45	0.66	0.94	0.04	4.7%
SC-139.02	10 min	4368	1.07	1.09	0.08	1.09	1.13	0.82	0.68	0.55	0.81	1.13	0.04	3.8%
SC-14.01	10 min	4363	1.07	1.09	0.09	1.11	1.16	0.77	0.63	0.53	0.75	1.16	0.05	4.2%
SC-14.02	10 min	4365	1.66	1.68	0.12	1.69	1.74	1.25	1.03	0.84	1.23	1.74	0.05	3.1%
SC-14.03	10 min	4365	2.17	2.20	0.16	2.21	2.28	1.66	1.37	1.10	1.64	2.28	0.06	2.9%
SC-140.01	10 min	4363	0.62	0.63	0.05	0.64	0.67	0.46	0.38	0.31	0.45	0.67	0.03	4.0%
SC-141.01	10 min	4364	1.01	1.03	0.13	1.04	0.86	0.83	0.68	0.51	0.82	0.86	-0.18	-17.1%
SC-142.01	20 min	4433	1.60	1.53	0.20	1.55	1.29	1.57	1.21	0.94	1.52	1.57	0.02	1.3%
SC-143.01	20 min	4367	0.60	0.60	0.07	0.61	0.53	0.56	0.50	0.40	0.58	0.58	-0.03	-5.5%
SC-143.02	10 min	4364	5.00	4.89	0.46	4.94	4.70	4.14	3.55	2.78	4.23	4.70	-0.24	-4.9%
SC-144.01	10 min	4365	0.72	0.73	0.05	0.73	0.75	0.57	0.49	0.39	0.58	0.75	0.02	3.3%
SC-144.02	10 min	4361	1.02	1.03	0.07	1.04	1.06	0.84	0.72	0.58	0.86	1.06	0.02	2.0%
SC-144.03	10 min	4365	1.37	1.37	0.05	1.38	1.41	1.22	1.01	0.80	1.19	1.41	0.03	2.2%
SC-144.04	10 min	4364	2.44	2.43	0.05	2.44	2.40	2.22	1.74	1.31	2.14	2.40	-0.04	-1.7%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-144.05	10 min	4364	4.58	4.58	0.23	4.60	4.35	3.95	3.21	2.40	3.87	4.35	-0.25	-5.5%
SC-145.01	10 min	4363	0.91	0.93	0.08	0.94	0.98	0.66	0.55	0.47	0.65	0.98	0.04	4.8%
SC-145.02	10 min	4368	1.69	1.73	0.15	1.74	1.80	1.24	1.04	0.84	1.21	1.80	0.06	3.6%
SC-146.01	15 min	4401	1.81	1.73	0.23	1.75	1.50	1.80	1.36	1.01	1.72	1.80	0.05	3.0%
SC-147.01	10 min	4364	0.90	0.91	0.10	0.92	0.79	0.74	0.61	0.44	0.74	0.79	-0.13	-14.5%
SC-147.02	10 min	4364	1.22	1.24	0.12	1.25	1.09	1.05	0.86	0.63	1.04	1.09	-0.16	-13.0%
SC-147.03	10 min	4364	3.13	3.16	0.39	3.19	2.69	2.66	2.17	1.65	2.62	2.69	-0.50	-15.5%
SC-148.01	10 min	4368	0.76	0.78	0.06	0.78	0.80	0.56	0.46	0.38	0.55	0.80	0.02	3.1%
SC-148.02	10 min	4364	1.68	1.65	0.20	1.67	1.53	1.34	1.11	0.85	1.31	1.53	-0.15	-8.7%
SC-149.01	10 min	4354	0.55	0.55	0.04	0.56	0.56	0.48	0.43	0.34	0.50	0.56	0.00	-0.3%
SC-149.02	10 min	4364	1.82	1.81	0.21	1.83	1.62	1.49	1.29	0.99	1.52	1.62	-0.21	-11.6%
SC-15.01	10 min	4363	1.09	1.11	0.09	1.13	1.17	0.80	0.67	0.54	0.80	1.17	0.04	3.9%
SC-15.02	10 min	4363	1.43	1.46	0.12	1.48	1.54	1.08	0.90	0.74	1.07	1.54	0.06	4.1%
SC-15.03	10 min	4365	2.28	2.32	0.17	2.33	2.41	1.73	1.46	1.17	1.74	2.41	0.07	3.2%
SC-150.01	10 min	4363	0.65	0.66	0.06	0.68	0.71	0.47	0.39	0.33	0.46	0.71	0.03	3.9%
SC-150.02	10 min	4368	1.28	1.30	0.10	1.31	1.36	0.97	0.81	0.65	0.96	1.36	0.04	3.4%
SC-150.03	10 min	4361	3.27	3.30	0.24	3.32	3.38	2.51	2.09	1.68	2.50	3.38	0.06	1.9%
SC-150.04	10 min	4365	4.24	4.28	0.29	4.30	4.42	3.32	2.75	2.19	3.27	4.42	0.12	2.8%
SC-150.05	10 min	4361	5.90	5.94	0.37	5.94	6.07	4.69	3.89	3.07	4.64	6.07	0.13	2.2%
SC-150.06	10 min	4354	10.88	10.89	0.54	11.00	11.00	8.93	7.34	5.70	8.79	11.00	0.00	0.0%
SC-150.07	10 min	4354	17.16	16.89	0.99	17.06	17.06	14.21	11.69	9.03	14.09	17.06	0.00	0.0%
SC-150.08	2 hours	4618	9.75	9.59	2.23	9.68	0.34	1.20	9.65	9.17	9.34	9.65	-0.03	-0.3%
SC-150.09	2 hours	4618	10.33	10.16	2.36	10.19	2.68	2.15	9.86	9.66	9.69	9.86	-0.33	-3.3%
SC-150.10	2 hours	4618	12.44	12.13	2.80	12.14	6.84	6.33	12.26	11.79	12.06	12.26	0.12	1.0%
SC-150.11	10 min	4354	18.61	18.50	0.71	18.60	18.60	16.16	15.67	15.52	16.25	18.60	0.00	0.0%
SC-150.12	10 min	4354	29.14	29.21	0.96	29.36	29.36	25.61	21.81	19.92	25.61	29.36	0.00	0.0%
SC-150.13	15 min	4392	33.19	33.13	1.34	33.27	33.52	30.10	25.49	21.77	30.25	33.52	0.25	0.7%
SC-150.14	15 min	4407	49.90	49.52	1.51	49.84	47.45	45.52	38.95	30.95	47.40	47.45	-2.39	-4.8%
SC-150.15	15 min	4407	50.49	50.05	1.49	50.19	47.88	46.03	39.46	31.65	48.14	48.14	-2.05	-4.1%
SC-150.16	15 min	4397	52.68	52.58	1.59	52.64	49.58	47.88	41.38	33.82	50.81	50.81	-1.84	-3.5%
SC-150.17	15 min	4398	53.40	53.41	1.75	53.46	50.11	48.52	42.12	35.15	51.81	51.81	-1.65	-3.1%
SC-151.01	10 min	4363	0.87	0.89	0.08	0.91	0.95	0.63	0.52	0.44	0.62	0.95	0.04	4.0%
SC-151.02	10 min	4368	1.35	1.38	0.10	1.38	1.43	1.01	0.84	0.69	1.00	1.43	0.05	3.9%
SC-152.01	10 min	4363	0.77	0.79	0.07	0.80	0.83	0.57	0.48	0.39	0.57	0.83	0.03	4.1%
SC-153.01	10 min	4363	0.62	0.64	0.05	0.65	0.67	0.45	0.40	0.33	0.46	0.67	0.02	3.5%
SC-153.02	10 min	4365	1.50	1.51	0.11	1.52	1.56	1.13	0.98	0.79	1.15	1.56	0.04	2.6%
SC-154.01	10 min	4368	1.17	1.19	0.09	1.19	1.24	0.89	0.76	0.61	0.91	1.24	0.05	4.0%
SC-154.02	10 min	4354	3.93	3.93	0.26	3.98	3.98	3.14	2.68	2.13	3.19	3.98	0.00	-0.1%
SC-155.01	10 min	4357	0.45	0.43	0.03	0.43	0.43	0.35	0.29	0.22	0.35	0.43	0.00	0.4%
SC-155.02	10 min	4354	1.25	1.23	0.08	1.25	1.25	0.99	0.82	0.65	0.99	1.25	0.00	0.2%
SC-156.01	10 min	4363	0.48	0.48	0.04	0.49	0.51	0.35	0.30	0.24	0.36	0.51	0.02	3.8%
SC-157.01	10 min	4368	0.56	0.57	0.04	0.57	0.59	0.42	0.36	0.30	0.42	0.59	0.02	3.8%
SC-158.01	10 min	4363	0.74	0.75	0.06	0.77	0.80	0.54	0.44	0.37	0.53	0.80	0.03	4.3%
SC-158.02	10 min	4368	0.96	0.98	0.07	0.98	1.02	0.72	0.59	0.48	0.71	1.02	0.04	3.7%
SC-158.03	10 min	4361	2.09	2.11	0.14	2.13	2.14	1.61	1.34	1.07	1.61	2.14	0.01	0.7%
SC-158.04	10 min	4365	3.90	3.94	0.30	3.96	4.07	3.00	2.51	2.01	2.99	4.07	0.11	2.9%
SC-159.01	10 min	4363	0.59	0.60	0.05	0.61	0.63	0.43	0.36	0.29	0.42	0.63	0.02	4.0%
SC-16.01	10 min	4363	0.71	0.72	0.06	0.73	0.77	0.51	0.42	0.35	0.50	0.77	0.04	4.9%
SC-160.01	10 min	4363	0.57	0.58	0.05	0.59	0.62	0.41	0.34	0.29	0.40	0.62	0.03	4.6%
SC-160.02	10 min	4365	1.30	1.31	0.09	1.32	1.36	0.99	0.82	0.66	0.98	1.36	0.04	3.0%
SC-161.01	10 min	4363	0.69	0.71	0.06	0.72	0.75	0.50	0.41	0.35	0.49	0.75	0.03	4.8%
SC-161.02	10 min	4368	1.33	1.36	0.10	1.36	1.41	1.00	0.83	0.68	0.99	1.41	0.05	3.6%
SC-162.01	10 min	4363	0.82	0.84	0.07	0.84	0.88	0.61	0.52	0.42	0.61	0.88	0.04	4.3%
SC-163.01	10 min	4364	0.48	0.47	0.04	0.47	0.46	0.40	0.33	0.26	0.40	0.46	-0.01	-3.0%
SC-163.02	10 min	4357	0.93	0.90	0.07	0.90	0.89	0.76	0.63	0.49	0.76	0.89	-0.01	-0.9%
SC-163.03	10 min	4354	1.50	1.46	0.10	1.48	1.48	1.22	1.01	0.80	1.22	1.48	0.00	0.0%
SC-163.04	10 min	4354	2.08	2.08	0.14	2.11	2.11	1.66	1.39	1.10	1.67	2.11	0.00	0.0%
SC-163.05	10 min	4354	3.59	3.60	0.24	3.65	3.65	2.88	2.41	1.91	2.90	3.65	0.00	-0.1%
SC-164.01	10 min	4365	0.71	0.72	0.06	0.72	0.75	0.53	0.46	0.37	0.54	0.75	0.03	3.8%
SC-165.01	10 min	4368	0.61	0.62	0.05	0.62	0.65	0.45	0.39	0.32	0.46	0.65	0.03	4.1%
SC-165.02	10 min	4363	1.57	1.60	0.13	1.60	1.67	1.18	1.01	0.82	1.19	1.67	0.07	4.6%
SC-165.03	10 min	4365	2.04	2.08	0.16	2.09	2.15	1.54	1.34	1.08	1.57	2.15	0.06	3.0%
SC-165.04	10 min	4365	4.42	4.46	0.27	4.46	4.56	3.50	2.92	2.31	3.45	4.56	0.10	2.3%
SC-165.05	10 min	4361	7.42	7.47	0.44	7.50	7.59	5.94	5.02	3.92	5.94	7.59	0.09	1.2%
SC-166.01	10 min	4368	0.55	0.56	0.04	0.56	0.58	0.41	0.35	0.29	0.41	0.58	0.02	4.0%
SC-167.01	10 min	4363	0.82	0.84	0.07	0.85	0.89	0.60	0.49	0.41	0.58	0.89	0.04	4.4%
SC-167.02	10 min	4365	2.11	2.13	0.16	2.15	2.21	1.58	1.31	1.06	1.56	2.21	0.06	2.7%
SC-168.01	10 min	4363	0.67	0.68	0.06	0.70	0.73	0.49	0.41	0.34	0.49	0.73	0.03	3.6%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-169.01	10 min	4368	0.61	0.62	0.05	0.63	0.64	0.46	0.39	0.32	0.46	0.64	0.01	2.3%
SC-169.02	10 min	4365	1.15	1.16	0.08	1.16	1.19	0.88	0.77	0.62	0.91	1.19	0.03	2.9%
SC-169.03	10 min	4368	2.55	2.60	0.20	2.62	2.70	1.92	1.69	1.36	1.98	2.70	0.08	2.9%
SC-17.01	10 min	4363	0.62	0.63	0.05	0.64	0.67	0.45	0.37	0.31	0.44	0.67	0.03	4.7%
SC-17.02	10 min	4365	1.08	1.09	0.08	1.10	1.13	0.82	0.67	0.55	0.81	1.13	0.03	2.9%
SC-17.03	10 min	4361	1.82	1.84	0.13	1.84	1.89	1.39	1.15	0.92	1.37	1.89	0.05	2.6%
SC-17.04	10 min	4354	4.36	4.31	0.31	4.38	4.38	3.37	2.77	2.19	3.31	4.38	0.00	-0.1%
SC-17.05	10 min	4354	6.02	5.93	0.38	6.01	6.01	4.76	3.87	3.02	4.66	6.01	0.00	-0.1%
SC-17.06	10 min	4354	6.79	6.69	0.38	6.75	6.75	5.51	4.47	3.47	5.36	6.75	0.00	0.0%
SC-17.07	10 min	4354	7.22	7.20	0.32	7.26	7.26	6.02	4.88	3.69	5.81	7.26	0.00	-0.1%
SC-170.01	10 min	4363	0.56	0.57	0.05	0.57	0.60	0.41	0.35	0.28	0.41	0.60	0.03	5.0%
SC-171.01	10 min	4363	0.39	0.40	0.03	0.41	0.43	0.27	0.23	0.20	0.26	0.43	0.02	5.2%
SC-172.01	10 min	4363	0.78	0.79	0.07	0.82	0.86	0.56	0.47	0.40	0.53	0.86	0.04	4.6%
SC-172.02	10 min	4363	1.35	1.38	0.11	1.38	1.44	0.99	0.82	0.69	0.97	1.44	0.06	4.1%
SC-173.01	20 min	4433	0.89	0.88	0.07	0.89	0.57	0.87	0.84	0.67	0.94	0.94	0.05	5.1%
SC-173.02	20 min	4433	1.83	1.77	0.20	1.79	1.45	1.74	1.59	1.28	1.79	1.79	0.00	0.2%
SC-173.03	20 min	4371	1.85	1.82	0.20	1.85	1.61	1.75	1.70	1.35	1.91	1.91	0.06	3.1%
SC-173.04	10 min	4354	3.03	3.03	0.19	3.07	3.07	2.77	2.56	2.05	2.89	3.07	0.00	0.1%
SC-173.05	10 min	4363	3.52	3.54	0.15	3.58	3.67	3.17	2.98	2.32	3.35	3.67	0.09	2.6%
SC-174.01	10 min	4363	0.50	0.51	0.04	0.53	0.55	0.35	0.30	0.25	0.35	0.55	0.02	3.4%
SC-175.01	10 min	4363	0.88	0.90	0.08	0.92	0.95	0.64	0.53	0.44	0.63	0.95	0.03	3.6%
SC-175.02	10 min	4368	1.81	1.85	0.14	1.86	1.92	1.37	1.13	0.91	1.35	1.92	0.06	3.0%
SC-175.03	10 min	4365	2.93	2.97	0.23	2.99	3.08	2.24	1.86	1.49	2.22	3.08	0.09	2.9%
SC-175.04	10 min	4365	3.58	3.65	0.27	3.67	3.77	2.86	2.38	1.90	2.83	3.77	0.10	2.8%
SC-175.05	10 min	4368	4.06	4.11	0.20	4.12	4.21	3.33	2.70	2.12	3.25	4.21	0.09	2.1%
SC-176.01	10 min	4354	0.38	0.37	0.02	0.38	0.38	0.35	0.29	0.23	0.35	0.38	0.00	-0.1%
SC-177.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.36	0.29	0.25	0.34	0.53	0.02	4.5%
SC-177.02	10 min	4354	1.33	1.32	0.10	1.34	1.34	1.01	0.83	0.66	0.99	1.34	0.00	0.0%
SC-177.03	10 min	4361	3.60	3.63	0.25	3.68	3.69	2.79	2.33	1.86	2.78	3.69	0.01	0.3%
SC-177.04	10 min	4361	4.94	4.99	0.35	5.02	5.10	3.86	3.18	2.53	3.82	5.10	0.08	1.6%
SC-178.01	10 min	4363	1.08	1.10	0.09	1.12	1.16	0.80	0.66	0.54	0.79	1.16	0.04	3.8%
SC-178.02	10 min	4361	1.64	1.66	0.12	1.66	1.71	1.25	1.05	0.84	1.25	1.71	0.05	2.9%
SC-179.01	10 min	4363	0.88	0.89	0.08	0.91	0.95	0.64	0.52	0.44	0.63	0.95	0.04	4.6%
SC-18.01	10 min	4363	0.69	0.70	0.05	0.71	0.73	0.50	0.41	0.34	0.49	0.73	0.02	3.4%
SC-18.02	10 min	4354	1.10	1.09	0.08	1.11	1.11	0.84	0.69	0.54	0.82	1.11	-0.01	-0.5%
SC-180.01	10 min	4363	0.85	0.87	0.07	0.88	0.92	0.63	0.52	0.43	0.62	0.92	0.04	4.6%
SC-180.02	10 min	4365	1.47	1.49	0.10	1.49	1.53	1.15	0.97	0.79	1.17	1.53	0.04	2.9%
SC-180.03	10 min	4365	2.07	2.09	0.15	2.09	2.15	1.60	1.37	1.10	1.63	2.15	0.06	3.1%
SC-180.04	10 min	4365	2.98	3.01	0.23	3.02	3.11	2.29	1.95	1.58	2.32	3.11	0.09	3.1%
SC-181.01	20 min	4371	0.39	0.38	0.05	0.38	0.34	0.37	0.30	0.24	0.37	0.37	-0.01	-2.7%
SC-181.02	10 min	4354	1.25	1.23	0.09	1.25	1.25	1.02	0.86	0.69	1.04	1.25	0.00	-0.1%
SC-181.03	10 min	4361	2.02	2.04	0.15	2.04	2.11	1.63	1.38	1.10	1.64	2.11	0.06	3.2%
SC-181.04	10 min	4361	3.72	3.75	0.24	3.79	3.81	3.16	2.67	2.12	3.19	3.81	0.02	0.6%
SC-181.05	10 min	4363	4.08	4.08	0.14	4.08	4.21	3.58	2.95	2.30	3.50	4.21	0.13	3.1%
SC-181.06	10 min	4363	4.50	4.51	0.14	4.55	4.65	3.96	3.25	2.50	3.83	4.65	0.10	2.3%
SC-181.07	10 min	4354	10.09	9.99	0.31	10.03	10.03	8.75	7.03	5.31	8.53	10.03	0.00	0.0%
SC-181.08	10 min	4354	10.42	10.37	0.24	10.40	10.40	9.12	7.28	5.48	8.80	10.40	0.00	0.0%
SC-182.01	10 min	4363	0.60	0.61	0.05	0.62	0.65	0.45	0.37	0.31	0.45	0.65	0.03	4.3%
SC-182.02	10 min	4361	0.98	0.99	0.07	1.00	1.01	0.77	0.64	0.51	0.77	1.01	0.01	1.1%
SC-182.03	10 min	4354	1.59	1.54	0.11	1.56	1.56	1.40	1.17	0.93	1.41	1.56	0.00	0.1%
SC-183.01	10 min	4354	0.59	0.58	0.04	0.59	0.59	0.50	0.42	0.33	0.51	0.59	0.00	0.5%
SC-183.02	10 min	4361	1.32	1.33	0.09	1.34	1.36	1.06	0.89	0.72	1.07	1.36	0.02	1.3%
SC-183.03	10 min	4361	3.27	3.29	0.19	3.32	3.34	2.65	2.20	1.74	2.65	3.34	0.02	0.6%
SC-183.04	10 min	4365	3.75	3.78	0.18	3.79	3.85	3.14	2.55	1.97	3.06	3.85	0.06	1.6%
SC-184.01	10 min	4363	1.40	1.43	0.11	1.43	1.49	1.06	0.90	0.73	1.07	1.49	0.06	4.5%
SC-185.01	10 min	4363	0.82	0.84	0.07	0.86	0.89	0.60	0.49	0.41	0.59	0.89	0.03	3.9%
SC-185.02	10 min	4365	1.85	1.88	0.14	1.89	1.95	1.40	1.15	0.93	1.38	1.95	0.06	3.0%
SC-186.01	10 min	4363	0.29	0.30	0.02	0.30	0.31	0.21	0.19	0.15	0.22	0.31	0.01	4.2%
SC-187.01	10 min	4363	0.83	0.85	0.07	0.87	0.90	0.60	0.49	0.42	0.59	0.90	0.03	3.6%
SC-187.02	10 min	4368	1.63	1.66	0.13	1.67	1.73	1.24	1.03	0.83	1.23	1.73	0.06	3.4%
SC-187.03	10 min	4363	1.91	1.93	0.13	1.97	2.04	1.51	1.24	0.99	1.47	2.04	0.07	3.5%
SC-187.04	10 min	4366	2.48	2.43	0.09	2.46	2.59	2.04	1.65	1.23	1.92	2.59	0.13	5.3%
SC-187.05	10 min	4356	2.93	2.92	0.08	2.93	3.01	2.45	1.98	1.41	2.27	3.01	0.08	2.7%
SC-188.01	10 min	4363	0.88	0.89	0.07	0.91	0.95	0.64	0.52	0.44	0.62	0.95	0.04	4.2%
SC-188.02	10 min	4365	1.31	1.33	0.10	1.33	1.37	0.99	0.81	0.66	0.97	1.37	0.04	2.9%
SC-189.01	10 min	4363	0.99	1.01	0.09	1.03	1.08	0.72	0.59	0.50	0.70	1.08	0.05	4.5%
SC-189.02	10 min	4363	1.78	1.81	0.15	1.83	1.90	1.33	1.13	0.92	1.33	1.90	0.07	4.0%
SC-19.01	10 min	4354	0.43	0.41	0.03	0.41	0.41	0.33	0.27	0.21	0.32	0.41	0.00	0.9%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	20 min	45 min	60 min	120 min		m³/s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-190.01	10 min	4363	0.44	0.45	0.04	0.45	0.47	0.31	0.26	0.22	0.30	0.47	0.02	4.2%
SC-191.01	10 min	4363	0.80	0.81	0.07	0.83	0.86	0.58	0.47	0.40	0.56	0.86	0.03	3.9%
SC-191.02	10 min	4365	1.16	1.18	0.09	1.19	1.22	0.87	0.72	0.58	0.86	1.22	0.03	2.4%
SC-191.03	10 min	4361	2.15	2.17	0.15	2.18	2.22	1.65	1.37	1.10	1.65	2.22	0.04	2.0%
SC-191.04	10 min	4361	3.14	3.18	0.23	3.18	3.26	2.42	2.01	1.61	2.41	3.26	0.08	2.6%
SC-191.05	10 min	4361	4.37	4.41	0.28	4.45	4.47	3.46	2.85	2.24	3.43	4.47	0.02	0.5%
SC-191.06	10 min	4354	7.51	7.55	0.45	7.65	7.65	6.21	5.33	4.23	6.29	7.65	0.00	0.0%
SC-191.07	10 min	4354	9.11	9.02	0.49	9.11	9.11	7.82	6.57	5.10	7.83	9.11	0.00	0.0%
SC-191.08	10 min	4363	9.83	9.92	0.47	9.97	10.18	8.88	7.46	5.72	8.85	10.18	0.21	2.1%
SC-192.01	10 min	4365	2.53	2.57	0.20	2.59	2.67	1.91	1.65	1.35	1.95	2.67	0.08	3.2%
SC-193.01	10 min	4365	1.16	1.17	0.09	1.18	1.22	0.91	0.78	0.63	0.93	1.22	0.04	3.1%
SC-194.01	10 min	4354	1.19	1.16	0.08	1.18	1.18	1.06	0.88	0.70	1.07	1.18	0.00	-0.1%
SC-194.02	20 min	4429	4.81	4.74	0.43	4.77	3.32	4.77	4.16	3.32	4.80	4.80	0.03	0.6%
SC-194.03	20 min	4429	5.05	4.91	0.38	4.95	3.88	4.95	4.77	3.74	5.47	5.47	0.52	10.5%
SC-195.01	20 min	4433	1.67	1.66	0.13	1.67	1.09	1.67	1.39	1.11	1.63	1.67	0.00	0.1%
SC-196.01	10 min	4361	3.80	3.83	0.26	3.86	3.91	3.22	2.77	2.23	3.28	3.91	0.05	1.3%
SC-197.01	10 min	4354	2.53	2.46	0.17	2.47	2.47	2.23	1.83	1.45	2.24	2.47	0.00	0.1%
SC-198.01	20 min	4399	2.47	2.39	0.27	2.40	1.94	2.48	1.85	1.40	2.35	2.48	0.08	3.3%
SC-2.01	10 min	4354	0.55	0.53	0.04	0.53	0.53	0.47	0.38	0.30	0.47	0.53	0.00	0.3%
SC-20.01	10 min	4363	0.54	0.55	0.04	0.56	0.58	0.39	0.32	0.27	0.38	0.58	0.02	3.5%
SC-200.01	10 min	4365	0.78	0.80	0.06	0.80	0.83	0.59	0.51	0.41	0.60	0.83	0.03	3.1%
SC-200.02	10 min	4363	1.38	1.40	0.11	1.41	1.47	1.04	0.93	0.76	1.08	1.47	0.06	4.0%
SC-200.03	10 min	4361	2.58	2.61	0.19	2.63	2.67	2.03	1.80	1.45	2.10	2.67	0.04	1.4%
SC-200.04	10 min	4354	3.84	3.78	0.27	3.84	3.84	3.06	2.66	2.11	3.14	3.84	0.00	-0.1%
SC-200.05	10 min	4354	6.19	6.21	0.37	6.29	6.29	4.94	4.19	3.31	4.94	6.29	0.00	0.0%
SC-200.06	10 min	4364	9.60	9.44	0.69	9.51	9.12	8.29	6.86	5.25	8.24	9.12	-0.40	-4.2%
SC-200.07	10 min	4364	11.19	11.08	0.80	11.17	10.56	9.97	8.15	6.18	9.86	10.56	-0.61	-5.5%
SC-200.08	10 min	4364	12.78	12.50	0.73	12.58	12.31	11.72	9.47	7.12	11.42	12.31	-0.27	-2.1%
SC-200.09	15 min	4401	18.71	18.35	1.59	18.58	18.59	17.80	14.16	10.26	16.86	18.59	0.01	0.1%
SC-201.01	10 min	4363	0.98	1.00	0.09	1.02	1.07	0.71	0.59	0.49	0.70	1.07	0.05	4.6%
SC-202.01	10 min	4363	1.00	1.01	0.09	1.05	1.10	0.70	0.59	0.50	0.68	1.10	0.04	4.3%
SC-203.01	10 min	4363	1.02	1.04	0.08	1.04	1.08	0.76	0.62	0.51	0.74	1.08	0.04	3.7%
SC-204.01	10 min	4364	1.36	1.34	0.13	1.36	1.27	1.11	0.92	0.71	1.10	1.27	-0.10	-7.0%
SC-205.01	20 min	4433	0.57	0.54	0.07	0.55	0.46	0.56	0.43	0.34	0.54	0.56	0.01	1.0%
SC-206.01	10 min	4364	4.28	4.35	0.39	4.38	3.84	3.75	3.06	2.24	3.74	3.84	-0.54	-12.4%
SC-207.01	10 min	4363	0.95	0.97	0.08	0.98	1.02	0.70	0.59	0.49	0.70	1.02	0.04	4.0%
SC-207.02	10 min	4361	1.87	1.89	0.14	1.89	1.94	1.43	1.20	0.97	1.42	1.94	0.05	2.7%
SC-207.03	10 min	4361	2.07	2.08	0.15	2.11	2.13	1.64	1.37	1.09	1.64	2.13	0.02	0.8%
SC-207.04	10 min	4354	5.77	5.72	0.25	5.77	5.77	4.79	3.89	3.00	4.69	5.77	0.00	0.1%
SC-207.05	10 min	4354	7.72	7.60	0.28	7.61	7.61	6.53	5.25	3.95	6.35	7.61	0.00	0.0%
SC-207.06	10 min	4364	8.36	8.32	0.18	8.34	8.25	7.16	5.73	4.24	6.86	8.25	-0.09	-1.1%
SC-207.07	10 min	4364	13.87	13.90	0.75	13.97	13.10	12.59	10.28	7.58	12.49	13.10	-0.87	-6.2%
SC-207.08	10 min	4364	20.96	20.69	0.63	20.74	20.59	18.96	15.43	11.48	18.59	20.59	-0.15	-0.7%
SC-207.09	10 min	4354	23.92	23.75	0.55	23.77	23.77	22.11	17.97	13.21	21.68	23.77	0.00	0.0%
SC-207.10	15 min	4401	24.57	24.50	1.30	24.60	24.31	22.80	18.77	13.76	22.58	24.31	-0.29	-1.2%
SC-207.11	15 min	4393	26.49	26.57	0.94	26.60	25.88	24.55	20.41	14.95	24.56	25.88	-0.73	-2.7%
SC-207.12	15 min	4358	38.13	38.13	1.94	38.54	37.65	35.46	29.14	21.23	34.91	37.65	-0.89	-2.3%
SC-207.13	15 min	4358	40.20	40.29	1.75	40.73	39.42	37.64	30.92	22.72	37.25	39.42	-1.31	-3.2%
SC-207.14	15 min	4358	41.56	41.72	1.43	41.81	40.39	38.83	31.97	23.76	38.75	40.39	-1.42	-3.4%
SC-208.01	10 min	4363	1.02	1.03	0.09	1.08	1.12	0.72	0.60	0.52	0.69	1.12	0.04	3.8%
SC-208.02	10 min	4363	1.46	1.49	0.12	1.51	1.57	1.07	0.88	0.75	1.04	1.57	0.06	4.0%
SC-208.03	10 min	4363	1.95	1.99	0.16	2.00	2.09	1.46	1.20	1.00	1.43	2.09	0.09	4.4%
SC-208.04	10 min	4365	3.08	3.11	0.18	3.12	3.18	2.41	1.96	1.54	2.37	3.18	0.06	2.0%
SC-208.05	10 min	4365	3.54	3.56	0.12	3.57	3.61	2.88	2.32	1.77	2.78	3.61	0.04	1.1%
SC-209.01	10 min	4363	0.64	0.66	0.05	0.66	0.69	0.47	0.41	0.34	0.48	0.69	0.03	4.7%
SC-21.01	10 min	4363	0.77	0.79	0.06	0.80	0.83	0.56	0.46	0.39	0.54	0.83	0.03	4.3%
SC-210.01	10 min	4363	1.44	1.47	0.13	1.49	1.56	1.05	0.87	0.72	1.04	1.56	0.07	4.5%
SC-210.02	10 min	4368	1.99	2.03	0.15	2.04	2.11	1.51	1.25	1.01	1.50	2.11	0.07	3.3%
SC-211.01	20 min	4429	0.57	0.56	0.05	0.56	0.39	0.56	0.48	0.38	0.55	0.56	0.00	0.4%
SC-211.02	25 min	4462	1.22	1.23	0.10	1.25	0.74	1.19	1.13	0.89	1.31	1.31	0.06	4.6%
SC-211.03	20 min	4433	1.95	1.92	0.14	1.92	1.36	1.95	1.85	1.44	2.10	2.10	0.18	9.4%
SC-211.04	20 min	4399	2.31	2.28	0.18	2.29	1.81	2.35	2.19	1.68	2.49	2.49	0.20	8.6%
SC-212.01	1 hour	4405	0.20	0.21	0.02	0.21	0.11	0.16	0.22	0.20	0.22	0.22	0.01	5.1%
SC-212.02	20 min	4433	0.43	0.42	0.04	0.43	0.31	0.43	0.42	0.34	0.46	0.46	0.03	6.4%
SC-213.01	10 min	4363	0.59	0.60	0.05	0.62	0.64	0.42	0.35	0.30	0.41	0.64	0.02	3.5%
SC-213.02	10 min	4363	1.00	1.02	0.08	1.02	1.06	0.74	0.61	0.50	0.72	1.06	0.04	4.1%
SC-214.01	10 min	4363	0.73	0.75	0.06	0.76	0.79	0.53	0.44	0.37	0.52	0.79	0.03	3.6%
SC-214.02	10 min	4363	1.58	1.61	0.13	1.64	1.71	1.14	0.94	0.79	1.11	1.71	0.07	4.0%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-215.01	10 min	4363	0.59	0.60	0.05	0.60	0.63	0.44	0.37	0.30	0.44	0.63	0.03	5.1%
SC-215.02	10 min	4361	1.07	1.08	0.08	1.08	1.11	0.81	0.69	0.55	0.82	1.11	0.03	2.8%
SC-216.01	10 min	4363	0.55	0.55	0.05	0.58	0.60	0.38	0.32	0.28	0.37	0.60	0.02	3.3%
SC-216.02	10 min	4363	1.66	1.69	0.14	1.73	1.80	1.19	1.00	0.86	1.15	1.80	0.07	4.0%
SC-216.03	10 min	4363	2.63	2.69	0.22	2.69	2.81	1.96	1.62	1.35	1.91	2.81	0.12	4.3%
SC-216.04	10 min	4366	3.68	3.65	0.19	3.73	3.92	2.97	2.44	1.85	2.79	3.92	0.19	5.2%
SC-217.01	10 min	4363	0.39	0.39	0.03	0.41	0.42	0.27	0.23	0.20	0.26	0.42	0.01	3.6%
SC-218.01	10 min	4363	0.30	0.30	0.03	0.31	0.32	0.21	0.18	0.15	0.20	0.32	0.01	4.6%
SC-219.01	10 min	4363	0.39	0.39	0.03	0.41	0.42	0.28	0.23	0.20	0.27	0.42	0.01	3.6%
SC-22.01	10 min	4363	0.43	0.44	0.04	0.45	0.46	0.31	0.26	0.22	0.30	0.46	0.01	3.0%
SC-220.01	10 min	4363	0.60	0.61	0.05	0.63	0.65	0.44	0.36	0.30	0.43	0.65	0.02	3.6%
SC-221.01	10 min	4363	0.56	0.57	0.05	0.58	0.60	0.40	0.33	0.28	0.39	0.60	0.02	3.7%
SC-221.02	10 min	4354	1.21	1.22	0.09	1.23	1.23	0.93	0.76	0.61	0.91	1.23	0.00	0.2%
SC-221.03	10 min	4361	1.49	1.50	0.10	1.51	1.54	1.15	0.94	0.76	1.13	1.54	0.03	1.9%
SC-221.04	10 min	4361	2.18	2.20	0.16	2.21	2.26	1.68	1.39	1.12	1.66	2.26	0.05	2.2%
SC-221.05	10 min	4354	2.81	2.83	0.18	2.86	2.86	2.23	1.82	1.43	2.20	2.86	0.00	-0.1%
SC-221.06	10 min	4361	2.96	2.97	0.17	2.99	3.02	2.40	1.95	1.53	2.35	3.02	0.03	0.9%
SC-222.01	10 min	4363	0.60	0.62	0.05	0.63	0.65	0.45	0.37	0.30	0.44	0.65	0.02	3.8%
SC-222.02	10 min	4365	0.97	0.98	0.07	0.98	1.01	0.74	0.61	0.49	0.73	1.01	0.03	3.0%
SC-222.03	10 min	4364	2.19	2.15	0.22	2.17	2.03	1.80	1.49	1.16	1.79	2.03	-0.14	-6.4%
SC-223.01	10 min	4363	0.26	0.26	0.02	0.27	0.28	0.19	0.15	0.13	0.18	0.28	0.01	3.0%
SC-224.01	15 min	4401	0.74	0.70	0.11	0.71	0.66	0.71	0.56	0.39	0.68	0.71	0.00	-0.6%
SC-225.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.35	0.29	0.24	0.35	0.52	0.02	3.5%
SC-226.01	10 min	4363	0.35	0.36	0.03	0.37	0.39	0.25	0.21	0.18	0.24	0.39	0.02	4.4%
SC-226.02	10 min	4354	0.83	0.84	0.06	0.85	0.85	0.63	0.52	0.42	0.61	0.85	0.00	0.3%
SC-226.03	10 min	4354	1.73	1.72	0.12	1.75	1.75	1.34	1.10	0.88	1.32	1.75	0.00	-0.3%
SC-226.04	10 min	4361	2.59	2.62	0.18	2.63	2.67	2.02	1.67	1.33	2.00	2.67	0.04	1.6%
SC-226.05	10 min	4361	10.31	10.38	0.69	10.48	10.58	8.25	6.86	5.45	8.19	10.58	0.10	1.0%
SC-226.06	10 min	4365	11.38	11.39	0.55	11.44	11.70	9.35	7.63	5.97	9.13	11.70	0.26	2.2%
SC-226.07	10 min	4363	12.33	12.33	0.44	12.46	12.79	10.45	8.41	6.50	9.97	12.79	0.33	2.7%
SC-226.08	10 min	4363	12.87	12.88	0.46	13.12	13.42	11.02	8.86	6.78	10.48	13.42	0.30	2.3%
SC-227.01	10 min	4363	0.19	0.19	0.02	0.19	0.20	0.13	0.11	0.09	0.13	0.20	0.01	5.7%
SC-228.01	10 min	4363	0.40	0.40	0.03	0.41	0.43	0.29	0.24	0.20	0.28	0.43	0.02	4.4%
SC-229.01	10 min	4363	0.28	0.28	0.02	0.29	0.30	0.20	0.17	0.14	0.20	0.30	0.01	3.4%
SC-23.01	10 min	4363	0.56	0.57	0.05	0.59	0.61	0.41	0.34	0.29	0.39	0.61	0.02	3.5%
SC-23.02	10 min	4354	1.69	1.68	0.12	1.71	1.71	1.28	1.06	0.84	1.25	1.71	0.00	-0.3%
SC-23.03	10 min	4354	2.08	2.06	0.14	2.09	2.09	1.62	1.32	1.05	1.59	2.09	0.00	0.1%
SC-230.01	10 min	4363	0.27	0.28	0.02	0.28	0.29	0.20	0.17	0.14	0.20	0.29	0.01	5.1%
SC-231.01	10 min	4363	0.30	0.31	0.03	0.31	0.33	0.23	0.19	0.15	0.22	0.33	0.02	5.9%
SC-232.01	10 min	4363	0.76	0.77	0.06	0.77	0.81	0.56	0.48	0.40	0.57	0.81	0.04	4.6%
SC-232.02	10 min	4365	1.20	1.22	0.09	1.22	1.26	0.91	0.77	0.62	0.91	1.26	0.04	3.1%
SC-232.03	10 min	4361	2.79	2.82	0.20	2.85	2.87	2.15	1.80	1.44	2.14	2.87	0.02	0.7%
SC-233.01	10 min	4363	0.54	0.55	0.05	0.56	0.58	0.39	0.32	0.27	0.38	0.58	0.02	3.6%
SC-233.02	10 min	4361	0.89	0.90	0.06	0.90	0.92	0.68	0.56	0.45	0.67	0.92	0.02	2.1%
SC-234.01	10 min	4363	0.77	0.79	0.07	0.80	0.84	0.57	0.47	0.39	0.56	0.84	0.04	4.6%
SC-234.02	10 min	4361	1.50	1.52	0.10	1.53	1.55	1.16	0.96	0.77	1.15	1.55	0.01	1.0%
SC-234.03	10 min	4354	4.43	4.44	0.30	4.50	4.50	3.52	2.95	2.36	3.54	4.50	0.00	0.0%
SC-235.01	10 min	4363	0.28	0.29	0.02	0.30	0.31	0.20	0.17	0.14	0.19	0.31	0.01	3.8%
SC-236.01	10 min	4363	0.36	0.37	0.03	0.38	0.39	0.26	0.21	0.18	0.25	0.39	0.01	3.8%
SC-236.02	10 min	4363	0.56	0.57	0.05	0.58	0.60	0.41	0.34	0.28	0.40	0.60	0.02	3.9%
SC-237.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.36	0.30	0.25	0.36	0.53	0.02	3.5%
SC-237.02	10 min	4364	1.06	1.03	0.08	1.04	1.02	0.95	0.78	0.62	0.95	1.02	-0.02	-2.0%
SC-238.01	10 min	4363	0.32	0.32	0.03	0.33	0.35	0.23	0.19	0.16	0.22	0.35	0.02	4.8%
SC-238.02	10 min	4361	0.73	0.74	0.05	0.75	0.76	0.56	0.46	0.37	0.55	0.76	0.01	0.8%
SC-239.01	10 min	4363	0.41	0.42	0.03	0.42	0.44	0.30	0.25	0.21	0.29	0.44	0.02	4.9%
SC-24.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.36	0.29	0.25	0.35	0.53	0.02	4.5%
SC-240.01	20 min	4433	1.10	1.09	0.10	1.10	0.75	1.10	0.88	0.70	1.06	1.10	0.00	-0.3%
SC-240.02	20 min	4429	1.61	1.55	0.15	1.56	1.22	1.56	1.33	1.04	1.57	1.57	0.01	0.5%
SC-241.01	15 min	4401	4.78	4.46	0.80	4.53	4.37	4.40	3.58	2.47	4.32	4.40	-0.13	-2.9%
SC-242.01	10 min	4363	0.57	0.58	0.05	0.59	0.61	0.42	0.36	0.30	0.43	0.61	0.02	3.6%
SC-242.02	10 min	4365	1.48	1.49	0.11	1.50	1.54	1.12	0.96	0.77	1.14	1.54	0.04	2.7%
SC-242.03	10 min	4361	2.20	2.22	0.16	2.22	2.28	1.67	1.43	1.15	1.69	2.28	0.06	2.8%
SC-242.04	10 min	4361	2.33	2.36	0.18	2.36	2.43	1.79	1.53	1.22	1.80	2.43	0.07	3.0%
SC-242.05	10 min	4354	5.18	5.17	0.33	5.23	5.23	4.05	3.37	2.63	4.03	5.23	0.00	0.1%
SC-242.06	10 min	4354	6.81	6.63	0.42	6.67	6.67	5.47	4.48	3.45	5.43	6.67	0.00	0.0%
SC-242.07	10 min	4354	7.35	7.13	0.45	7.14	7.14	6.02	4.92	3.75	5.94	7.14	0.00	-0.1%
SC-242.08	10 min	4364	14.14	14.00	0.74	14.04	13.44	12.32	10.04	7.30	11.95	13.44	-0.60	-4.3%
SC-243.01	10 min	4363	0.54	0.55	0.05	0.56	0.58	0.38	0.32	0.27	0.38	0.58	0.02	4.4%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-243.02	10 min	4368	1.98	2.02	0.15	2.04	2.10	1.49	1.23	1.00	1.47	2.10	0.06	2.7%
SC-244.01	10 min	4363	0.76	0.77	0.07	0.79	0.83	0.54	0.45	0.38	0.53	0.83	0.04	4.5%
SC-245.01	10 min	4363	0.40	0.41	0.03	0.42	0.43	0.29	0.24	0.20	0.28	0.43	0.01	3.1%
SC-246.01	10 min	4363	0.27	0.27	0.02	0.28	0.29	0.20	0.17	0.14	0.20	0.29	0.01	3.5%
SC-246.02	10 min	4364	0.73	0.71	0.07	0.72	0.68	0.59	0.49	0.38	0.58	0.68	-0.04	-5.2%
SC-247.01	10 min	4354	0.74	0.74	0.05	0.75	0.75	0.56	0.46	0.37	0.55	0.75	0.00	-0.1%
SC-247.02	10 min	4364	1.84	1.87	0.20	1.89	1.61	1.56	1.27	0.95	1.56	1.61	-0.28	-14.7%
SC-248.01	10 min	4364	0.92	0.93	0.08	0.94	0.82	0.78	0.64	0.45	0.78	0.82	-0.12	-12.3%
SC-249.01	20 min	4433	0.22	0.22	0.02	0.22	0.15	0.22	0.17	0.13	0.21	0.22	0.00	-1.0%
SC-249.02	20 min	4371	0.65	0.63	0.09	0.63	0.57	0.61	0.51	0.40	0.61	0.61	-0.02	-3.5%
SC-249.03	10 min	4357	1.33	1.29	0.10	1.29	1.29	1.17	0.99	0.78	1.18	1.29	0.00	-0.1%
SC-249.04	10 min	4354	3.27	3.21	0.21	3.25	3.25	2.73	2.32	1.83	2.77	3.25	0.00	0.1%
SC-249.05	10 min	4354	9.70	9.41	0.64	9.49	9.49	7.99	6.66	5.18	8.04	9.49	0.00	0.0%
SC-249.06	10 min	4364	16.08	16.03	0.80	16.08	15.27	15.01	11.91	8.89	14.55	15.27	-0.81	-5.0%
SC-25.01	10 min	4363	1.50	1.52	0.13	1.56	1.63	1.08	0.89	0.75	1.05	1.63	0.07	4.3%
SC-25.02	10 min	4365	2.15	2.17	0.16	2.19	2.25	1.61	1.32	1.08	1.58	2.25	0.06	2.6%
SC-25.03	10 min	4368	2.34	2.38	0.18	2.38	2.48	1.78	1.46	1.18	1.75	2.48	0.10	4.0%
SC-25.04	10 min	4361	3.94	3.98	0.29	4.00	4.09	3.05	2.52	2.02	3.02	4.09	0.09	2.2%
SC-250.01	10 min	4363	0.17	0.18	0.01	0.18	0.18	0.12	0.11	0.09	0.12	0.18	0.00	2.1%
SC-251.01	10 min	4363	0.42	0.43	0.04	0.43	0.45	0.31	0.26	0.21	0.31	0.45	0.02	4.2%
SC-252.01	10 min	4365	0.49	0.49	0.03	0.49	0.51	0.39	0.33	0.27	0.40	0.51	0.02	3.9%
SC-252.02	10 min	4368	0.91	0.92	0.07	0.92	0.96	0.69	0.59	0.48	0.70	0.96	0.04	4.5%
SC-253.01	10 min	4363	0.71	0.72	0.06	0.74	0.77	0.52	0.43	0.36	0.51	0.77	0.03	4.4%
SC-253.02	10 min	4365	2.59	2.63	0.19	2.64	2.72	1.96	1.64	1.33	1.97	2.72	0.08	3.0%
SC-253.03	10 min	4365	3.14	3.21	0.25	3.23	3.32	2.40	2.02	1.64	2.40	3.32	0.09	2.9%
SC-254.01	10 min	4363	0.72	0.73	0.06	0.74	0.77	0.54	0.45	0.37	0.54	0.77	0.03	4.7%
SC-255.01	10 min	4361	0.68	0.69	0.05	0.69	0.71	0.55	0.46	0.37	0.56	0.71	0.02	2.6%
SC-256.01	10 min	4365	0.60	0.61	0.04	0.61	0.63	0.46	0.38	0.31	0.45	0.63	0.02	3.3%
SC-257.01	10 min	4365	0.34	0.34	0.03	0.35	0.36	0.25	0.21	0.17	0.25	0.36	0.01	1.5%
SC-258.01	10 min	4361	1.55	1.56	0.11	1.58	1.59	1.16	0.95	0.76	1.14	1.59	0.01	0.7%
SC-258.02	10 min	4364	2.56	2.60	0.32	2.63	2.20	2.16	1.78	1.36	2.16	2.20	-0.43	-16.2%
SC-259.01	10 min	4363	0.66	0.67	0.06	0.68	0.71	0.47	0.41	0.34	0.48	0.71	0.03	4.8%
SC-259.02	10 min	4365	1.38	1.40	0.11	1.40	1.44	1.05	0.90	0.73	1.06	1.44	0.04	3.1%
SC-259.03	10 min	4365	1.96	1.98	0.15	1.99	2.05	1.48	1.27	1.02	1.50	2.05	0.06	3.1%
SC-259.04	10 min	4365	3.55	3.60	0.28	3.62	3.72	2.68	2.31	1.86	2.71	3.72	0.10	2.8%
SC-259.05	10 min	4361	4.36	4.40	0.33	4.41	4.53	3.33	2.85	2.27	3.36	4.53	0.12	2.7%
SC-259.06	10 min	4365	5.61	5.67	0.42	5.69	5.86	4.34	3.69	2.93	4.35	5.86	0.17	3.0%
SC-259.07	10 min	4356	7.24	7.15	0.32	7.17	7.64	6.06	4.93	3.71	5.64	7.64	0.47	6.5%
SC-259.08	10 min	4356	8.57	8.54	0.26	8.57	8.86	7.18	5.85	4.24	6.69	8.86	0.29	3.4%
SC-259.09	10 min	4356	22.37	22.31	0.34	22.34	22.76	20.44	16.25	11.94	19.46	22.76	0.42	1.9%
SC-259.10	10 min	4356	22.72	22.69	0.31	22.72	23.07	20.74	16.57	12.20	19.94	23.07	0.35	1.6%
SC-26.01	10 min	4363	0.46	0.47	0.04	0.48	0.49	0.34	0.28	0.23	0.33	0.49	0.01	3.1%
SC-260.01	10 min	4363	0.44	0.44	0.04	0.45	0.47	0.32	0.26	0.22	0.31	0.47	0.02	5.2%
SC-261.01	10 min	4363	0.56	0.57	0.05	0.58	0.60	0.41	0.36	0.29	0.41	0.60	0.02	3.2%
SC-262.01	10 min	4363	0.64	0.65	0.06	0.66	0.69	0.46	0.38	0.32	0.46	0.69	0.03	4.5%
SC-262.02	10 min	4368	1.16	1.18	0.09	1.19	1.23	0.87	0.72	0.59	0.86	1.23	0.04	3.1%
SC-263.01	10 min	4363	0.67	0.69	0.06	0.70	0.73	0.50	0.41	0.34	0.50	0.73	0.03	3.8%
SC-264.01	10 min	4363	0.37	0.38	0.03	0.39	0.40	0.27	0.22	0.19	0.26	0.40	0.01	3.0%
SC-265.01	10 min	4363	0.49	0.50	0.04	0.50	0.53	0.37	0.31	0.25	0.37	0.53	0.03	5.2%
SC-265.02	20 min	4371	1.24	1.19	0.19	1.20	1.17	1.13	0.93	0.74	1.13	1.17	-0.03	-2.6%
SC-265.03	15 min	4401	2.14	2.04	0.26	2.08	2.01	2.10	1.66	1.25	2.01	2.10	0.02	1.1%
SC-265.04	10 min	4354	10.15	10.14	0.26	10.21	10.21	9.65	7.72	5.84	9.29	10.21	0.00	0.0%
SC-266.01	10 min	4354	0.63	0.63	0.04	0.64	0.64	0.54	0.45	0.36	0.54	0.64	0.00	0.6%
SC-266.02	10 min	4354	1.21	1.20	0.08	1.22	1.22	1.02	0.85	0.69	1.03	1.22	0.00	-0.2%
SC-266.03	10 min	4361	1.45	1.47	0.10	1.47	1.51	1.20	1.02	0.83	1.22	1.51	0.04	2.4%
SC-266.04	10 min	4354	5.64	5.52	0.37	5.60	5.60	4.87	4.10	3.25	4.93	5.60	0.00	-0.1%
SC-266.05	10 min	4365	6.44	6.47	0.24	6.48	6.62	5.82	4.84	3.76	5.76	6.62	0.14	2.1%
SC-267.01	10 min	4363	0.60	0.61	0.05	0.62	0.65	0.44	0.36	0.30	0.43	0.65	0.03	4.0%
SC-268.01	10 min	4363	1.01	1.03	0.08	1.04	1.08	0.75	0.63	0.52	0.76	1.08	0.04	4.2%
SC-268.02	10 min	4354	2.65	2.66	0.17	2.70	2.70	2.21	1.86	1.50	2.23	2.70	-0.01	-0.2%
SC-269.01	20 min	4371	0.45	0.43	0.07	0.43	0.41	0.42	0.34	0.27	0.42	0.42	-0.01	-2.3%
SC-27.01	10 min	4354	0.49	0.49	0.03	0.49	0.49	0.40	0.33	0.26	0.40	0.49	0.00	0.7%
SC-270.01	20 min	4429	0.50	0.47	0.07	0.47	0.44	0.47	0.37	0.29	0.46	0.47	0.00	-0.8%
SC-271.01	15 min	4401	0.31	0.28	0.06	0.29	0.27	0.28	0.23	0.17	0.28	0.28	-0.01	-3.4%
SC-272.01	20 min	4433	0.75	0.71	0.10	0.71	0.62	0.71	0.56	0.44	0.70	0.71	0.00	-0.1%
SC-272.02	20 min	4371	1.53	1.44	0.23	1.45	1.32	1.40	1.14	0.89	1.40	1.40	-0.05	-3.7%
SC-272.03	10 min	4364	2.52	2.55	0.32	2.58	2.16	2.19	1.83	1.41	2.22	2.22	-0.36	-14.1%
SC-273.01	10 min	4364	0.71	0.73	0.10	0.73	0.60	0.59	0.48	0.37	0.58	0.60	-0.13	-17.2%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-274.01	20 min	4433	0.36	0.36	0.04	0.36	0.26	0.35	0.35	0.28	0.37	0.37	0.01	4.1%
SC-274.02	10 min	4354	1.44	1.42	0.10	1.44	1.44	1.18	1.08	0.86	1.24	1.44	0.00	0.2%
SC-274.03	10 min	4361	3.44	3.47	0.24	3.48	3.55	2.68	2.33	1.87	2.75	3.55	0.07	2.1%
SC-274.04	10 min	4365	4.44	4.48	0.31	4.49	4.62	3.45	2.98	2.39	3.51	4.62	0.13	2.9%
SC-274.05	10 min	4354	5.84	5.72	0.44	5.81	5.81	4.60	3.95	3.15	4.66	5.81	0.00	0.1%
SC-275.01	10 min	4363	0.65	0.67	0.06	0.68	0.71	0.48	0.40	0.33	0.48	0.71	0.03	4.0%
SC-276.01	10 min	4363	0.48	0.48	0.04	0.50	0.52	0.34	0.28	0.24	0.33	0.52	0.02	3.1%
SC-277.01	10 min	4361	0.61	0.62	0.04	0.62	0.63	0.46	0.38	0.30	0.45	0.63	0.01	2.2%
SC-278.01	10 min	4363	0.37	0.37	0.03	0.38	0.40	0.27	0.22	0.18	0.26	0.40	0.02	4.5%
SC-278.02	10 min	4364	4.92	5.00	0.51	5.04	4.34	4.15	3.39	2.50	4.15	4.34	-0.70	-13.9%
SC-279.01	10 min	4364	0.65	0.65	0.07	0.66	0.59	0.55	0.46	0.35	0.56	0.59	-0.07	-11.0%
SC-279.02	10 min	4364	4.68	4.76	0.59	4.81	4.02	3.91	3.19	2.39	3.88	4.02	-0.79	-16.4%
SC-28.01	20 min	4399	0.43	0.41	0.05	0.41	0.34	0.43	0.32	0.24	0.41	0.43	0.02	4.7%
SC-28.02	20 min	4433	0.97	0.92	0.14	0.92	0.81	0.91	0.73	0.57	0.90	0.91	-0.01	-0.9%
SC-28.03	20 min	4371	1.35	1.28	0.20	1.29	1.22	1.25	1.02	0.80	1.24	1.25	-0.04	-3.2%
SC-28.04	10 min	4354	2.89	2.80	0.21	2.82	2.82	2.38	2.01	1.59	2.42	2.82	0.00	-0.1%
SC-280.01	10 min	4354	0.62	0.61	0.04	0.62	0.62	0.49	0.41	0.33	0.50	0.62	0.00	-0.5%
SC-29.01	10 min	4363	0.46	0.47	0.04	0.48	0.49	0.33	0.27	0.23	0.32	0.49	0.01	3.0%
SC-29.02	10 min	4361	1.27	1.28	0.09	1.29	1.30	0.97	0.80	0.64	0.95	1.30	0.01	0.7%
SC-3.01	10 min	4364	0.56	0.55	0.04	0.55	0.53	0.49	0.40	0.31	0.49	0.53	-0.02	-3.2%
SC-3.02	15 min	4396	1.82	1.70	0.30	1.73	1.65	1.66	1.35	1.06	1.66	1.66	-0.07	-3.9%
SC-30.01	10 min	4363	0.82	0.83	0.07	0.85	0.88	0.59	0.48	0.41	0.57	0.88	0.03	4.0%
SC-30.02	10 min	4354	1.49	1.50	0.10	1.52	1.52	1.13	0.93	0.74	1.11	1.52	0.00	0.1%
SC-30.03	10 min	4361	2.06	2.08	0.14	2.10	2.12	1.59	1.31	1.04	1.56	2.12	0.02	0.9%
SC-30.04	10 min	4361	2.62	2.65	0.19	2.66	2.72	2.03	1.67	1.34	2.00	2.72	0.06	2.1%
SC-31.01	10 min	4354	0.57	0.55	0.04	0.56	0.56	0.44	0.37	0.29	0.44	0.56	0.00	-0.8%
SC-31.02	10 min	4354	1.19	1.15	0.09	1.15	1.15	0.94	0.77	0.61	0.93	1.15	0.00	0.3%
SC-32.01	15 min	4392	0.52	0.48	0.09	0.48	0.47	0.47	0.38	0.28	0.47	0.47	-0.01	-1.5%
SC-32.02	15 min	4401	0.74	0.70	0.10	0.71	0.65	0.71	0.56	0.40	0.68	0.71	0.00	0.2%
SC-33.01	10 min	4363	0.69	0.70	0.06	0.71	0.74	0.50	0.41	0.35	0.48	0.74	0.03	4.4%
SC-33.02	10 min	4365	1.59	1.60	0.12	1.61	1.66	1.21	1.00	0.80	1.19	1.66	0.05	3.3%
SC-34.01	10 min	4354	0.55	0.55	0.04	0.55	0.55	0.41	0.34	0.27	0.40	0.55	0.00	0.5%
SC-34.02	10 min	4354	1.12	1.09	0.08	1.11	1.11	0.86	0.70	0.55	0.84	1.11	0.00	-0.3%
SC-34.03	10 min	4365	1.30	1.31	0.08	1.32	1.36	1.03	0.84	0.67	1.01	1.36	0.04	2.7%
SC-35.01	10 min	4363	0.49	0.50	0.04	0.52	0.54	0.34	0.29	0.25	0.33	0.54	0.02	3.7%
SC-35.02	10 min	4363	1.36	1.39	0.11	1.39	1.45	0.99	0.83	0.71	0.97	1.45	0.06	4.0%
SC-35.03	10 min	4368	2.16	2.21	0.17	2.22	2.29	1.58	1.33	1.14	1.53	2.29	0.07	3.2%
SC-35.04	10 min	4363	2.31	2.36	0.19	2.37	2.47	1.70	1.43	1.22	1.65	2.47	0.09	4.0%
SC-36.01	10 min	4363	1.05	1.07	0.09	1.08	1.13	0.77	0.64	0.52	0.76	1.13	0.05	4.4%
SC-36.02	10 min	4363	1.89	1.92	0.15	1.95	2.03	1.38	1.14	0.94	1.36	2.03	0.08	4.1%
SC-37.01	10 min	4363	0.40	0.41	0.03	0.42	0.43	0.30	0.24	0.20	0.29	0.43	0.01	3.0%
SC-37.02	10 min	4361	1.14	1.15	0.08	1.15	1.18	0.85	0.70	0.57	0.83	1.18	0.03	3.0%
SC-38.01	10 min	4368	0.47	0.48	0.04	0.48	0.50	0.35	0.29	0.24	0.34	0.50	0.02	4.6%
SC-39.01	10 min	4363	0.27	0.28	0.02	0.28	0.29	0.20	0.16	0.14	0.19	0.29	0.01	4.6%
SC-4.01	20 min	4429	0.64	0.61	0.09	0.61	0.55	0.61	0.48	0.37	0.60	0.61	0.00	-0.3%
SC-40.01	10 min	4363	0.63	0.64	0.06	0.66	0.69	0.44	0.38	0.32	0.43	0.69	0.03	5.0%
SC-41.01	10 min	4363	0.41	0.42	0.04	0.44	0.45	0.29	0.24	0.21	0.28	0.45	0.01	3.1%
SC-42.01	10 min	4363	1.41	1.43	0.12	1.48	1.54	0.99	0.83	0.71	0.96	1.54	0.06	4.1%
SC-43.01	10 min	4363	0.31	0.31	0.03	0.32	0.34	0.21	0.18	0.16	0.20	0.34	0.02	5.4%
SC-44.01	10 min	4363	0.97	0.99	0.08	1.01	1.06	0.71	0.58	0.49	0.70	1.06	0.05	4.6%
SC-44.02	10 min	4365	1.57	1.58	0.11	1.58	1.63	1.18	0.98	0.79	1.17	1.63	0.05	3.2%
SC-44.03	10 min	4361	2.15	2.17	0.15	2.17	2.23	1.64	1.35	1.09	1.62	2.23	0.06	2.8%
SC-44.04	10 min	4361	3.28	3.30	0.23	3.35	3.36	2.55	2.11	1.68	2.52	3.36	0.01	0.3%
SC-44.05	10 min	4361	5.73	5.77	0.34	5.80	5.89	4.59	3.73	2.94	4.48	5.89	0.09	1.5%
SC-44.06	10 min	4365	6.10	6.12	0.30	6.13	6.26	5.03	4.04	3.15	4.88	6.26	0.13	2.1%
SC-44.07	10 min	4355	6.90	6.82	0.19	6.82	6.81	6.11	4.81	3.51	5.85	6.81	-0.01	-0.2%
SC-44.08	10 min	4364	8.84	8.78	0.28	8.82	8.58	7.82	6.06	4.30	7.52	8.58	-0.24	-2.8%
SC-44.09	10 min	4364	9.22	9.10	0.24	9.12	9.03	8.64	6.76	4.77	8.32	9.03	-0.09	-1.0%
SC-44.10	45 min	4747	0.73	0.73	0.01	0.73	0.66	0.69	0.73	0.74	0.76	0.76	0.03	4.6%
SC-44.11	45 min	4533	12.10	11.91	1.21	12.48	1.50	9.81	12.48	9.98	14.74	14.74	2.26	18.1%
SC-44.12	45 min	4747	0.71	0.73	0.07	0.72	0.00	0.00	0.00	0.00	0.69	0.69	-0.03	-3.9%
SC-44.13	45 min	4747	0.57	0.57	0.02	0.57	0.14	0.23	0.30	0.29	0.67	0.67	0.10	17.3%
SC-44.14	45 min	4747	1.49	1.49	0.07	1.50	0.41	1.06	1.47	1.47	1.48	1.48	-0.02	-1.3%
SC-44.15	45 min	4785	2.58	2.59	0.03	2.59	2.23	2.39	2.59	2.59	2.57	2.59	0.00	0.1%
SC-44.16	45 min	4785	2.64	2.65	0.03	2.65	2.31	2.48	2.67	2.64	2.63	2.67	0.02	0.6%
SC-44.17	15 min	4401	8.46	8.23	0.76	8.32	8.03	8.28	7.24	5.94	8.12	8.28	-0.04	-0.5%
SC-44.18	15 min	4401	8.82	8.78	0.65	8.86	8.19	8.71	7.76	6.31	8.70	8.71	-0.15	-1.7%
SC-44.19	15 min	4401	9.91	10.00	0.47	10.10	9.35	10.08	8.76	6.99	9.83	10.08	-0.02	-0.2%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-44.20	25 min	4466	9.30	9.30	0.42	9.34	8.40	9.27	8.64	7.22	9.44	9.44	0.10	1.0%
SC-45.01	10 min	4361	0.73	0.74	0.05	0.74	0.75	0.57	0.47	0.38	0.56	0.75	0.01	1.9%
SC-46.01	10 min	4363	0.59	0.60	0.05	0.61	0.63	0.43	0.35	0.29	0.42	0.63	0.02	3.6%
SC-46.02	10 min	4354	1.02	1.02	0.07	1.03	1.03	0.78	0.64	0.51	0.77	1.03	0.00	0.3%
SC-46.03	10 min	4361	1.52	1.53	0.10	1.55	1.56	1.17	0.97	0.77	1.16	1.56	0.01	0.7%
SC-46.04	10 min	4361	1.72	1.73	0.12	1.74	1.78	1.33	1.10	0.88	1.31	1.78	0.03	2.0%
SC-47.01	10 min	4363	0.95	0.97	0.08	0.99	1.03	0.70	0.58	0.48	0.69	1.03	0.04	4.2%
SC-48.01	10 min	4363	0.72	0.73	0.06	0.75	0.78	0.52	0.43	0.36	0.51	0.78	0.03	3.9%
SC-48.02	10 min	4361	1.15	1.16	0.08	1.17	1.18	0.87	0.72	0.58	0.86	1.18	0.01	0.9%
SC-49.01	10 min	4363	0.81	0.83	0.07	0.84	0.87	0.59	0.48	0.41	0.57	0.87	0.03	3.9%
SC-5.01	10 min	4354	0.52	0.52	0.03	0.53	0.53	0.39	0.32	0.26	0.39	0.53	0.00	-0.8%
SC-50.01	10 min	4364	0.29	0.28	0.03	0.28	0.27	0.23	0.19	0.14	0.22	0.27	-0.01	-2.1%
SC-51.01	10 min	4365	0.29	0.29	0.02	0.29	0.30	0.21	0.18	0.14	0.20	0.30	0.01	3.0%
SC-52.01	10 min	4368	0.29	0.29	0.02	0.29	0.30	0.21	0.18	0.14	0.20	0.30	0.01	5.1%
SC-53.01	10 min	4363	0.70	0.71	0.06	0.72	0.75	0.51	0.42	0.35	0.50	0.75	0.03	4.4%
SC-53.02	10 min	4354	1.44	1.43	0.10	1.45	1.45	1.11	0.92	0.72	1.09	1.45	0.00	-0.1%
SC-53.03	10 min	4361	1.73	1.75	0.12	1.76	1.79	1.35	1.11	0.89	1.33	1.79	0.03	1.7%
SC-54.01	10 min	4363	0.57	0.58	0.05	0.59	0.61	0.41	0.34	0.28	0.40	0.61	0.02	3.4%
SC-54.02	10 min	4354	1.10	1.08	0.08	1.10	1.10	0.85	0.69	0.55	0.83	1.10	0.00	0.0%
SC-55.01	10 min	4363	0.88	0.90	0.07	0.91	0.95	0.64	0.52	0.44	0.62	0.95	0.04	4.2%
SC-56.01	10 min	4354	0.42	0.41	0.03	0.42	0.42	0.32	0.26	0.20	0.31	0.42	0.00	0.1%
SC-57.01	10 min	4364	0.31	0.31	0.04	0.31	0.27	0.25	0.20	0.16	0.24	0.27	-0.04	-11.4%
SC-58.01	10 min	4363	0.57	0.58	0.05	0.59	0.62	0.42	0.35	0.28	0.41	0.62	0.03	4.7%
SC-59.01	10 min	4363	0.77	0.79	0.06	0.79	0.82	0.59	0.49	0.40	0.59	0.82	0.03	4.4%
SC-59.02	10 min	4354	1.48	1.47	0.10	1.49	1.49	1.15	0.97	0.77	1.16	1.49	0.00	0.2%
SC-59.03	10 min	4354	2.15	2.15	0.15	2.18	2.18	1.67	1.39	1.11	1.66	2.18	0.00	0.0%
SC-59.04	10 min	4354	2.76	2.78	0.19	2.82	2.82	2.14	1.79	1.42	2.13	2.82	0.00	0.1%
SC-59.05	10 min	4354	5.98	5.88	0.36	5.96	5.97	4.91	4.03	3.15	4.83	5.97	0.00	0.1%
SC-59.06	10 min	4354	6.93	6.78	0.36	6.84	6.84	5.86	4.70	3.59	5.73	6.84	0.00	0.0%
SC-59.07	10 min	4357	11.74	11.45	0.73	11.45	11.37	10.10	8.19	6.30	9.93	11.37	-0.08	-0.7%
SC-59.08	15 min	4401	11.55	11.32	1.41	11.49	10.49	11.11	8.84	6.62	10.81	11.11	-0.38	-3.3%
SC-59.09	15 min	4401	13.84	13.86	1.11	14.04	12.32	13.79	10.91	8.01	13.32	13.79	-0.25	-1.8%
SC-59.10	25 min	4394	11.97	12.21	1.06	12.35	5.29	11.48	11.59	8.81	13.93	13.93	1.58	12.8%
SC-6.01	10 min	4363	0.65	0.66	0.06	0.69	0.71	0.46	0.39	0.33	0.45	0.71	0.02	3.6%
SC-60.01	10 min	4364	0.52	0.53	0.05	0.53	0.47	0.46	0.38	0.29	0.46	0.47	-0.06	-11.1%
SC-60.02	10 min	4364	2.15	2.08	0.18	2.10	2.04	1.78	1.46	1.14	1.77	2.04	-0.06	-2.8%
SC-61.01	10 min	4357	1.13	1.10	0.08	1.10	1.09	0.90	0.74	0.58	0.89	1.09	-0.01	-1.0%
SC-62.01	10 min	4363	0.68	0.69	0.05	0.70	0.73	0.50	0.41	0.34	0.48	0.73	0.03	3.7%
SC-63.01	10 min	4364	0.39	0.40	0.05	0.40	0.34	0.33	0.27	0.21	0.33	0.34	-0.06	-15.4%
SC-64.01	10 min	4363	0.51	0.52	0.04	0.53	0.55	0.37	0.31	0.25	0.37	0.55	0.02	4.0%
SC-64.02	10 min	4354	1.75	1.73	0.12	1.76	1.76	1.38	1.15	0.91	1.38	1.76	-0.01	-0.3%
SC-64.03	10 min	4354	3.27	3.26	0.22	3.31	3.31	2.57	2.14	1.71	2.57	3.31	0.00	-0.1%
SC-64.04	10 min	4354	4.64	4.54	0.32	4.60	4.60	3.84	3.18	2.50	3.83	4.60	0.00	0.0%
SC-65.01	10 min	4363	0.40	0.40	0.03	0.41	0.43	0.29	0.25	0.20	0.29	0.43	0.02	4.0%
SC-66.01	10 min	4354	0.33	0.32	0.03	0.32	0.32	0.25	0.21	0.16	0.25	0.32	0.00	0.6%
SC-66.02	15 min	4401	0.77	0.71	0.14	0.72	0.68	0.69	0.56	0.43	0.69	0.69	-0.03	-3.6%
SC-67.01	10 min	4363	0.57	0.58	0.05	0.59	0.62	0.41	0.34	0.29	0.40	0.62	0.03	4.7%
SC-68.01	10 min	4363	0.78	0.80	0.07	0.81	0.84	0.57	0.46	0.39	0.55	0.84	0.03	4.0%
SC-68.02	10 min	4354	1.50	1.50	0.11	1.52	1.52	1.14	0.94	0.75	1.11	1.52	0.00	0.1%
SC-68.03	10 min	4368	2.71	2.76	0.21	2.77	2.86	2.04	1.67	1.37	1.99	2.86	0.09	3.1%
SC-69.01	10 min	4363	0.67	0.68	0.06	0.70	0.73	0.47	0.40	0.34	0.45	0.73	0.03	4.7%
SC-7.01	10 min	4365	0.89	0.90	0.06	0.90	0.92	0.70	0.58	0.47	0.70	0.92	0.02	2.6%
SC-70.01	10 min	4363	0.62	0.63	0.05	0.64	0.66	0.45	0.37	0.31	0.43	0.66	0.02	3.5%
SC-70.02	10 min	4354	1.00	1.01	0.07	1.02	1.02	0.75	0.62	0.50	0.73	1.02	0.00	0.0%
SC-71.01	10 min	4363	0.78	0.79	0.06	0.81	0.84	0.56	0.46	0.39	0.55	0.84	0.03	3.6%
SC-71.02	10 min	4354	1.51	1.51	0.11	1.53	1.53	1.16	0.96	0.76	1.14	1.53	0.00	0.0%
SC-72.01	10 min	4363	0.84	0.85	0.07	0.87	0.91	0.60	0.50	0.42	0.59	0.91	0.04	4.3%
SC-73.01	10 min	4363	0.68	0.69	0.06	0.70	0.73	0.51	0.42	0.34	0.50	0.73	0.03	4.6%
SC-74.01	10 min	4363	0.78	0.80	0.07	0.81	0.85	0.57	0.47	0.39	0.56	0.85	0.04	4.7%
SC-75.01	10 min	4364	0.49	0.47	0.04	0.47	0.46	0.39	0.32	0.25	0.38	0.46	-0.01	-1.7%
SC-75.02	10 min	4364	1.91	1.89	0.19	1.91	1.77	1.60	1.32	1.02	1.60	1.77	-0.14	-7.1%
SC-75.03	10 min	4364	2.78	2.71	0.20	2.72	2.68	2.32	1.89	1.48	2.31	2.68	-0.04	-1.5%
SC-75.04	10 min	4354	4.80	4.66	0.34	4.69	4.69	3.94	3.23	2.52	3.90	4.69	0.00	0.0%
SC-76.01	10 min	4364	0.64	0.65	0.07	0.65	0.56	0.55	0.45	0.34	0.55	0.56	-0.09	-14.4%
SC-77.01	10 min	4363	0.92	0.94	0.08	0.96	1.00	0.67	0.55	0.46	0.65	1.00	0.04	3.8%
SC-77.02	10 min	4363	1.39	1.42	0.12	1.45	1.51	1.01	0.83	0.70	0.98	1.51	0.06	3.9%
SC-77.03	10 min	4365	1.98	2.00	0.15	2.01	2.06	1.48	1.22	0.99	1.45	2.06	0.05	2.6%
SC-78.01	10 min	4363	0.87	0.89	0.07	0.90	0.94	0.63	0.52	0.44	0.62	0.94	0.04	4.7%

ARR2019 Results for 1%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	45 min	60 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4429	4533	4558	4611			
SC-79.01	10 min	4368	0.94	0.96	0.07	0.96	0.99	0.70	0.62	0.51	0.73	0.99	0.03	3.3%
SC-79.02	10 min	4368	1.74	1.77	0.14	1.78	1.84	1.30	1.16	0.94	1.34	1.84	0.06	3.2%
SC-79.03	10 min	4361	3.85	3.89	0.28	3.90	3.98	2.97	2.51	2.00	2.96	3.98	0.08	2.0%
SC-8.01	10 min	4361	0.75	0.76	0.05	0.76	0.78	0.59	0.48	0.39	0.58	0.78	0.02	2.2%
SC-8.02	10 min	4354	1.83	1.79	0.13	1.82	1.82	1.45	1.20	0.95	1.45	1.82	0.00	0.0%
SC-8.03	10 min	4354	4.67	4.69	0.31	4.76	4.76	3.71	3.06	2.44	3.68	4.76	0.00	0.0%
SC-8.04	10 min	4361	8.23	8.30	0.58	8.34	8.51	6.49	5.37	4.28	6.45	8.51	0.17	2.0%
SC-8.05	10 min	4368	8.95	9.07	0.58	9.11	9.37	7.30	5.98	4.74	7.16	9.37	0.26	2.9%
SC-8.06	10 min	4363	9.28	9.34	0.52	9.46	9.78	7.75	6.29	4.95	7.51	9.78	0.32	3.4%
SC-80.01	10 min	4363	0.91	0.93	0.08	0.94	0.98	0.66	0.54	0.46	0.64	0.98	0.04	4.3%
SC-80.02	10 min	4354	1.83	1.84	0.13	1.86	1.86	1.40	1.15	0.91	1.37	1.86	0.00	0.2%
SC-81.01	10 min	4354	0.70	0.69	0.05	0.70	0.70	0.53	0.44	0.35	0.52	0.70	0.00	0.4%
SC-81.02	10 min	4354	2.04	2.04	0.14	2.07	2.07	1.56	1.28	1.02	1.54	2.07	0.00	-0.2%
SC-82.01	10 min	4363	0.81	0.83	0.07	0.84	0.87	0.59	0.49	0.40	0.58	0.87	0.03	3.6%
SC-83.01	10 min	4363	0.51	0.52	0.04	0.53	0.55	0.38	0.31	0.26	0.37	0.55	0.02	3.9%
SC-84.01	10 min	4368	0.77	0.78	0.06	0.79	0.81	0.57	0.47	0.38	0.56	0.81	0.02	2.7%
SC-84.02	10 min	4363	1.88	1.92	0.15	1.92	2.00	1.43	1.18	0.95	1.40	2.00	0.08	4.3%
SC-84.03	10 min	4365	2.50	2.53	0.18	2.54	2.62	1.91	1.57	1.26	1.87	2.62	0.08	3.1%
SC-84.04	10 min	4365	2.96	3.00	0.23	3.01	3.10	2.27	1.86	1.49	2.22	3.10	0.09	3.0%
SC-84.05	10 min	4368	3.51	3.56	0.21	3.56	3.68	2.81	2.27	1.78	2.70	3.68	0.12	3.4%
SC-84.06	10 min	4363	3.88	3.92	0.17	3.93	4.03	3.19	2.56	1.95	3.04	4.03	0.10	2.5%
SC-85.01	10 min	4363	0.48	0.49	0.04	0.49	0.51	0.34	0.28	0.24	0.33	0.51	0.02	3.9%
SC-86.01	10 min	4363	0.72	0.73	0.06	0.75	0.78	0.52	0.43	0.36	0.52	0.78	0.03	3.9%
SC-86.02	10 min	4363	1.41	1.43	0.11	1.44	1.50	1.10	1.01	0.83	1.16	1.50	0.06	4.0%
SC-87.01	10 min	4363	1.05	1.07	0.09	1.10	1.14	0.76	0.63	0.53	0.75	1.14	0.04	3.8%
SC-87.02	10 min	4365	1.80	1.83	0.14	1.84	1.89	1.35	1.12	0.91	1.34	1.89	0.05	2.7%
SC-88.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.35	0.29	0.24	0.35	0.51	0.02	4.2%
SC-88.02	10 min	4365	0.78	0.79	0.06	0.80	0.82	0.63	0.54	0.44	0.64	0.82	0.02	2.6%
SC-89.01	10 min	4363	0.52	0.53	0.05	0.54	0.56	0.38	0.31	0.26	0.37	0.56	0.02	3.7%
SC-89.02	10 min	4368	0.57	0.58	0.04	0.59	0.61	0.44	0.36	0.29	0.43	0.61	0.02	2.7%
SC-9.01	10 min	4363	0.68	0.69	0.06	0.71	0.74	0.50	0.41	0.34	0.49	0.74	0.03	3.6%
SC-90.01	10 min	4363	0.21	0.21	0.02	0.21	0.22	0.16	0.13	0.11	0.16	0.22	0.01	6.8%
SC-91.01	10 min	4363	0.61	0.61	0.05	0.64	0.67	0.43	0.36	0.31	0.41	0.67	0.03	4.4%
SC-91.02	10 min	4363	1.28	1.30	0.11	1.31	1.37	0.93	0.78	0.65	0.90	1.37	0.06	4.5%
SC-92.01	10 min	4361	0.62	0.63	0.04	0.63	0.64	0.48	0.39	0.32	0.47	0.64	0.01	1.7%
SC-92.02	10 min	4354	1.76	1.72	0.12	1.75	1.75	1.41	1.19	0.94	1.43	1.75	0.00	-0.1%
SC-93.01	10 min	4363	0.67	0.68	0.05	0.69	0.71	0.49	0.41	0.33	0.48	0.71	0.02	3.5%
SC-94.01	10 min	4363	0.73	0.74	0.06	0.76	0.79	0.52	0.43	0.37	0.50	0.79	0.03	4.6%
SC-94.02	10 min	4368	1.72	1.75	0.14	1.75	1.83	1.28	1.05	0.87	1.24	1.83	0.08	4.4%
SC-95.01	10 min	4363	0.43	0.43	0.04	0.45	0.47	0.30	0.25	0.22	0.29	0.47	0.02	4.6%
SC-95.02	10 min	4363	1.05	1.07	0.09	1.09	1.13	0.75	0.63	0.53	0.73	1.13	0.04	3.9%
SC-96.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.34	0.29	0.24	0.33	0.52	0.02	5.0%
SC-97.01	10 min	4363	0.32	0.33	0.03	0.34	0.36	0.23	0.19	0.16	0.22	0.36	0.02	4.7%
SC-97.02	10 min	4361	1.90	1.92	0.14	1.94	1.96	1.46	1.23	0.99	1.47	1.96	0.02	1.0%
SC-98.01	10 min	4363	0.57	0.58	0.05	0.59	0.61	0.42	0.34	0.28	0.41	0.61	0.02	3.7%
SC-99.01	10 min	4363	0.55	0.56	0.05	0.57	0.60	0.40	0.33	0.28	0.38	0.60	0.03	4.4%
SC-99.02	10 min	4354	1.52	1.51	0.11	1.54	1.54	1.16	0.96	0.75	1.12	1.54	0.00	-0.3%
SC-99.03	10 min	4354	2.64	2.60	0.19	2.64	2.64	2.03	1.67	1.31	1.99	2.64	0.00	-0.2%
SC-99.04	10 min	4361	6.94	7.00	0.47	7.03	7.17	5.54	4.55	3.60	5.43	7.17	0.14	2.0%
Dummy1	15 min	4392	35.21	35.17	2.26	35.32	34.44	32.69	26.15	18.90	31.89	34.44	-0.88	-2.5%
Dummy2	25 min	4394	55.50	55.11	3.58	55.39	46.16	50.75	51.21	39.27	52.29	52.29	-3.11	-5.6%
Dummy3	30 min	4497	107.26	106.76	7.42	106.76	87.48	102.56	98.49	87.48	110.26	110.26	3.50	3.3%
DummyOut	1.50 hour	4465	116.02	113.71	10.70	113.93	87.96	103.13	100.63	110.64	128.32	128.32	14.39	12.6%

ARR2019 Results for 0.5%AEP Event														
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)			Adopted	10 min	15 min	20 min	60 min	120 min		m³/s	%
			Average	Median	Standard Dev									
SC-1.01	10 min	4365	1.00	1.00	0.07	1.01	1.04	0.84	0.96	0.55	0.81	1.04	0.03	2.8%
SC-1.02	10 min	4361	2.16	2.17	0.14	2.19	2.21	1.86	2.04	1.19	1.77	2.21	0.02	0.8%
SC-1.03	10 min	4365	2.54	2.57	0.17	2.58	2.66	2.19	2.46	1.40	2.07	2.66	0.08	3.0%
SC-1.04	10 min	4354	6.85	6.71	0.46	6.81	6.81	6.02	6.29	3.78	5.74	6.81	0.00	0.0%
SC-1.05	10 min	4354	7.32	7.31	0.45	7.41	7.41	6.58	6.81	4.09	6.22	7.41	0.00	0.0%
SC-1.06	10 min	4354	8.43	8.38	0.46	8.47	8.47	7.73	7.68	4.66	7.24	8.47	0.00	0.0%
SC-1.07	10 min	4361	8.55	8.58	0.43	8.65	8.68	7.94	7.85	4.75	7.38	8.68	0.03	0.3%
SC-1.08	45 min	4528	9.59	9.51	0.90	9.83	4.52	6.85	7.96	8.56	10.95	10.95	1.12	11.4%
SC-1.09	45 min	4533	10.31	10.37	0.67	10.50	4.64	7.00	8.10	9.64	11.39	11.39	0.89	8.4%
SC-1.10	45 min	4533	10.42	10.45	0.62	10.52	4.79	7.01	8.11	9.82	11.43	11.43	0.91	8.6%
SC-1.11	10 min	4354	14.94	14.65	0.71	14.76	14.76	13.98	14.74	13.54	15.42	15.42	0.66	4.5%
SC-1.12	10 min	4354	18.66	18.35	0.75	18.47	18.47	17.68	17.24	15.01	17.97	18.47	0.00	0.0%
SC-1.13	10 min	4361	21.10	21.05	0.42	21.13	21.15	20.62	18.64	16.16	20.19	21.15	0.02	0.1%
SC-1.14	10 min	4354	25.26	25.17	0.40	25.20	25.20	24.99	21.95	18.08	23.51	25.20	0.00	0.0%
SC-1.15	10 min	4364	27.45	27.26	0.46	27.27	27.15	27.57	23.66	19.23	25.33	27.57	0.30	1.1%
SC-1.16	15 min	4403	30.73	31.06	0.65	31.08	28.92	31.39	25.84	21.63	28.95	31.39	0.31	1.0%
SC-1.17	15 min	4397	31.24	31.42	0.64	31.43	29.13	31.74	26.13	22.00	29.49	31.74	0.31	1.0%
SC-1.18	45 min	4496	19.62	19.61	0.33	19.77	16.44	18.23	17.75	18.99	19.74	19.74	-0.03	-0.2%
SC-1.19	1 hour	4558	25.36	25.20	0.80	25.27	11.54	14.89	17.54	25.27	24.18	25.27	0.00	0.0%
SC-1.20	1 hour	4558	22.82	22.72	0.33	22.77	11.31	14.15	16.33	22.77	21.67	22.77	0.00	0.0%
SC-1.21	1 hour	4558	22.83	22.74	0.33	22.78	11.32	14.15	16.33	22.78	21.92	22.78	0.00	0.0%
SC-1.22	1 hour	4558	22.91	22.82	0.33	22.85	11.34	14.18	16.37	22.85	22.99	22.99	0.14	0.6%
SC-1.23	1.50 hour	4532	25.63	25.85	1.43	26.09	20.49	20.72	21.63	22.89	26.29	26.29	0.20	0.8%
SC-1.24	20 min	4429	34.48	34.01	2.91	34.25	32.84	34.11	30.32	28.00	37.49	37.49	3.24	9.5%
SC-1.25	25 min	4462	35.05	34.82	2.96	35.16	33.25	34.26	30.40	28.39	38.54	38.54	3.38	9.6%
SC-1.26	25 min	4462	37.83	38.16	2.63	38.27	34.87	37.15	31.83	30.45	41.71	41.71	3.44	9.0%
SC-1.27	25 min	4458	38.51	38.96	2.59	38.99	35.39	37.82	32.61	31.07	42.42	42.42	3.43	8.8%
SC-1.28	15 min	4396	50.90	50.79	0.82	51.12	43.55	51.23	46.57	40.11	54.94	54.94	3.82	7.5%
SC-1.29	25 min	4459	54.06	53.88	2.39	53.91	44.25	52.21	49.68	43.51	58.53	58.53	4.62	8.6%
SC-1.30	25 min	4460	55.10	54.95	2.36	55.25	44.47	52.49	51.44	44.54	59.50	59.50	4.25	7.7%
SC-1.31	25 min	4459	55.73	55.55	2.38	56.05	44.65	52.71	52.29	45.38	60.11	60.11	4.06	7.2%
SC-1.32	25 min	4459	56.77	57.00	2.44	57.19	44.93	53.05	53.34	46.67	60.98	60.98	3.79	6.6%
SC-1.33	30 min	4504	58.91	58.73	3.54	59.11	45.29	53.49	54.68	49.95	62.22	62.22	3.11	5.3%
SC-1.34	30 min	4504	59.20	58.99	3.40	59.17	45.30	53.51	54.78	50.75	62.43	62.43	3.26	5.5%
SC-1.35	30 min	4495	59.60	59.33	3.23	59.37	45.35	53.56	54.94	51.53	62.65	62.65	3.28	5.5%
SC-1.36	30 min	4495	62.07	61.78	2.27	62.53	45.60	53.85	55.74	56.00	64.01	64.01	1.48	2.4%
SC-10.01	10 min	4363	1.02	1.04	0.08	1.05	1.09	0.84	1.01	0.51	0.73	1.09	0.04	3.9%
SC-100.01	10 min	4363	1.18	1.20	0.10	1.24	1.29	0.96	1.19	0.60	0.81	1.29	0.05	4.0%
SC-100.02	10 min	4363	2.06	2.10	0.18	2.12	2.21	1.72	2.04	1.05	1.49	2.21	0.09	4.1%
SC-101.01	10 min	4361	1.27	1.28	0.09	1.29	1.31	1.08	1.22	0.63	0.93	1.31	0.02	1.8%
SC-101.02	10 min	4354	2.25	2.19	0.16	2.22	2.22	1.96	2.06	1.13	1.72	2.22	0.00	-0.1%
SC-102.01	10 min	4363	0.98	1.00	0.08	1.02	1.06	0.81	0.98	0.49	0.69	1.06	0.04	4.2%
SC-102.02	10 min	4354	3.78	3.75	0.25	3.80	3.80	3.35	3.50	1.89	2.85	3.80	0.00	0.0%
SC-103.01	10 min	4363	0.66	0.67	0.06	0.68	0.71	0.54	0.66	0.33	0.46	0.71	0.03	4.4%
SC-103.02	10 min	4354	2.34	2.32	0.18	2.36	2.36	2.04	2.17	1.15	1.71	2.36	0.00	0.0%
SC-104.01	10 min	4363	0.59	0.61	0.05	0.61	0.63	0.50	0.59	0.30	0.41	0.63	0.02	3.9%
SC-105.01	10 min	4368	0.64	0.65	0.05	0.65	0.68	0.54	0.63	0.32	0.45	0.68	0.03	4.0%
SC-105.02	10 min	4354	1.53	1.51	0.12	1.53	1.53	1.35	1.41	0.76	1.13	1.53	0.00	0.3%
SC-105.03	10 min	4354	3.57	3.52	0.27	3.58	3.58	3.14	3.30	1.77	2.64	3.58	0.00	-0.1%
SC-105.04	10 min	4354	4.82	4.74	0.34	4.81	4.81	4.26	4.45	2.38	3.61	4.81	0.00	-0.1%
SC-105.05	10 min	4354	5.82	5.65	0.42	5.74	5.74	5.22	5.26	2.95	4.51	5.74	0.00	-0.1%
SC-105.06	10 min	4354	6.21	6.02	0.45	6.06	6.06	5.79	5.52	3.29	5.10	6.06	0.00	0.1%
SC-105.07	10 min	4354	9.05	8.90	0.48	8.99	8.99	8.86	8.20	5.05	7.86	8.99	0.00	0.0%
SC-105.08	15 min	4400	10.20	10.14	0.84	10.20	10.39	10.20	9.33	5.76	9.09	10.39	0.19	1.9%
SC-105.09	10 min	4356	13.46	13.37	0.19	13.38	13.71	13.55	11.95	7.31	11.89	13.71	0.33	2.4%
SC-106.01	10 min	4363	0.46	0.47	0.04	0.47	0.49	0.38	0.46	0.23	0.32	0.49	0.02	4.9%
SC-107.01	10 min	4368	0.81	0.83	0.06	0.83	0.86	0.68	0.80	0.41	0.57	0.86	0.03	3.4%
SC-108.01	10 min	4363	0.58	0.59	0.05	0.61	0.63	0.48	0.59	0.30	0.40	0.63	0.02	4.0%
SC-109.01	10 min	4363	0.76	0.78	0.06	0.79	0.82	0.63	0.76	0.38	0.54	0.82	0.03	3.5%
SC-11.01	10 min	4368	0.63	0.64	0.05	0.64	0.67	0.53	0.62	0.32	0.44	0.67	0.03	4.4%
SC-110.01	10 min	4363	0.70	0.71	0.06	0.73	0.76	0.58	0.70	0.35	0.50	0.76	0.03	3.8%
SC-110.02	10 min	4354	1.63	1.61	0.12	1.63	1.63	1.41	1.50	0.83	1.25	1.63	0.00	0.0%
SC-110.03	10 min	4354	1.76	1.75	0.12	1.77	1.77	1.56	1.64	0.92	1.38	1.77	0.00	0.1%
SC-111.01	15 min	4401	0.51	0.48	0.08	0.49	0.44	0.54	0.44	0.29	0.48	0.54	0.05	9.8%
SC-112.01	10 min	4363	1.18	1.21	0.10	1.22	1.28	0.98	1.18	0.59	0.87	1.28	0.06	4.7%
SC-113.01	10 min	4363	0.43	0.44	0.03	0.44	0.46	0.36	0.43	0.22	0.31	0.46	0.02	4.5%
SC-113.02	10 min	4354	1.43	1.39	0.10	1.42	1.42	1.24	1.30	0.75	1.14	1.42	0.00	-0.4%
SC-114.01	10 min	4361	0.77	0.77	0.05	0.78	0.79	0.65	0.73	0.42	0.62	0.79	0.01	1.7%
SC														

ARR2019 Results for 0.5%AEP Event														
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	15 min	20 min	60 min	120 min		m³/s	%
			Average	Median	Standard Dev	Adopted								
SC-143.01	20 min	4367	0.66	0.66	0.08	0.67	0.57	0.60	0.67	0.44	0.63	0.67	0.00	-0.3%
SC-143.02	10 min	4364	5.48	5.36	0.52	5.41	5.14	4.88	4.93	3.03	4.59	5.14	-0.27	-5.0%
SC-144.01	10 min	4365	0.78	0.79	0.06	0.80	0.82	0.66	0.76	0.43	0.63	0.82	0.02	2.6%
SC-144.02	10 min	4361	1.12	1.13	0.08	1.13	1.16	0.96	1.07	0.63	0.93	1.16	0.03	2.3%
SC-144.03	10 min	4365	1.50	1.50	0.06	1.50	1.54	1.40	1.39	0.87	1.30	1.54	0.04	2.5%
SC-144.04	10 min	4364	2.67	2.65	0.06	2.66	2.63	2.57	2.26	1.42	2.33	2.63	-0.03	-1.2%
SC-144.05	10 min	4364	4.99	5.00	0.25	5.02	4.74	4.63	4.06	2.61	4.20	4.74	-0.28	-5.7%
SC-145.01	10 min	4363	0.99	1.01	0.09	1.03	1.07	0.83	0.99	0.51	0.70	1.07	0.04	4.2%
SC-145.02	10 min	4368	1.84	1.88	0.17	1.89	1.97	1.57	1.81	0.91	1.31	1.97	0.08	4.0%
SC-146.01	15 min	4401	1.99	1.89	0.27	1.91	1.71	2.10	1.68	1.10	1.88	2.10	0.19	9.8%
SC-147.01	10 min	4364	0.99	1.00	0.11	1.01	0.86	0.91	0.81	0.48	0.80	0.91	-0.10	-10.1%
SC-147.02	10 min	4364	1.35	1.37	0.14	1.38	1.20	1.28	1.12	0.69	1.13	1.28	-0.10	-7.0%
SC-147.03	10 min	4364	3.45	3.45	0.42	3.49	3.03	3.27	2.98	1.80	2.84	3.27	-0.22	-6.3%
SC-148.01	10 min	4365	0.83	0.84	0.06	0.85	0.87	0.70	0.81	0.41	0.59	0.87	0.02	2.3%
SC-148.02	10 min	4364	1.85	1.79	0.20	1.81	1.71	1.70	1.58	0.93	1.42	1.71	-0.11	-5.8%
SC-149.01	10 min	4354	0.60	0.60	0.04	0.61	0.61	0.53	0.59	0.37	0.54	0.61	0.00	-0.3%
SC-149.02	10 min	4364	2.00	1.96	0.22	1.99	1.82	1.84	1.78	1.08	1.65	1.84	-0.16	-7.8%
SC-15.01	10 min	4363	1.18	1.21	0.10	1.22	1.28	0.98	1.18	0.59	0.87	1.28	0.06	4.7%
SC-15.02	10 min	4363	1.56	1.58	0.13	1.60	1.67	1.30	1.55	0.80	1.16	1.67	0.07	4.5%
SC-15.03	10 min	4365	2.49	2.52	0.19	2.54	2.61	2.11	2.41	1.28	1.89	2.61	0.07	2.9%
SC-150.01	10 min	4363	0.71	0.72	0.06	0.73	0.77	0.58	0.71	0.36	0.50	0.77	0.04	4.8%
SC-150.02	10 min	4368	1.39	1.42	0.11	1.42	1.47	1.17	1.36	0.71	1.05	1.47	0.05	3.5%
SC-150.03	10 min	4361	3.56	3.59	0.26	3.61	3.67	3.06	3.39	1.82	2.71	3.67	0.06	1.6%
SC-150.04	10 min	4365	4.61	4.65	0.32	4.67	4.79	4.04	4.41	2.38	3.55	4.79	0.12	2.6%
SC-150.05	10 min	4361	6.41	6.46	0.41	6.46	6.59	5.68	6.01	3.33	5.03	6.59	0.13	1.9%
SC-150.06	10 min	4354	11.83	11.82	0.59	11.93	11.93	10.63	10.81	6.19	9.55	11.93	0.00	0.0%
SC-150.07	10 min	4354	18.66	18.30	1.11	18.49	18.49	16.83	17.03	9.81	15.30	18.49	0.00	0.0%
SC-150.08	2 hours	4611	11.06	11.39	2.58	12.20	0.35	0.41	3.02	10.72	12.20	12.20	0.00	0.0%
SC-150.09	2 hours	4611	11.71	11.86	2.72	12.58	2.89	2.54	3.10	11.35	12.58	12.58	0.00	0.0%
SC-150.10	2 hours	4611	14.09	14.42	3.26	15.57	7.42	7.32	6.61	13.72	15.58	15.58	0.00	0.0%
SC-150.11	10 min	4354	20.22	20.10	0.78	20.21	20.21	19.14	17.97	18.25	19.29	20.21	0.00	0.0%
SC-150.12	10 min	4354	31.70	31.75	1.06	31.92	31.92	30.25	28.35	23.09	27.81	31.92	0.00	0.0%
SC-150.13	15 min	4392	36.01	35.92	1.50	36.06	36.45	35.79	32.60	25.15	32.85	36.45	0.39	1.1%
SC-150.14	15 min	4407	54.33	53.89	1.65	54.23	51.79	53.19	47.08	34.42	51.55	53.19	-1.04	-1.9%
SC-150.15	15 min	4407	54.96	54.46	1.63	54.60	52.26	53.77	48.17	34.84	52.34	53.77	-0.83	-1.5%
SC-150.16	15 min	4397	57.30	57.19	1.72	57.27	54.02	55.80	51.93	36.74	55.21	55.80	-1.47	-2.6%
SC-150.17	15 min	4397	58.06	58.14	1.88	58.19	54.58	56.36	54.39	38.18	56.28	56.36	-1.83	-3.1%
SC-151.01	10 min	4363	0.95	0.96	0.08	0.99	1.03	0.78	0.95	0.48	0.67	1.03	0.04	3.7%
SC-151.02	10 min	4368	1.47	1.50	0.11	1.51	1.55	1.24	1.44	0.75	1.09	1.55	0.04	2.8%
SC-152.01	10 min	4363	0.84	0.86	0.07	0.87	0.91	0.70	0.84	0.42	0.62	0.91	0.04	4.1%
SC-153.01	10 min	4363	0.68	0.69	0.06	0.70	0.73	0.56	0.67	0.35	0.50	0.73	0.03	3.9%
SC-153.02	10 min	4361	1.62	1.64	0.12	1.64	1.69	1.40	1.56	0.86	1.25	1.69	0.05	3.0%
SC-154.01	10 min	4368	1.27	1.29	0.10	1.30	1.35	1.07	1.24	0.67	0.99	1.35	0.05	3.6%
SC-154.02	10 min	4354	4.28	4.26	0.28	4.31	4.31	3.74	3.99	2.31	3.47	4.31	0.00	0.0%
SC-155.01	10 min	4355	0.49	0.47	0.04	0.47	0.47	0.43	0.43	0.24	0.38	0.47	0.00	-0.7%
SC-155.02	10 min	4354	1.36	1.34	0.09	1.36	1.36	1.17	1.26	0.70	1.07	1.36	0.00	0.0%
SC-156.01	10 min	4363	0.52	0.53	0.04	0.53	0.55	0.43	0.51	0.26	0.39	0.55	0.02	4.5%
SC-157.01	10 min	4365	0.61	0.62	0.05	0.62	0.64	0.51	0.59	0.32	0.46	0.64	0.02	2.9%
SC-158.01	10 min	4363	0.80	0.82	0.07	0.84	0.87	0.66	0.81	0.40	0.57	0.87	0.03	3.7%
SC-158.02	10 min	4365	1.04	1.06	0.08	1.07	1.10	0.89	1.02	0.53	0.77	1.10	0.03	3.0%
SC-158.03	10 min	4361	2.27	2.29	0.16	2.32	2.32	1.96	2.15	1.17	1.74	2.32	0.00	0.1%
SC-158.04	10 min	4365	4.24	4.29	0.32	4.29	4.42	3.63	4.09	2.19	3.25	4.42	0.13	3.0%
SC-159.01	10 min	4363	0.64	0.65	0.05	0.66	0.69	0.53	0.64	0.32	0.46	0.69	0.03	4.2%
SC-16.01	10 min	4363	0.77	0.78	0.07	0.80	0.83	0.63	0.77	0.39	0.54	0.83	0.03	3.7%
SC-160.01	10 min	4363	0.62	0.63	0.05	0.64	0.67	0.51	0.62	0.31	0.44	0.67	0.03	4.4%
SC-160.02	10 min	4365	1.41	1.43	0.10	1.43	1.48	1.20	1.36	0.71	1.06	1.48	0.05	3.3%
SC-161.01	10 min	4363	0.75	0.77	0.06	0.78	0.82	0.62	0.76	0.38	0.53	0.82	0.04	4.8%
SC-161.02	10 min	4365	1.45	1.47	0.11	1.48	1.52	1.22	1.41	0.74	1.08	1.52	0.04	2.9%
SC-162.01	10 min	4363	0.89	0.91	0.07	0.91	0.95	0.75	0.88	0.46	0.67	0.95	0.04	4.9%
SC-163.01	10 min	4364	0.53	0.52	0.05	0.52	0.49	0.47	0.46	0.28	0.44	0.49	-0.03	-5.1%
SC-163.02	10 min	4364	1.02	0.99	0.08	0.99	0.97	0.90	0.90	0.53	0.82	0.97	-0.02	-1.6%
SC-163.03	10 min	4354	1.64	1.59	0.12	1.61	1.61	1.44	1.48	0.86	1.33	1.61	0.00	-0.1%
SC-163.04	10 min	4354	2.27	2.26	0.15	2.29	2.29	1.96	2.12	1.20	1.81	2.29	0.00	-0.1%
SC-163.05	10 min	4354	3.91	3.90	0.26	3.96	3.96	3.42	3.66	2.08	3.15	3.96	0.00	-0.1%
SC-164.01	10 min	4365	0.77	0.79	0.06	0.79	0.82	0.65	0.75	0.40	0.58	0.82	0.03	3.2%
SC-165.01	10 min	4368	0.66	0.67	0.06	0.68	0.70	0.56	0.65	0.34	0.50	0.70	0.02	3.5%
SC-165.02	10 min	4363	1.71	1.74	0.14	1.74	1.82	1.44	1.68	0.89	1.29	1.82	0.08	4.6%
SC-165.03	10 min	4365	2.22	2.26	0.18	2.27	2.34	1.89	2.16	1.18	1.70	2.34	0.07	3.0%
SC-165.04	10 min	4361	4.80	4.84	0.29	4.85	4.95	4.27	4.54	2.51.				

ARR2019 Results for 0.5%AEP Event														
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	15 min	20 min	60 min	120 min			
			Average	Median	Standard Dev	Adopted								
SC-185.02	10 min	4365	2.01	2.04	0.16	2.05	2.12	1.70	1.95	1.01	1.50	2.12	0.07	3.2%
SC-186.01	10 min	4363	0.31	0.32	0.03	0.32	0.34	0.26	0.31	0.17	0.24	0.34	0.02	5.6%
SC-187.01	10 min	4363	0.90	0.92	0.08	0.94	0.98	0.75	0.90	0.46	0.64	0.98	0.04	3.8%
SC-187.02	10 min	4368	1.78	1.81	0.14	1.82	1.88	1.49	1.73	0.90	1.33	1.88	0.05	3.0%
SC-187.03	10 min	4363	2.07	2.10	0.14	2.13	2.21	1.81	2.03	1.07	1.59	2.21	0.08	3.8%
SC-187.04	10 min	4366	2.69	2.65	0.10	2.67	2.81	2.44	2.51	1.34	2.08	2.81	0.14	5.4%
SC-187.05	10 min	4356	3.18	3.17	0.08	3.18	3.27	2.92	2.87	1.53	2.46	3.27	0.09	2.8%
SC-188.01	10 min	4363	0.95	0.97	0.08	0.99	1.03	0.79	0.95	0.48	0.67	1.03	0.04	3.6%
SC-188.02	10 min	4361	1.43	1.44	0.10	1.44	1.48	1.22	1.37	0.71	1.05	1.48	0.04	2.8%
SC-189.01	10 min	4363	1.08	1.10	0.09	1.12	1.17	0.89	1.08	0.54	0.76	1.17	0.05	4.2%
SC-189.02	10 min	4363	1.93	1.97	0.16	1.98	2.06	1.62	1.91	1.00	1.45	2.06	0.08	4.1%
SC-19.01	10 min	4354	0.46	0.45	0.04	0.45	0.45	0.42	0.41	0.23	0.35	0.45	0.00	-0.6%
SC-190.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.40	0.47	0.24	0.32	0.51	0.02	3.4%
SC-191.01	10 min	4363	0.86	0.88	0.07	0.90	0.93	0.71	0.86	0.44	0.61	0.93	0.03	3.7%
SC-191.02	10 min	4365	1.26	1.28	0.09	1.28	1.32	1.07	1.22	0.63	0.93	1.32	0.04	3.0%
SC-191.03	10 min	4361	2.34	2.36	0.16	2.38	2.41	2.00	2.23	1.20	1.79	2.41	0.03	1.3%
SC-191.04	10 min	4361	3.42	3.45	0.25	3.47	3.54	2.93	3.27	1.75	2.61	3.54	0.07	2.0%
SC-191.05	10 min	4361	4.75	4.79	0.31	4.84	4.85	4.16	4.42	2.43	3.72	4.85	0.01	0.2%
SC-191.06	10 min	4354	8.17	8.19	0.49	8.29	8.29	7.29	7.63	4.59	6.84	8.29	0.00	0.0%
SC-191.07	10 min	4354	9.93	9.79	0.55	9.89	9.89	9.10	8.97	5.55	8.51	9.89	0.00	0.0%
SC-191.08	10 min	4363	10.71	10.82	0.52	10.85	11.08	10.39	9.90	6.22	9.63	11.08	0.23	2.1%
SC-192.01	10 min	4365	2.75	2.81	0.22	2.82	2.91	2.33	2.68	1.46	2.12	2.91	0.09	3.3%
SC-193.01	10 min	4365	1.26	1.27	0.09	1.28	1.32	1.06	1.22	0.68	1.01	1.32	0.04	3.2%
SC-194.01	10 min	4354	1.30	1.27	0.09	1.28	1.28	1.21	1.23	0.76	1.16	1.28	0.00	-0.2%
SC-194.02	20 min	4429	5.34	5.27	0.48	5.30	3.73	4.84	5.18	3.61	5.25	5.25	-0.05	-0.9%
SC-194.03	20 min	4429	5.60	5.46	0.41	5.51	4.30	5.04	5.36	4.06	5.98	5.98	0.47	8.5%
SC-195.01	20 min	4433	1.85	1.85	0.15	1.85	1.24	1.69	1.74	1.20	1.79	1.79	-0.06	-3.4%
SC-196.01	10 min	4361	4.15	4.18	0.28	4.22	4.26	3.59	3.92	2.42	3.57	4.26	0.04	0.8%
SC-197.01	10 min	4364	2.78	2.71	0.20	2.71	2.68	2.58	2.55	1.58	2.43	2.68	-0.03	-1.2%
SC-198.01	20 min	4399	2.70	2.61	0.30	2.61	2.21	2.82	2.31	1.53	2.56	2.82	0.21	8.2%
SC-2.01	10 min	4364	0.60	0.58	0.04	0.58	0.58	0.54	0.54	0.33	0.51	0.58	0.00	-0.8%
SC-20.01	10 min	4363	0.59	0.60	0.05	0.60	0.63	0.49	0.58	0.30	0.41	0.63	0.03	4.4%
SC-200.01	10 min	4365	0.85	0.86	0.07	0.87	0.90	0.72	0.83	0.45	0.65	0.90	0.03	3.1%
SC-200.02	10 min	4363	1.50	1.52	0.12	1.53	1.59	1.26	1.47	0.82	1.17	1.59	0.06	4.2%
SC-200.03	10 min	4361	2.81	2.83	0.20	2.86	2.89	2.42	2.68	1.58	2.29	2.89	0.03	1.1%
SC-200.04	10 min	4354	4.19	4.12	0.31	4.18	4.18	3.67	3.85	2.30	3.41	4.18	0.00	0.1%
SC-200.05	10 min	4354	6.76	6.76	0.41	6.85	6.85	6.00	6.27	3.59	5.36	6.85	0.00	0.1%
SC-200.06	10 min	4364	10.55	10.37	0.77	10.45	10.01	9.86	8.96	5.71	8.96	10.01	-0.44	-4.2%
SC-200.07	10 min	4364	12.33	12.19	0.87	12.28	11.66	11.80	10.40	6.73	10.72	11.80	-0.48	-3.9%
SC-200.08	10 min	4364	14.10	13.78	0.79	13.86	13.62	13.91	11.77	7.75	12.41	13.91	0.05	0.3%
SC-200.09	10 min	4363	20.55	20.53	0.19	20.54	20.55	21.19	17.36	11.16	18.32	21.19	0.65	3.1%
SC-201.01	10 min	4363	1.07	1.09	0.09	1.11	1.16	0.88	1.07	0.54	0.76	1.16	0.05	4.4%
SC-202.01	10 min	4363	1.09	1.10	0.10	1.14	1.19	0.88	1.10	0.55	0.74	1.19	0.05	4.3%
SC-203.01	10 min	4368	1.10	1.13	0.08	1.13	1.17	0.93	1.08	0.55	0.81	1.17	0.04	3.4%
SC-204.01	10 min	4364	1.49	1.47	0.16	1.49	1.37	1.34	1.28	0.77	1.20	1.37	-0.12	-8.3%
SC-205.01	20 min	4433	0.62	0.60	0.08	0.60	0.52	0.63	0.57	0.37	0.59	0.63	0.03	5.1%
SC-206.01	10 min	4364	4.76	4.82	0.46	4.86	4.23	4.52	3.99	2.45	4.06	4.52	-0.34	-7.0%
SC-207.01	10 min	4363	1.04	1.06	0.09	1.06	1.11	0.87	1.02	0.53	0.75	1.11	0.05	4.8%
SC-207.02	10 min	4361	2.03	2.05	0.15	2.06	2.10	1.75	1.95	1.05	1.54	2.10	0.04	1.9%
SC-207.03	10 min	4361	2.26	2.27	0.17	2.30	2.32	1.98	2.13	1.19	1.78	2.32	0.02	0.8%
SC-207.04	10 min	4354	6.28	6.22	0.28	6.27	6.27	5.72	5.70	3.26	5.09	6.27	0.00	0.0%
SC-207.05	10 min	4354	8.40	8.27	0.31	8.27	8.27	7.77	7.37	4.30	6.90	8.27	0.00	0.0%
SC-207.06	10 min	4364	9.09	9.05	0.20	9.07	8.97	8.52	7.93	4.61	7.45	8.97	-0.11	-1.2%
SC-207.07	10 min	4364	15.16	15.20	0.82	15.27	14.33	14.60	12.22	8.25	13.58	14.60	-0.67	-4.4%
SC-207.08	10 min	4364	22.89	22.59	0.70	22.65	22.49	22.40	19.63	12.49	20.21	22.49	-0.16	-0.7%
SC-207.09	10 min	4354	26.14	25.96	0.60	25.98	25.98	26.14	22.50	14.36	23.55	26.14	0.16	0.6%
SC-207.10	10 min	4354	26.73	26.55	0.52	26.56	26.56	27.02	23.25	14.96	24.53	27.02	0.46	1.7%
SC-207.11	15 min	4393	28.80	28.91	1.02	28.94	28.28	29.22	24.86	16.25	26.67	29.22	0.28	1.0%
SC-207.12	15 min	4358	41.46	41.44	2.12	41.88	41.17	42.35	36.08	23.07	37.92	42.35	0.47	1.1%
SC-207.13	15 min	4358	43.73	43.81	1.90	44.27	43.11	44.90	37.88	24.69	40.46	44.90	0.63	1.4%
SC-207.14	15 min	4358	45.20	45.37	1.55	45.46	44.14	46.27	39.06	25.82	42.09	46.27	0.81	1.8%
SC-208.01	10 min	4363	1.11	1.12	0.10	1.17	1.22	0.90	1.12	0.56	0.75	1.22	0.05	3.8%
SC-208.02	10 min	4363	1.58	1.62	0.13	1.63	1.70	1.32	1.58	0.81	1.13	1.70	0.07	4.4%
SC-208.03	10 min	4363	2.12	2.16	0.18	2.17	2.26	1.78	2.09	1.08	1.55	2.26	0.09	4.2%
SC-208.04	10 min	4365	3.34	3.37	0.20	3.38	3.45	2.91	3.13	1.67	2.57	3.45	0.07	2.0%
SC-208.05	10 min	4365	3.85	3.87	0.13	3.87	3.91	3.44	3.49	1.93	3.02	3.91	0.04	1.1%
SC-209.01	10 min	4363	0.70	0.71	0.06	0.72	0.75	0.58	0.69	0.37	0.52	0.75	0.03	3.7%
SC-21.01	10 min	4363	0.84	0.85	0.07	0.87	0.90	0.69	0.84	0.42	0.59	0.90	0.03	3.8%
SC-210.01	10 min	4363	1.56	1.59										

ARR2019 Results for 0.5%AEP Event														
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	15 min	20 min	60 min	120 min			
			Average	Median	Standard Dev	Adopted								
SC-237.01	10 min	4363	0.53	0.54	0.04	0.55	0.57	0.44	0.53	0.27	0.39	0.57	0.02	4.1%
SC-237.02	10 min	4364	1.17	1.13	0.10	1.14	1.11	1.09	1.10	0.68	1.04	1.11	-0.03	-2.3%
SC-238.01	10 min	4363	0.35	0.35	0.03	0.36	0.37	0.28	0.35	0.17	0.24	0.37	0.01	4.1%
SC-238.02	10 min	4361	0.80	0.80	0.06	0.81	0.82	0.69	0.76	0.40	0.60	0.82	0.01	0.8%
SC-239.01	10 min	4363	0.45	0.45	0.04	0.46	0.48	0.37	0.44	0.22	0.31	0.48	0.02	3.5%
SC-24.01	10 min	4363	0.54	0.55	0.05	0.55	0.58	0.44	0.53	0.27	0.38	0.58	0.03	4.9%
SC-240.01	20 min	4433	1.21	1.20	0.12	1.21	0.86	1.14	1.14	0.76	1.16	1.16	-0.05	-4.0%
SC-240.02	20 min	4429	1.77	1.71	0.16	1.73	1.35	1.64	1.69	1.14	1.71	1.71	-0.02	-1.1%
SC-241.01	10 min	4364	5.25	5.31	0.32	5.34	4.88	5.28	4.30	2.70	4.70	5.28	-0.06	-1.1%
SC-242.01	10 min	4363	0.62	0.63	0.05	0.63	0.66	0.52	0.61	0.33	0.46	0.66	0.03	4.7%
SC-242.02	10 min	4365	1.60	1.62	0.12	1.62	1.67	1.38	1.54	0.84	1.23	1.67	0.05	3.0%
SC-242.03	10 min	4361	2.39	2.41	0.18	2.42	2.47	2.05	2.29	1.25	1.84	2.47	0.05	2.1%
SC-242.04	10 min	4361	2.53	2.56	0.19	2.56	2.63	2.20	2.43	1.33	1.96	2.63	0.07	2.8%
SC-242.05	10 min	4354	5.64	5.62	0.37	5.69	5.69	4.95	5.18	2.86	4.37	5.69	0.00	-0.1%
SC-242.06	10 min	4354	7.42	7.21	0.47	7.25	7.25	6.63	6.60	3.75	5.89	7.25	0.00	-0.1%
SC-242.07	10 min	4354	8.02	7.77	0.50	7.79	7.79	7.30	7.03	4.07	6.45	7.79	0.00	0.0%
SC-242.08	10 min	4364	15.57	15.46	0.84	15.50	14.76	14.93	12.47	7.95	12.98	14.93	-0.57	-3.7%
SC-243.01	10 min	4363	0.58	0.59	0.05	0.61	0.64	0.48	0.59	0.29	0.41	0.64	0.03	4.2%
SC-243.02	10 min	4365	2.16	2.19	0.17	2.21	2.27	1.83	2.10	1.09	1.59	2.27	0.06	2.7%
SC-244.01	10 min	4363	0.82	0.84	0.07	0.86	0.90	0.67	0.83	0.41	0.57	0.90	0.04	4.1%
SC-245.01	10 min	4363	0.43	0.44	0.04	0.45	0.47	0.36	0.43	0.22	0.31	0.47	0.02	4.3%
SC-246.01	10 min	4363	0.29	0.30	0.03	0.30	0.32	0.24	0.29	0.15	0.21	0.32	0.02	5.2%
SC-246.02	10 min	4364	0.81	0.78	0.08	0.78	0.75	0.72	0.70	0.41	0.63	0.75	-0.03	-3.8%
SC-247.01	10 min	4354	0.80	0.80	0.06	0.81	0.81	0.69	0.75	0.40	0.60	0.81	0.00	0.0%
SC-247.02	10 min	4364	2.03	2.06	0.24	2.08	1.77	1.88	1.72	1.04	1.69	1.88	-0.20	-9.5%
SC-248.01	10 min	4364	1.02	1.03	0.10	1.04	0.90	0.96	0.81	0.49	0.84	0.96	-0.08	-8.1%
SC-249.01	20 min	4433	0.24	0.24	0.02	0.24	0.17	0.23	0.22	0.15	0.23	0.23	-0.01	-4.8%
SC-249.02	20 min	4371	0.71	0.68	0.10	0.69	0.62	0.68	0.69	0.44	0.66	0.69	0.00	-0.1%
SC-249.03	10 min	4357	1.46	1.41	0.11	1.42	1.41	1.33	1.36	0.85	1.29	1.41	-0.01	-1.0%
SC-249.04	10 min	4354	3.57	3.48	0.24	3.53	3.53	3.15	3.26	1.99	3.01	3.53	0.00	-0.1%
SC-249.05	10 min	4354	10.58	10.26	0.71	10.32	10.32	9.41	9.32	5.63	8.73	10.32	0.00	0.0%
SC-249.06	10 min	4364	17.76	17.73	0.90	17.78	16.86	17.71	14.30	9.67	15.81	17.71	-0.07	-0.4%
SC-25.01	10 min	4363	1.63	1.66	0.14	1.69	1.76	1.34	1.63	0.82	1.14	1.76	0.07	4.3%
SC-25.02	10 min	4365	2.34	2.36	0.17	2.37	2.43	1.99	2.25	1.17	1.71	2.43	0.06	2.7%
SC-25.03	10 min	4368	2.54	2.59	0.19	2.60	2.68	2.19	2.48	1.29	1.89	2.68	0.08	3.1%
SC-25.04	10 min	4361	4.30	4.33	0.32	4.36	4.44	3.67	4.10	2.19	3.27	4.44	0.08	1.8%
SC-250.01	10 min	4363	0.19	0.19	0.02	0.19	0.20	0.16	0.18	0.10	0.14	0.20	0.01	5.1%
SC-251.01	10 min	4363	0.46	0.47	0.04	0.47	0.49	0.38	0.45	0.23	0.34	0.49	0.02	3.8%
SC-252.01	10 min	4365	0.53	0.54	0.04	0.54	0.55	0.45	0.51	0.29	0.43	0.55	0.01	2.4%
SC-252.02	10 min	4368	0.99	1.00	0.08	1.01	1.04	0.83	0.96	0.52	0.76	1.04	0.03	3.3%
SC-253.01	10 min	4363	0.77	0.79	0.07	0.80	0.84	0.64	0.77	0.39	0.55	0.84	0.04	4.8%
SC-253.02	10 min	4365	2.81	2.84	0.21	2.86	2.94	2.39	2.73	1.45	2.14	2.94	0.08	2.9%
SC-253.03	10 min	4365	3.42	3.48	0.28	3.50	3.60	2.90	3.33	1.78	2.60	3.60	0.10	2.9%
SC-254.01	10 min	4363	0.78	0.80	0.07	0.81	0.84	0.65	0.78	0.40	0.58	0.84	0.03	3.9%
SC-255.01	10 min	4361	0.74	0.75	0.05	0.75	0.77	0.63	0.71	0.41	0.61	0.77	0.02	2.4%
SC-256.01	10 min	4365	0.65	0.66	0.05	0.66	0.68	0.55	0.63	0.33	0.49	0.68	0.02	3.4%
SC-257.01	10 min	4365	0.37	0.37	0.03	0.37	0.38	0.31	0.36	0.18	0.27	0.38	0.01	3.9%
SC-258.01	10 min	4361	1.68	1.69	0.12	1.72	1.72	1.45	1.60	0.83	1.23	1.72	0.00	0.0%
SC-258.02	10 min	4364	2.81	2.86	0.36	2.89	2.41	2.56	2.44	1.48	2.34	2.56	-0.33	-11.5%
SC-259.01	10 min	4363	0.71	0.73	0.06	0.74	0.77	0.59	0.71	0.37	0.52	0.77	0.03	4.4%
SC-259.02	10 min	4361	1.50	1.52	0.11	1.52	1.56	1.29	1.45	0.79	1.15	1.56	0.04	2.8%
SC-259.03	10 min	4365	2.13	2.15	0.17	2.16	2.23	1.83	2.06	1.11	1.63	2.23	0.07	3.1%
SC-259.04	10 min	4365	3.86	3.90	0.30	3.92	4.03	3.31	3.73	2.02	2.95	4.03	0.11	2.9%
SC-259.05	10 min	4361	4.74	4.78	0.36	4.80	4.92	4.08	4.54	2.47	3.65	4.92	0.12	2.5%
SC-259.06	10 min	4365	6.10	6.16	0.47	6.18	6.36	5.32	5.86	3.19	4.73	6.36	0.18	2.9%
SC-259.07	10 min	4356	7.86	7.76	0.36	7.78	8.30	7.34	7.41	4.04	6.13	8.30	0.52	6.6%
SC-259.08	10 min	4356	9.31	9.28	0.28	9.30	9.62	8.69	8.47	4.61	7.26	9.62	0.32	3.4%
SC-259.09	10 min	4356	24.49	24.43	0.34	24.46	24.88	24.11	21.61	12.97	21.14	24.88	0.42	1.7%
SC-259.10	10 min	4356	24.87	24.84	0.30	24.86	25.21	24.46	21.95	13.25	21.66	25.21	0.35	1.4%
SC-26.01	10 min	4363	0.50	0.51	0.04	0.51	0.54	0.42	0.50	0.25	0.36	0.54	0.03	4.9%
SC-260.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.39	0.47	0.24	0.34	0.51	0.02	4.8%
SC-261.01	10 min	4363	0.60	0.62	0.05	0.62	0.65	0.51	0.60	0.32	0.45	0.65	0.03	4.2%
SC-262.01	10 min	4363	0.69	0.70	0.06	0.72	0.75	0.57	0.69	0.35	0.50	0.75	0.03	3.9%
SC-262.02	10 min	4365	1.26	1.28	0.10	1.29	1.33	1.06	1.23	0.64	0.94	1.33	0.04	2.9%
SC-263.01	10 min	4363	0.73	0.75	0.06	0.76	0.79	0.61	0.73	0.37	0.54	0.79	0.03	3.8%
SC-264.01	10 min	4363	0.40	0.41	0.03	0.42	0.43	0.33	0.40	0.20	0.28	0.43	0.01	3.5%
SC-265.01	10 min	4363	0.53	0.54	0.04	0.55	0.57	0.44	0.53	0.27	0.40	0.57	0.02	3.8%
SC-265.02	15 min	4400	1.36	1.27	0.23	1.30	1.28	1.30	1.31	0.80	1.23	1.31	0.01	0.5%
SC-265.03	15 min	4401	2.36	2.25	0.28	2.29	2.24	2.46	1.99	1.36	2.18	2.46	0.17	7.3%
SC-265.04	10 min													

ARR2019 Results for 0.5%AEP Event															
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns							Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m³/s)					Max of the Reduced Set (m³/s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m³/s)				10 min	15 min	20 min	60 min	120 min				
			Average	Median	Standard Dev	Adopted						4354		4400	4371
SC-4.01	20 min	4429	0.70	0.66	0.09	0.66	0.62	0.71	0.63	0.40	0.65	0.71	0.05	8.1%	
SC-40.01	10 min	4363	0.69	0.70	0.06	0.72	0.75	0.56	0.69	0.35	0.47	0.75	0.03	4.6%	
SC-41.01	10 min	4363	0.45	0.45	0.04	0.47	0.49	0.36	0.46	0.23	0.30	0.49	0.02	4.6%	
SC-42.01	10 min	4363	1.53	1.55	0.14	1.61	1.67	1.24	1.55	0.77	1.04	1.67	0.06	4.0%	
SC-43.01	10 min	4363	0.33	0.33	0.03	0.35	0.37	0.26	0.34	0.17	0.22	0.37	0.02	4.4%	
SC-44.01	10 min	4363	1.06	1.08	0.09	1.10	1.15	0.87	1.06	0.53	0.75	1.15	0.04	4.1%	
SC-44.02	10 min	4361	1.70	1.72	0.12	1.72	1.77	1.46	1.64	0.85	1.27	1.77	0.04	2.6%	
SC-44.03	10 min	4361	2.34	2.36	0.16	2.36	2.42	2.00	2.24	1.18	1.75	2.42	0.06	2.5%	
SC-44.04	10 min	4361	3.57	3.60	0.26	3.65	3.65	3.08	3.37	1.83	2.74	3.65	0.00	0.0%	
SC-44.05	10 min	4361	6.24	6.28	0.37	6.32	6.40	5.52	5.85	3.19	4.86	6.40	0.07	1.2%	
SC-44.06	10 min	4365	6.65	6.66	0.33	6.67	6.81	6.01	6.17	3.42	5.30	6.81	0.14	2.1%	
SC-44.07	10 min	4354	7.51	7.42	0.21	7.43	7.43	6.28	6.43	3.88	6.36	7.43	0.00	0.0%	
SC-44.08	10 min	4364	9.63	9.54	0.32	9.57	9.36	9.29	7.97	4.76	8.18	9.36	-0.22	-2.2%	
SC-44.09	10 min	4364	10.14	10.11	0.23	10.13	9.98	10.18	8.46	5.28	9.05	10.18	0.05	0.5%	
SC-44.10	15 min	4720	0.74	0.74	0.01	0.74	0.67	0.69	0.70	0.75	0.78	0.78	0.03	4.3%	
SC-44.11	15 min	4533	12.34	12.15	1.23	12.73	2.65	8.46	11.10	10.82	16.21	16.21	3.48	27.3%	
SC-44.12	15 min	4787	0.72	0.74	0.07	0.73	0.00	0.00	0.00	0.00	0.80	0.80	0.07	8.9%	
SC-44.13	15 min	4747	0.68	0.68	0.02	0.68	0.17	0.22	0.24	0.32	0.79	0.79	0.11	15.9%	
SC-44.14	15 min	4747	1.52	1.52	0.07	1.53	0.52	0.95	1.22	1.55	1.56	1.56	0.03	2.1%	
SC-44.15	15 min	4747	2.63	2.64	0.03	2.64	2.27	2.41	2.47	2.74	2.72	2.74	0.09	3.5%	
SC-44.16	15 min	4747	2.69	2.70	0.03	2.70	2.36	2.51	2.55	2.79	2.76	2.79	0.08	3.1%	
SC-44.17	15 min	4401	9.10	8.83	0.85	8.93	8.69	9.27	8.15	6.32	8.68	9.27	0.34	3.8%	
SC-44.18	15 min	4401	9.51	9.44	0.73	9.54	8.87	9.61	8.36	6.72	9.31	9.61	0.07	0.7%	
SC-44.19	15 min	4401	10.70	10.77	0.54	10.89	10.14	11.16	8.95	7.46	10.54	11.16	0.27	2.5%	
SC-44.20	25 min	4466	9.88	9.88	0.47	9.89	8.84	9.75	8.65	7.71	10.03	10.03	0.14	1.4%	
SC-45.01	10 min	4361	0.80	0.80	0.05	0.81	0.82	0.67	0.76	0.41	0.61	0.82	0.01	0.8%	
SC-46.01	10 min	4363	0.64	0.65	0.05	0.66	0.68	0.53	0.63	0.32	0.46	0.68	0.02	3.6%	
SC-46.02	10 min	4354	1.11	1.10	0.08	1.12	1.12	0.96	1.04	0.55	0.83	1.12	0.00	-0.2%	
SC-46.03	10 min	4361	1.66	1.67	0.11	1.69	1.69	1.42	1.57	0.84	1.26	1.69	0.00	0.1%	
SC-46.04	10 min	4361	1.87	1.88	0.14	1.90	1.93	1.61	1.78	0.95	1.43	1.93	0.03	1.3%	
SC-47.01	10 min	4363	1.04	1.06	0.09	1.07	1.12	0.86	1.04	0.52	0.75	1.12	0.05	4.7%	
SC-48.01	10 min	4363	0.78	0.80	0.07	0.81	0.84	0.64	0.78	0.39	0.56	0.84	0.03	4.3%	
SC-48.02	10 min	4354	1.25	1.26	0.09	1.28	1.28	1.08	1.18	0.62	0.93	1.28	0.00	-0.2%	
SC-49.01	10 min	4363	0.88	0.90	0.07	0.91	0.94	0.73	0.88	0.44	0.61	0.94	0.03	3.7%	
SC-5.01	10 min	4354	0.56	0.56	0.04	0.57	0.57	0.48	0.53	0.28	0.42	0.57	0.00	-0.3%	
SC-50.01	10 min	4364	0.31	0.30	0.03	0.31	0.30	0.29	0.27	0.16	0.24	0.30	-0.01	-4.5%	
SC-51.01	10 min	4365	0.31	0.31	0.03	0.31	0.32	0.27	0.30	0.15	0.22	0.32	0.01	4.1%	
SC-52.01	10 min	4368	0.31	0.32	0.03	0.32	0.33	0.26	0.31	0.16	0.21	0.33	0.01	2.9%	
SC-53.01	10 min	4363	0.76	0.77	0.06	0.78	0.81	0.63	0.75	0.38	0.54	0.81	0.03	4.4%	
SC-53.02	10 min	4354	1.57	1.55	0.12	1.58	1.58	1.38	1.45	0.79	1.19	1.58	0.00	-0.2%	
SC-53.03	10 min	4361	1.89	1.90	0.13	1.92	1.94	1.65	1.80	0.97	1.44	1.94	0.02	0.9%	
SC-54.01	10 min	4363	0.61	0.63	0.05	0.63	0.66	0.51	0.61	0.31	0.43	0.66	0.03	4.8%	
SC-54.02	10 min	4354	1.20	1.18	0.09	1.20	1.20	1.05	1.10	0.60	0.90	1.20	0.00	-0.1%	
SC-55.01	10 min	4363	0.95	0.97	0.08	0.99	1.03	0.79	0.95	0.48	0.67	1.03	0.04	3.7%	
SC-56.01	10 min	4354	0.46	0.45	0.04	0.45	0.45	0.40	0.42	0.22	0.34	0.45	0.00	1.0%	
SC-57.01	10 min	4364	0.33	0.33	0.04	0.34	0.30	0.31	0.29	0.17	0.26	0.31	-0.03	-8.6%	
SC-58.01	10 min	4363	0.62	0.63	0.05	0.64	0.67	0.51	0.62	0.31	0.45	0.67	0.03	4.8%	
SC-59.01	10 min	4363	0.84	0.86	0.07	0.86	0.90	0.70	0.83	0.44	0.64	0.90	0.04	4.1%	
SC-59.02	10 min	4354	1.61	1.59	0.11	1.62	1.62	1.41	1.50	0.83	1.25	1.62	0.00	-0.2%	
SC-59.03	10 min	4354	2.34	2.33	0.16	2.37	2.37	2.04	2.19	1.20	1.81	2.37	0.00	-0.2%	
SC-59.04	10 min	4354	3.01	3.02	0.21	3.07	3.07	2.60	2.83	1.55	2.32	3.07	0.00	-0.2%	
SC-59.05	10 min	4354	6.54	6.42	0.40	6.51	6.51	5.89	5.94	3.43	5.24	6.51	0.00	-0.1%	
SC-59.06	10 min	4354	7.58	7.42	0.40	7.47	7.47	7.00	6.69	3.90	6.22	7.47	0.00	-0.1%	
SC-59.07	10 min	4364	12.86	12.53	0.82	12.54	12.43	11.98	11.27	6.85	10.79	12.43	-0.11	-0.9%	
SC-59.08	15 min	4401	12.67	12.41	1.52	12.60	11.64	12.92	10.38	7.17	11.77	12.92	0.32	2.5%	
SC-59.09	15 min	4401	15.20	15.22	1.21	15.43	13.78	15.92	11.60	8.67	14.49	15.92	0.49	3.2%	
SC-59.10	25 min	4394	13.46	13.76	1.23	14.00	6.94	11.29	11.08	9.57	15.32	15.32	1.32	9.4%	
SC-6.01	10 min	4363	0.71	0.72	0.06	0.74	0.77	0.58	0.72	0.36	0.49	0.77	0.03	4.6%	
SC-60.01	10 min	4364	0.58	0.58	0.06	0.59	0.51	0.54	0.52	0.32	0.50	0.54	-0.05	-8.6%	
SC-60.02	10 min	4364	2.34	2.29	0.21	2.31	2.21	2.10	2.05	1.24	1.92	2.21	-0.10	-4.4%	
SC-61.01	10 min	4364	1.23	1.19	0.10	1.20	1.18	1.08	1.09	0.63	0.97	1.18	-0.02	-1.8%	
SC-62.01	10 min	4363	0.74	0.75	0.06	0.75	0.79	0.62	0.73	0.37	0.52	0.79	0.04	4.7%	
SC-63.01	10 min	4364	0.43	0.43	0.05	0.44	0.37	0.39	0.37	0.23	0.36	0.39	-0.05	-11.5%	
SC-64.01	10 min	4363	0.55	0.56	0.05	0.57	0.60	0.46	0.55	0.28	0.40	0.60	0.03	5.1%	
SC-64.02	10 min	4354	1.91	1.88	0.14	1.91	1.91	1.67	1.76	0.99	1.49	1.91	0.00	-0.1%	
SC-64.03	10 min	4354	3.56	3.54	0.25	3.60	3.60	3.09	3.32	1.85	2.79	3.60	0.00	-0.1%	
SC-64.04	10 min	4354	5.08	4.95	0.35	5.02	5.02	4.56	4.60	2.72	4.16	5.02	0.00	0.1%	
SC-65.01	10 min	4363	0.43	0.44	0.04	0.44	0.46	0.36	0.43	0.22	0.32	0.46	0.02	5.3%	
SC-66.01	10 min	4354	0.36	0.35	0.03	0.35	0.35	0.32	0.32	0.18	0.27	0.35	0.00	-0.6%	
SC-66.02	10 min	4364	0.85	0.86	0.09	0.87	0.75	0.81	0.77	0.47	0.75	0.81	-0.06	-6.3%	
SC-67.01	10 min	4363													

ARR2019 Results for 0.5%AEP Event														
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	15 min	20 min	60 min	120 min			
			Average	Median	Standard Dev	Adopted	4354	4400	4371	4558	4611		m ³ /s	%
SC-94.02	10 min	4368	1.87	1.90	0.15	1.91	1.98	1.58	1.83	0.95	1.35	1.98	0.07	3.8%
SC-95.01	10 min	4363	0.47	0.47	0.04	0.49	0.51	0.37	0.47	0.24	0.31	0.51	0.02	4.0%
SC-95.02	10 min	4363	1.13	1.16	0.10	1.18	1.23	0.94	1.14	0.58	0.79	1.23	0.05	3.9%
SC-96.01	10 min	4363	0.52	0.53	0.04	0.55	0.57	0.42	0.53	0.27	0.36	0.57	0.02	3.3%
SC-97.01	10 min	4363	0.35	0.36	0.03	0.37	0.39	0.28	0.36	0.18	0.24	0.39	0.02	4.4%
SC-97.02	10 min	4361	2.07	2.09	0.15	2.11	2.13	1.79	1.97	1.07	1.59	2.13	0.02	0.9%
SC-98.01	10 min	4363	0.62	0.63	0.05	0.64	0.66	0.51	0.61	0.31	0.45	0.66	0.02	3.8%
SC-99.01	10 min	4363	0.60	0.61	0.05	0.62	0.64	0.49	0.60	0.30	0.41	0.64	0.02	3.8%
SC-99.02	10 min	4354	1.66	1.65	0.13	1.67	1.67	1.45	1.54	0.82	1.22	1.67	0.00	0.1%
SC-99.03	10 min	4354	2.87	2.82	0.21	2.87	2.87	2.51	2.64	1.43	2.16	2.87	0.00	-0.2%
SC-99.04	10 min	4361	7.57	7.62	0.51	7.67	7.79	6.69	7.16	3.91	5.90	7.79	0.12	1.6%
Dummy1	10 min	4364	38.58	38.50	0.88	38.58	37.79	38.80	32.45	20.55	34.64	38.80	0.22	0.6%
Dummy2	25 min	4394	60.61	60.02	3.91	60.37	50.57	54.57	63.64	42.73	56.77	63.64	3.27	5.4%
Dummy3	30 min	4497	116.78	116.09	7.96	116.32	95.23	107.94	103.92	95.22	119.46	119.46	3.14	2.7%
DummyOut	1.50 hour	4588	126.23	123.70	11.80	124.02	95.74	108.48	105.04	120.88	139.09	139.09	15.07	12.2%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-1.01	10 min	4361	1.13	1.14	0.08	1.14	1.17	1.22	1.08	0.76	0.63	1.22	0.08	7.4%
SC-1.02	10 min	4354	2.44	2.44	0.16	2.48	2.48	2.59	2.30	1.66	1.38	2.59	0.11	4.4%
SC-1.03	10 min	4365	2.87	2.89	0.19	2.90	2.98	3.12	2.77	1.95	1.61	3.12	0.22	7.6%
SC-1.04	10 min	4354	7.77	7.56	0.54	7.68	7.68	8.04	7.10	5.36	4.46	8.04	0.36	4.7%
SC-1.05	10 min	4354	8.30	8.24	0.51	8.35	8.35	8.64	7.69	5.83	4.88	8.64	0.29	3.5%
SC-1.06	10 min	4354	9.55	9.45	0.52	9.56	9.56	9.63	8.69	6.73	5.72	9.63	0.07	0.7%
SC-1.07	10 min	4354	9.68	9.69	0.49	9.79	9.79	9.80	8.88	6.89	5.88	9.80	0.01	0.1%
SC-1.08	45 min	4528	11.30	11.15	1.04	11.61	5.72	8.14	9.59	12.11	8.95	12.11	0.50	4.3%
SC-1.09	45 min	4533	12.18	12.17	0.80	12.31	5.87	8.30	9.77	12.31	9.44	12.31	0.00	0.0%
SC-1.10	45 min	4533	12.31	12.26	0.75	12.33	5.88	8.31	9.78	12.33	9.55	12.33	0.00	0.0%
SC-1.11	30 min	4503	16.83	16.54	0.95	16.66	16.62	16.55	17.19	18.01	12.85	18.01	1.35	8.1%
SC-1.12	10 min	4354	21.04	20.68	0.84	20.83	20.83	20.27	20.00	20.69	14.78	20.83	0.00	0.0%
SC-1.13	10 min	4361	23.83	23.76	0.47	23.85	23.89	22.57	21.12	22.91	16.17	23.89	0.04	0.1%
SC-1.14	10 min	4354	28.56	28.45	0.45	28.48	28.48	26.33	24.91	26.18	18.57	28.48	0.00	0.0%
SC-1.15	10 min	4364	31.04	30.82	0.51	30.82	30.76	28.60	26.92	28.02	19.99	30.76	-0.06	-0.2%
SC-1.16	15 min	4358	34.84	35.20	0.74	35.21	32.75	33.96	29.40	31.41	23.80	33.96	-1.25	-3.5%
SC-1.17	15 min	4397	35.42	35.64	0.73	35.64	32.95	34.78	29.74	31.93	24.39	34.78	-0.86	-2.4%
SC-1.18	45 min	4496	21.50	21.53	0.34	21.75	17.64	19.37	19.72	21.88	18.90	21.88	0.13	0.6%
SC-1.19	1 hour	4558	28.80	28.52	0.99	28.56	12.41	17.65	20.85	29.04	23.98	29.04	0.48	1.7%
SC-1.20	1 hour	4555	24.27	24.24	0.11	24.24	12.15	16.39	18.82	23.84	23.38	23.84	-0.40	-1.7%
SC-1.21	12 hours	4787	24.36	22.68	6.79	23.89	12.16	16.39	18.82	23.84	23.99	23.99	0.10	0.4%
SC-1.22	1.50 hour	4501	25.08	25.19	0.50	25.29	12.18	16.43	18.87	23.91	25.09	25.09	-0.20	-0.8%
SC-1.23	1.50 hour	4532	29.20	29.47	1.68	29.71	22.92	22.93	23.84	25.50	29.17	29.17	-0.54	-1.8%
SC-1.24	20 min	4428	38.67	38.27	3.32	38.30	37.03	34.98	33.60	36.97	33.87	37.03	-1.27	-3.3%
SC-1.25	25 min	4462	39.40	39.31	3.24	39.43	37.48	36.47	33.69	37.78	34.20	37.78	-1.66	-4.2%
SC-1.26	25 min	4462	42.55	43.11	2.92	43.14	39.13	41.41	35.82	40.31	35.32	41.41	-1.73	-4.0%
SC-1.27	25 min	4458	43.34	44.02	2.89	44.14	39.72	42.30	36.71	40.85	35.65	42.30	-1.84	-4.2%
SC-1.28	15 min	4396	57.61	57.42	0.99	57.82	49.21	57.82	52.88	51.50	46.83	57.82	0.00	0.0%
SC-1.29	25 min	4459	61.24	61.00	2.66	61.04	49.98	60.44	56.12	54.45	50.42	60.44	-0.60	-1.0%
SC-1.30	25 min	4459	62.43	62.16	2.60	62.56	50.21	60.90	58.08	56.56	51.40	60.90	-1.66	-2.6%
SC-1.31	25 min	4459	63.16	62.97	2.60	63.41	50.40	61.21	59.02	58.08	51.98	61.21	-2.20	-3.5%
SC-1.32	25 min	4459	64.32	64.60	2.64	64.68	50.69	61.66	60.19	60.08	52.94	61.66	-3.02	-4.7%
SC-1.33	30 min	4504	66.59	66.34	3.95	66.69	51.08	62.23	61.65	63.35	54.56	63.35	-3.34	-5.0%
SC-1.34	30 min	4504	66.94	66.63	3.78	66.76	51.09	62.26	61.75	63.70	55.11	63.70	-3.06	-4.6%
SC-1.35	30 min	4495	67.39	67.00	3.58	67.11	51.14	62.33	61.92	64.19	55.67	64.19	-2.92	-4.3%
SC-1.36	30 min	4495	70.20	69.96	2.50	70.80	51.40	62.70	62.78	71.03	59.03	71.03	0.23	0.3%
SC-10.01	10 min	4363	1.14	1.17	0.09	1.17	1.22	1.28	1.14	0.70	0.58	1.28	0.11	9.2%
SC-100.01	10 min	4363	1.33	1.35	0.11	1.39	1.45	1.51	1.34	0.80	0.65	1.51	0.12	8.7%
SC-100.02	10 min	4363	2.32	2.37	0.20	2.38	2.48	2.60	2.30	1.44	1.18	2.60	0.22	9.0%
SC-101.01	10 min	4361	1.43	1.44	0.10	1.45	1.47	1.54	1.37	0.89	0.74	1.54	0.09	5.9%
SC-101.02	10 min	4354	2.54	2.47	0.19	2.51	2.51	2.63	2.32	1.62	1.35	2.63	0.12	4.9%
SC-102.01	10 min	4363	1.10	1.12	0.09	1.15	1.19	1.25	1.11	0.67	0.55	1.25	0.10	8.3%
SC-102.02	10 min	4354	4.27	4.23	0.29	4.29	4.29	4.41	3.93	2.76	2.25	4.41	0.12	2.8%
SC-103.01	10 min	4363	0.74	0.75	0.06	0.76	0.79	0.83	0.74	0.45	0.36	0.83	0.07	9.2%
SC-103.02	10 min	4354	2.63	2.63	0.20	2.67	2.67	2.80	2.46	1.68	1.35	2.80	0.13	4.7%
SC-104.01	10 min	4363	0.67	0.68	0.06	0.68	0.71	0.74	0.66	0.41	0.33	0.74	0.06	8.8%
SC-105.01	10 min	4365	0.72	0.73	0.06	0.73	0.76	0.79	0.70	0.44	0.36	0.79	0.06	8.1%
SC-105.02	10 min	4354	1.73	1.71	0.13	1.73	1.73	1.82	1.60	1.11	0.89	1.82	0.09	5.1%
SC-105.03	10 min	4354	4.03	3.98	0.31	4.04	4.04	4.24	3.74	2.58	2.08	4.24	0.20	5.0%
SC-105.04	10 min	4354	5.43	5.31	0.40	5.39	5.39	5.63	5.00	3.50	2.83	5.63	0.24	4.5%
SC-105.05	10 min	4354	6.58	6.40	0.49	6.50	6.50	6.78	5.98	4.31	3.53	6.78	0.28	4.3%
SC-105.06	10 min	4354	7.07	6.86	0.51	6.90	6.90	7.14	6.30	4.79	4.01	7.14	0.23	3.4%
SC-105.07	10 min	4354	10.32	10.12	0.54	10.21	10.21	10.40	9.29	7.40	6.25	10.40	0.19	1.9%
SC-105.08	15 min	4396	11.65	11.56	0.94	11.60	11.75	11.60	10.57	8.56	7.39	11.75	0.15	1.3%
SC-105.09	10 min	4356	15.23	15.14	0.22	15.15	15.51	14.33	13.57	11.45	9.97	15.51	0.36	2.4%
SC-106.01	10 min	4363	0.52	0.53	0.04	0.53	0.55	0.58	0.51	0.32	0.26	0.58	0.05	8.7%
SC-107.01	10 min	4365	0.91	0.93	0.07	0.93	0.96	1.00	0.89	0.56	0.45	1.00	0.07	7.8%
SC-108.01	10 min	4363	0.66	0.67	0.06	0.68	0.71	0.74	0.66	0.40	0.32	0.74	0.06	9.2%
SC-109.01	10 min	4363	0.86	0.87	0.07	0.88	0.92	0.96	0.85	0.52	0.43	0.96	0.08	8.8%
SC-11.01	10 min	4368	0.71	0.72	0.06	0.73	0.75	0.78	0.69	0.43	0.35	0.78	0.05	6.9%
SC-110.01	10 min	4363	0.79	0.80	0.07	0.82	0.85	0.89	0.79	0.48	0.40	0.89	0.07	8.5%
SC-110.02	10 min	4354	1.84	1.81	0.13	1.84	1.84	1.93	1.70	1.18	0.98	1.93	0.09	4.7%
SC-110.03	10 min	4354	1.98	1.96	0.13	1.99	1.99	2.08	1.85	1.29	1.08	2.08	0.09	4.4%
SC-111.01	15 min	4401	0.59	0.55	0.09	0.56	0.53	0.49	0.50	0.45	0.39	0.53	-0.03	-6.0%
SC-112.01	10 min	4363	1.34	1.36	0.11	1.38	1.44	1.51	1.33	0.82	0.68	1.51	0.13	9.1%
SC-113.01	10 min	4368	0.49	0.50	0.04	0.50	0.51	0.54	0.48	0.30	0.25	0.54	0.04	7.6%
SC-113.02	10 min	4354	1.62	1.57	0.12	1.60	1.60	1.68	1.48	1.07	0.89	1.68	0.08	4.8%
SC-114.01	10 min	4361	0.87	0.88	0.06	0.89	0.89	0.93	0.83	0.58	0.48	0.93	0.04	4.8%

ARR2019 Results for 0.2%AEP Event														
Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-114.02	10 min	4354	1.38	1.37	0.09	1.39	1.39	1.45	1.29	0.92	0.76	1.45	0.06	4.2%
SC-114.03	10 min	4361	2.84	2.86	0.19	2.88	2.93	3.06	2.72	1.85	1.54	3.06	0.18	6.2%
SC-115.01	10 min	4363	0.76	0.78	0.06	0.79	0.82	0.86	0.76	0.46	0.39	0.86	0.07	8.8%
SC-115.02	10 min	4361	1.25	1.26	0.09	1.28	1.28	1.34	1.19	0.79	0.65	1.34	0.06	4.5%
SC-116.01	10 min	4363	0.76	0.77	0.06	0.78	0.82	0.85	0.76	0.46	0.38	0.85	0.07	9.4%
SC-116.02	10 min	4361	1.24	1.25	0.09	1.25	1.29	1.35	1.20	0.78	0.65	1.35	0.10	7.8%
SC-117.01	10 min	4363	0.45	0.46	0.04	0.46	0.48	0.50	0.44	0.27	0.23	0.50	0.04	8.3%
SC-118.01	10 min	4363	0.97	0.98	0.09	1.01	1.06	1.11	0.98	0.58	0.47	1.11	0.10	9.6%
SC-119.01	10 min	4363	1.50	1.53	0.13	1.55	1.62	1.69	1.50	0.92	0.77	1.69	0.14	9.2%
SC-119.02	10 min	4363	3.75	3.82	0.29	3.83	3.99	4.17	3.70	2.33	1.95	4.17	0.34	8.9%
SC-12.01	10 min	4363	0.82	0.83	0.06	0.83	0.87	0.91	0.81	0.50	0.42	0.91	0.08	9.3%
SC-12.02	10 min	4363	1.41	1.44	0.12	1.46	1.52	1.59	1.41	0.85	0.71	1.59	0.13	9.0%
SC-12.03	10 min	4361	2.62	2.65	0.19	2.65	2.72	2.84	2.53	1.64	1.37	2.84	0.19	7.1%
SC-12.04	10 min	4365	3.34	3.37	0.24	3.38	3.48	3.64	3.24	2.12	1.77	3.64	0.26	7.7%
SC-120.01	10 min	4363	0.67	0.68	0.06	0.69	0.72	0.75	0.67	0.40	0.34	0.75	0.06	8.7%
SC-121.01	10 min	4363	0.84	0.86	0.07	0.86	0.90	0.94	0.83	0.51	0.43	0.94	0.08	9.3%
SC-122.01	10 min	4363	1.34	1.35	0.12	1.41	1.47	1.54	1.36	0.80	0.65	1.54	0.13	8.9%
SC-122.02	10 min	4365	2.14	2.18	0.17	2.19	2.25	2.36	2.09	1.32	1.10	2.36	0.17	7.5%
SC-122.03	10 min	4365	2.90	2.94	0.24	2.95	3.04	3.19	2.82	1.83	1.51	3.19	0.24	8.0%
SC-123.01	10 min	4363	0.69	0.70	0.06	0.72	0.75	0.78	0.69	0.41	0.34	0.78	0.06	8.9%
SC-123.02	10 min	4361	1.96	1.98	0.15	1.99	2.03	2.13	1.88	1.24	1.02	2.13	0.14	7.1%
SC-123.03	10 min	4354	13.54	13.19	0.86	13.36	13.36	13.89	12.43	9.86	8.17	13.89	0.53	3.9%
SC-123.04	10 min	4354	13.75	13.43	0.86	13.62	13.62	14.25	12.70	10.04	8.34	14.25	0.63	4.6%
SC-123.05	10 min	4361	17.28	17.32	0.97	17.48	17.62	18.18	16.23	12.60	10.54	18.18	0.70	4.0%
SC-123.06	10 min	4365	17.70	17.71	0.89	17.80	18.24	18.61	16.72	13.02	10.96	18.61	0.81	4.6%
SC-123.07	10 min	4363	18.90	18.90	0.85	19.13	19.72	19.82	17.92	14.16	12.01	19.82	0.69	3.6%
SC-124.01	20 min	4429	0.91	0.87	0.10	0.88	0.71	0.77	0.86	0.70	0.61	0.86	-0.02	-2.3%
SC-124.02	20 min	4433	5.82	5.57	0.72	5.60	4.96	5.09	5.55	4.49	3.81	5.55	-0.05	-0.8%
SC-125.01	20 min	4433	1.24	1.18	0.15	1.20	1.03	1.06	1.13	0.93	0.83	1.13	-0.07	-6.0%
SC-126.01	10 min	4363	0.63	0.65	0.05	0.66	0.68	0.72	0.63	0.38	0.32	0.72	0.06	8.4%
SC-126.02	20 min	4433	1.68	1.63	0.19	1.64	1.32	1.40	1.62	1.31	1.11	1.62	-0.02	-1.4%
SC-126.03	20 min	4371	3.01	2.91	0.44	2.95	2.80	2.94	2.95	2.31	1.91	2.95	0.00	0.0%
SC-127.01	10 min	4363	1.49	1.50	0.13	1.56	1.63	1.70	1.51	0.89	0.72	1.70	0.14	9.1%
SC-127.02	10 min	4363	4.03	4.10	0.35	4.17	4.34	4.54	4.03	2.48	2.03	4.54	0.37	8.9%
SC-128.01	10 min	4363	1.47	1.49	0.13	1.53	1.60	1.68	1.48	0.88	0.72	1.68	0.15	9.5%
SC-129.01	10 min	4354	0.75	0.73	0.05	0.74	0.74	0.77	0.69	0.49	0.41	0.77	0.03	4.4%
SC-13.01	10 min	4363	0.75	0.76	0.06	0.77	0.80	0.84	0.74	0.45	0.38	0.84	0.07	8.8%
SC-130.01	10 min	4363	1.10	1.12	0.09	1.14	1.19	1.24	1.10	0.66	0.55	1.24	0.10	8.8%
SC-131.01	10 min	4363	0.43	0.44	0.04	0.45	0.47	0.49	0.43	0.26	0.21	0.49	0.04	8.3%
SC-132.01	10 min	4363	0.62	0.63	0.05	0.63	0.65	0.68	0.61	0.38	0.31	0.68	0.05	8.5%
SC-133.01	10 min	4363	0.44	0.45	0.04	0.46	0.48	0.50	0.45	0.27	0.22	0.50	0.04	9.6%
SC-134.01	10 min	4363	0.38	0.39	0.03	0.39	0.40	0.42	0.37	0.24	0.20	0.42	0.03	7.8%
SC-134.02	10 min	4364	1.25	1.26	0.08	1.27	1.17	1.10	1.00	0.89	0.75	1.17	-0.10	-7.9%
SC-134.03	10 min	4364	2.55	2.58	0.22	2.59	2.30	2.25	2.17	1.81	1.53	2.30	-0.29	-11.1%
SC-134.04	10 min	4364	3.67	3.71	0.32	3.73	3.31	3.03	3.12	2.61	2.19	3.31	-0.42	-11.2%
SC-135.01	10 min	4368	0.30	0.31	0.02	0.31	0.32	0.33	0.30	0.18	0.15	0.33	0.02	6.9%
SC-135.02	10 min	4361	1.68	1.70	0.13	1.71	1.73	1.82	1.60	1.06	0.88	1.82	0.11	6.1%
SC-135.03	10 min	4354	2.20	2.22	0.15	2.25	2.25	2.35	2.09	1.41	1.17	2.35	0.10	4.3%
SC-135.04	10 min	4361	4.89	4.93	0.34	4.99	5.01	5.24	4.65	3.17	2.63	5.24	0.25	4.9%
SC-135.05	10 min	4361	5.58	5.61	0.33	5.65	5.72	5.85	5.25	3.63	3.06	5.85	0.20	3.5%
SC-135.06	10 min	4354	9.23	9.13	0.53	9.22	9.22	9.38	8.32	6.10	5.14	9.38	0.16	1.7%
SC-136.01	10 min	4363	0.89	0.91	0.08	0.93	0.96	1.01	0.90	0.54	0.45	1.01	0.08	8.4%
SC-137.01	10 min	4363	0.92	0.94	0.08	0.95	0.99	1.04	0.91	0.56	0.47	1.04	0.09	8.9%
SC-138.01	10 min	4368	1.11	1.13	0.09	1.13	1.17	1.23	1.08	0.71	0.58	1.23	0.10	9.0%
SC-139.01	10 min	4368	1.08	1.10	0.08	1.10	1.15	1.20	1.07	0.68	0.56	1.20	0.10	9.2%
SC-139.02	10 min	4365	1.31	1.33	0.10	1.34	1.38	1.44	1.28	0.83	0.70	1.44	0.10	7.5%
SC-14.01	10 min	4363	1.30	1.33	0.11	1.35	1.41	1.47	1.31	0.78	0.65	1.47	0.12	9.1%
SC-14.02	10 min	4361	2.04	2.06	0.15	2.06	2.11	2.21	1.96	1.26	1.06	2.21	0.15	7.2%
SC-14.03	10 min	4361	2.67	2.69	0.19	2.69	2.77	2.90	2.57	1.68	1.40	2.90	0.21	7.7%
SC-140.01	10 min	4363	0.76	0.77	0.06	0.78	0.82	0.85	0.75	0.47	0.39	0.85	0.07	9.4%
SC-141.01	10 min	4364	1.27	1.27	0.16	1.28	1.10	1.03	1.06	0.84	0.68	1.10	-0.18	-13.8%
SC-142.01	20 min	4429	2.00	1.92	0.24	1.93	1.72	1.69	1.80	1.51	1.32	1.80	-0.14	-7.0%
SC-143.01	20 min	4371	0.76	0.75	0.09	0.76	0.64	0.68	0.76	0.62	0.51	0.76	0.00	0.3%
SC-143.02	10 min	4364	6.24	6.09	0.59	6.16	5.86	6.16	5.56	4.36	3.52	6.16	0.00	-0.1%
SC-144.01	10 min	4365	0.89	0.90	0.06	0.90	0.93	0.97	0.86	0.60	0.49	0.97	0.07	7.7%
SC-144.02	10 min	4361	1.27	1.27	0.08	1.28	1.31	1.37	1.21	0.89	0.72	1.37	0.09	7.0%
SC-144.03	10 min	4365	1.70	1.70	0.06	1.70	1.74	1.76	1.58	1.24	1.05	1.76	0.06	3.3%
SC-144.04	10 min	4364	3.04	3.01	0.06	3.02	2.99	2.71	2.58	2.17	1.90	2.99	-0.03	-0.9%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-144.05	10 min	4364	5.64	5.65	0.28	5.67	5.35	5.27	4.65	3.94	3.35	5.35	-0.32	-5.6%
SC-145.01	10 min	4363	1.12	1.14	0.10	1.16	1.21	1.27	1.12	0.68	0.56	1.27	0.11	9.6%
SC-145.02	10 min	4363	2.08	2.12	0.19	2.13	2.22	2.33	2.05	1.29	1.04	2.33	0.20	9.5%
SC-146.01	15 min	4401	2.31	2.17	0.33	2.20	2.04	1.91	1.90	1.76	1.50	2.04	-0.16	-7.2%
SC-147.01	10 min	4364	1.13	1.14	0.13	1.15	0.99	0.85	0.92	0.76	0.62	0.99	-0.16	-14.2%
SC-147.02	10 min	4364	1.55	1.57	0.17	1.58	1.37	1.22	1.28	1.06	0.87	1.37	-0.21	-13.2%
SC-147.03	10 min	4364	3.94	3.91	0.45	3.95	3.57	3.57	3.37	2.70	2.21	3.57	-0.38	-9.5%
SC-148.01	10 min	4365	0.93	0.94	0.07	0.95	0.97	1.02	0.90	0.57	0.47	1.02	0.07	6.9%
SC-148.02	10 min	4364	2.10	2.02	0.20	2.04	1.99	2.02	1.79	1.37	1.11	2.02	-0.02	-1.0%
SC-149.01	10 min	4354	0.68	0.68	0.05	0.69	0.69	0.72	0.67	0.53	0.42	0.72	0.03	4.3%
SC-149.02	10 min	4364	2.28	2.21	0.22	2.24	2.13	2.03	2.02	1.58	1.27	2.13	-0.12	-5.1%
SC-15.01	10 min	4363	1.34	1.36	0.11	1.38	1.44	1.51	1.33	0.82	0.68	1.51	0.13	9.2%
SC-15.02	10 min	4363	1.75	1.78	0.14	1.80	1.88	1.97	1.74	1.11	0.92	1.97	0.17	9.2%
SC-15.03	10 min	4365	2.80	2.84	0.21	2.86	2.94	3.08	2.73	1.78	1.48	3.08	0.22	7.7%
SC-150.01	10 min	4363	0.80	0.81	0.07	0.82	0.86	0.90	0.80	0.48	0.40	0.90	0.08	9.3%
SC-150.02	10 min	4365	1.57	1.60	0.12	1.61	1.65	1.73	1.53	0.99	0.83	1.73	0.12	7.5%
SC-150.03	10 min	4361	4.01	4.04	0.29	4.08	4.12	4.31	3.82	2.56	2.13	4.31	0.23	5.6%
SC-150.04	10 min	4361	5.19	5.24	0.35	5.24	5.39	5.58	4.97	3.36	2.82	5.58	0.34	6.5%
SC-150.05	10 min	4361	7.22	7.27	0.45	7.29	7.40	7.60	6.77	4.75	3.98	7.60	0.31	4.3%
SC-150.06	10 min	4354	13.32	13.28	0.66	13.41	13.41	13.38	12.18	8.98	7.59	13.41	0.00	0.0%
SC-150.07	10 min	4354	21.02	20.56	1.26	20.80	20.80	21.61	19.22	14.31	12.02	21.61	0.81	3.9%
SC-150.08	45 min	4531	13.64	13.74	2.57	13.74	0.38	2.59	6.80	16.33	8.12	16.33	2.59	18.9%
SC-150.09	45 min	4528	14.36	14.53	2.56	14.61	3.22	3.36	6.91	17.03	8.61	17.03	2.42	16.6%
SC-150.10	45 min	4528	17.46	17.66	2.85	18.12	8.34	8.06	9.52	20.26	10.28	20.26	2.14	11.8%
SC-150.11	1 hour	4360	23.16	22.46	3.19	22.59	22.75	21.78	20.28	26.22	13.99	26.22	3.63	16.1%
SC-150.12	10 min	4354	35.76	35.79	1.17	35.98	35.98	34.53	32.05	34.01	22.19	35.98	0.00	0.0%
SC-150.13	15 min	4392	40.82	40.72	1.68	40.85	41.09	40.87	36.88	36.04	26.83	41.09	0.24	0.6%
SC-150.14	15 min	4407	61.89	61.39	1.83	61.74	58.71	63.46	53.53	50.48	44.46	63.46	1.72	2.8%
SC-150.15	15 min	4407	62.59	62.02	1.81	62.14	59.23	64.26	54.80	50.94	45.33	64.26	2.12	3.4%
SC-150.16	15 min	4397	65.18	65.09	1.93	65.18	61.08	67.33	59.04	52.55	48.27	67.33	2.15	3.3%
SC-150.17	15 min	4398	65.99	66.05	2.11	66.06	61.67	68.65	61.83	53.02	49.75	68.65	2.59	3.9%
SC-151.01	10 min	4363	1.06	1.08	0.09	1.11	1.16	1.21	1.07	0.64	0.53	1.21	0.10	8.8%
SC-151.02	10 min	4365	1.66	1.68	0.13	1.69	1.74	1.82	1.62	1.03	0.86	1.82	0.13	7.6%
SC-152.01	10 min	4363	0.95	0.97	0.08	0.98	1.02	1.07	0.95	0.59	0.49	1.07	0.09	9.2%
SC-153.01	10 min	4363	0.76	0.77	0.06	0.78	0.81	0.85	0.76	0.49	0.39	0.85	0.07	8.8%
SC-153.02	10 min	4361	1.83	1.85	0.14	1.85	1.90	1.99	1.76	1.20	0.97	1.99	0.14	7.4%
SC-154.01	10 min	4368	1.44	1.46	0.11	1.47	1.52	1.59	1.41	0.94	0.77	1.59	0.12	8.2%
SC-154.02	10 min	4354	4.82	4.79	0.31	4.84	4.84	5.06	4.49	3.27	2.70	5.06	0.22	4.5%
SC-155.01	10 min	4364	0.55	0.53	0.05	0.53	0.52	0.55	0.49	0.35	0.29	0.55	0.02	2.9%
SC-155.02	10 min	4354	1.54	1.51	0.10	1.53	1.53	1.60	1.42	1.00	0.83	1.60	0.07	4.6%
SC-156.01	10 min	4363	0.58	0.60	0.05	0.60	0.63	0.66	0.58	0.37	0.30	0.66	0.06	9.3%
SC-157.01	10 min	4365	0.68	0.69	0.05	0.69	0.72	0.75	0.66	0.44	0.36	0.75	0.06	8.7%
SC-158.01	10 min	4363	0.91	0.92	0.08	0.94	0.98	1.02	0.91	0.55	0.46	1.02	0.08	8.8%
SC-158.02	10 min	4365	1.18	1.19	0.09	1.20	1.24	1.29	1.15	0.73	0.61	1.29	0.09	7.8%
SC-158.03	10 min	4354	2.56	2.57	0.18	2.61	2.61	2.72	2.42	1.64	1.37	2.72	0.11	4.4%
SC-158.04	10 min	4361	4.78	4.83	0.36	4.84	4.96	5.19	4.60	3.07	2.55	5.19	0.35	7.3%
SC-159.01	10 min	4363	0.72	0.73	0.06	0.74	0.77	0.81	0.72	0.44	0.36	0.81	0.07	9.2%
SC-16.01	10 min	4363	0.86	0.88	0.07	0.89	0.93	0.97	0.86	0.52	0.43	0.97	0.08	9.3%
SC-160.01	10 min	4363	0.70	0.71	0.06	0.72	0.75	0.78	0.70	0.42	0.35	0.78	0.06	8.6%
SC-160.02	10 min	4365	1.59	1.61	0.11	1.61	1.66	1.74	1.54	1.00	0.84	1.74	0.13	8.0%
SC-161.01	10 min	4363	0.85	0.86	0.07	0.88	0.92	0.96	0.85	0.51	0.42	0.96	0.08	9.0%
SC-161.02	10 min	4365	1.63	1.65	0.12	1.66	1.70	1.78	1.58	1.02	0.85	1.78	0.12	7.2%
SC-162.01	10 min	4363	1.01	1.03	0.08	1.03	1.08	1.13	1.00	0.63	0.52	1.13	0.10	9.7%
SC-163.01	10 min	4364	0.60	0.59	0.06	0.60	0.55	0.58	0.52	0.41	0.34	0.58	-0.02	-3.8%
SC-163.02	10 min	4364	1.15	1.12	0.10	1.12	1.11	1.16	1.02	0.77	0.64	1.16	0.04	3.7%
SC-163.03	10 min	4354	1.86	1.80	0.14	1.81	1.81	1.90	1.68	1.24	1.03	1.90	0.09	4.9%
SC-163.04	10 min	4354	2.56	2.53	0.17	2.57	2.57	2.69	2.38	1.70	1.42	2.69	0.12	4.6%
SC-163.05	10 min	4354	4.41	4.38	0.29	4.44	4.44	4.65	4.12	2.95	2.47	4.65	0.21	4.7%
SC-164.01	10 min	4368	0.87	0.89	0.07	0.89	0.92	0.97	0.85	0.56	0.45	0.97	0.08	8.8%
SC-165.01	10 min	4363	0.75	0.76	0.06	0.76	0.80	0.84	0.74	0.47	0.39	0.84	0.08	9.9%
SC-165.02	10 min	4363	1.92	1.96	0.16	1.97	2.05	2.15	1.90	1.23	1.01	2.15	0.18	9.0%
SC-165.03	10 min	4365	2.50	2.54	0.20	2.56	2.63	2.76	2.44	1.63	1.33	2.76	0.20	7.7%
SC-165.04	10 min	4361	5.41	5.46	0.33	5.47	5.57	5.72	5.11	3.57	2.97	5.72	0.25	4.6%
SC-165.05	10 min	4361	9.08	9.12	0.53	9.19	9.24	9.41	8.43	6.14	5.07	9.41	0.22	2.4%
SC-166.01	10 min	4368	0.67	0.69	0.06	0.69	0.71	0.75	0.66	0.43	0.35	0.75	0.06	8.5%
SC-167.01	10 min	4363	1.00	1.02	0.08	1.03	1.08	1.12	1.00	0.61	0.50	1.12	0.09	9.1%
SC-167.02	10 min	4361	2.58	2.61	0.19	2.61	2.68	2.80	2.49	1.60	1.33	2.80	0.19	7.4%
SC-168.01	10 min	4363	0.82	0.84	0.07	0.85	0.89	0.93	0.82	0.50	0.42	0.93	0.08	9.2%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-169.01	10 min	4365	0.75	0.76	0.06	0.76	0.79	0.83	0.73	0.48	0.39	0.83	0.07	8.6%
SC-169.02	10 min	4361	1.41	1.42	0.10	1.42	1.46	1.52	1.35	0.94	0.76	1.52	0.10	7.3%
SC-169.03	10 min	4365	3.11	3.17	0.24	3.19	3.28	3.43	3.04	2.06	1.66	3.43	0.24	7.5%
SC-17.01	10 min	4363	0.75	0.77	0.06	0.78	0.82	0.85	0.76	0.45	0.38	0.85	0.07	9.3%
SC-17.02	10 min	4361	1.32	1.34	0.10	1.34	1.37	1.43	1.27	0.83	0.69	1.43	0.09	6.9%
SC-17.03	10 min	4361	2.23	2.25	0.16	2.26	2.31	2.41	2.14	1.40	1.17	2.41	0.15	6.7%
SC-17.04	10 min	4354	5.36	5.29	0.40	5.37	5.37	5.63	4.97	3.42	2.82	5.63	0.26	4.9%
SC-17.05	10 min	4354	7.42	7.29	0.49	7.38	7.38	7.53	6.74	4.83	3.98	7.53	0.15	2.0%
SC-17.06	10 min	4354	8.38	8.22	0.48	8.30	8.30	8.50	7.57	5.58	4.60	8.50	0.20	2.5%
SC-17.07	10 min	4354	8.92	8.86	0.40	8.93	8.93	8.91	8.03	6.09	5.02	8.93	0.00	0.0%
SC-170.01	10 min	4363	0.68	0.70	0.06	0.70	0.73	0.77	0.68	0.42	0.35	0.77	0.07	9.9%
SC-171.01	10 min	4363	0.48	0.48	0.04	0.50	0.53	0.55	0.49	0.29	0.23	0.55	0.05	9.9%
SC-172.01	10 min	4363	0.96	0.97	0.08	1.00	1.04	1.09	0.97	0.58	0.47	1.09	0.09	8.5%
SC-172.02	10 min	4368	1.64	1.68	0.13	1.68	1.73	1.81	1.61	1.01	0.83	1.81	0.13	7.7%
SC-173.01	20 min	4429	1.17	1.15	0.09	1.15	0.77	0.97	1.15	1.04	0.91	1.15	0.00	-0.2%
SC-173.02	20 min	4433	2.33	2.25	0.25	2.28	1.81	1.91	2.32	1.97	1.64	2.32	0.04	1.6%
SC-173.03	20 min	4371	2.35	2.31	0.24	2.33	2.00	2.04	2.33	2.10	1.70	2.33	0.00	0.0%
SC-173.04	20 min	4371	3.77	3.69	0.49	3.77	3.76	3.94	3.77	3.17	2.55	3.94	0.17	4.4%
SC-173.05	10 min	4363	4.31	4.34	0.18	4.38	4.50	4.48	4.08	3.68	2.96	4.50	0.12	2.8%
SC-174.01	10 min	4363	0.61	0.62	0.05	0.64	0.67	0.70	0.62	0.37	0.30	0.70	0.06	9.3%
SC-175.01	10 min	4363	1.08	1.10	0.09	1.11	1.16	1.21	1.08	0.65	0.54	1.21	0.10	9.3%
SC-175.02	10 min	4365	2.23	2.26	0.18	2.28	2.35	2.46	2.17	1.39	1.16	2.46	0.18	7.7%
SC-175.03	10 min	4365	3.61	3.65	0.28	3.65	3.77	3.94	3.49	2.28	1.90	3.94	0.29	8.0%
SC-175.04	10 min	4365	4.41	4.47	0.33	4.49	4.62	4.78	4.26	2.91	2.44	4.78	0.29	6.5%
SC-175.05	10 min	4365	4.98	5.03	0.24	5.05	5.15	5.16	4.68	3.31	2.83	5.16	0.11	2.1%
SC-176.01	10 min	4364	0.48	0.47	0.04	0.47	0.46	0.48	0.45	0.35	0.29	0.48	0.01	2.9%
SC-177.01	10 min	4363	0.60	0.61	0.05	0.62	0.65	0.67	0.60	0.37	0.30	0.67	0.05	8.7%
SC-177.02	10 min	4354	1.63	1.62	0.12	1.65	1.65	1.73	1.52	1.04	0.84	1.73	0.08	4.5%
SC-177.03	10 min	4354	4.42	4.43	0.31	4.50	4.50	4.71	4.17	2.85	2.37	4.71	0.21	4.6%
SC-177.04	10 min	4361	6.08	6.12	0.43	6.19	6.23	6.52	5.77	3.90	3.26	6.52	0.33	5.4%
SC-178.01	10 min	4363	1.32	1.35	0.11	1.37	1.42	1.49	1.32	0.81	0.68	1.49	0.12	8.8%
SC-178.02	10 min	4361	2.02	2.03	0.14	2.04	2.08	2.18	1.93	1.28	1.06	2.18	0.14	6.8%
SC-179.01	10 min	4363	1.07	1.09	0.09	1.11	1.16	1.21	1.08	0.65	0.54	1.21	0.10	9.1%
SC-18.01	10 min	4368	0.84	0.86	0.07	0.86	0.89	0.93	0.83	0.51	0.42	0.93	0.07	7.8%
SC-18.02	10 min	4354	1.35	1.33	0.10	1.35	1.35	1.42	1.25	0.86	0.70	1.42	0.07	5.3%
SC-180.01	10 min	4363	1.05	1.07	0.09	1.08	1.13	1.18	1.04	0.64	0.53	1.18	0.10	9.2%
SC-180.02	10 min	4361	1.81	1.82	0.12	1.83	1.86	1.95	1.73	1.19	0.98	1.95	0.12	6.4%
SC-180.03	10 min	4361	2.54	2.56	0.18	2.57	2.63	2.75	2.44	1.67	1.38	2.75	0.18	7.0%
SC-180.04	10 min	4361	3.66	3.69	0.28	3.70	3.80	3.98	3.52	2.39	1.98	3.98	0.28	7.5%
SC-181.01	20 min	4371	0.49	0.47	0.07	0.47	0.42	0.44	0.47	0.37	0.31	0.47	0.00	-0.7%
SC-181.02	10 min	4354	1.54	1.51	0.11	1.53	1.53	1.61	1.42	1.06	0.87	1.61	0.08	5.0%
SC-181.03	10 min	4361	2.49	2.51	0.18	2.52	2.58	2.70	2.39	1.69	1.40	2.70	0.18	6.9%
SC-181.04	10 min	4354	4.60	4.61	0.30	4.67	4.67	4.85	4.31	3.27	2.70	4.85	0.18	3.9%
SC-181.05	10 min	4368	5.02	5.02	0.17	5.02	5.17	5.19	4.69	3.61	3.05	5.19	0.17	3.4%
SC-181.06	10 min	4363	5.53	5.55	0.16	5.59	5.72	5.60	5.14	3.98	3.41	5.72	0.13	2.3%
SC-181.07	10 min	4354	12.40	12.26	0.39	12.31	12.31	11.86	10.98	8.61	7.48	12.31	0.00	0.0%
SC-181.08	10 min	4354	12.80	12.74	0.31	12.78	12.78	12.20	11.36	8.98	7.79	12.78	0.00	0.0%
SC-182.01	10 min	4363	0.74	0.75	0.06	0.76	0.79	0.82	0.73	0.46	0.38	0.82	0.06	8.5%
SC-182.02	10 min	4354	1.21	1.21	0.08	1.23	1.23	1.28	1.14	0.78	0.65	1.28	0.05	4.4%
SC-182.03	10 min	4357	1.97	1.92	0.14	1.92	1.92	2.01	1.85	1.43	1.18	2.01	0.09	4.5%
SC-183.01	10 min	4354	0.73	0.71	0.05	0.72	0.72	0.76	0.67	0.51	0.42	0.76	0.04	4.9%
SC-183.02	10 min	4361	1.62	1.63	0.10	1.66	1.66	1.74	1.54	1.09	0.90	1.74	0.08	4.8%
SC-183.03	10 min	4361	4.02	4.05	0.24	4.09	4.09	4.16	3.74	2.70	2.28	4.16	0.07	1.6%
SC-183.04	10 min	4365	4.61	4.64	0.22	4.65	4.73	4.63	4.25	3.12	2.69	4.73	0.08	1.6%
SC-184.01	10 min	4368	1.72	1.76	0.14	1.76	1.83	1.91	1.69	1.10	0.91	1.91	0.15	8.8%
SC-185.01	10 min	4363	1.01	1.03	0.09	1.04	1.09	1.14	1.01	0.61	0.51	1.14	0.10	9.4%
SC-185.02	10 min	4365	2.27	2.30	0.18	2.32	2.39	2.50	2.21	1.42	1.18	2.50	0.18	7.7%
SC-186.01	10 min	4363	0.35	0.36	0.03	0.36	0.38	0.39	0.35	0.23	0.18	0.39	0.03	9.6%
SC-187.01	10 min	4363	1.02	1.04	0.09	1.05	1.09	1.14	1.02	0.62	0.51	1.14	0.09	8.9%
SC-187.02	10 min	4365	2.01	2.03	0.15	2.05	2.11	2.21	1.95	1.26	1.05	2.21	0.16	7.6%
SC-187.03	10 min	4363	2.34	2.36	0.16	2.40	2.48	2.54	2.28	1.52	1.28	2.54	0.14	6.0%
SC-187.04	10 min	4366	3.02	2.98	0.11	3.01	3.16	3.05	2.83	2.05	1.73	3.16	0.15	5.1%
SC-187.05	10 min	4356	3.57	3.57	0.09	3.58	3.68	3.41	3.24	2.46	2.06	3.68	0.09	2.7%
SC-188.01	10 min	4363	1.07	1.09	0.09	1.10	1.15	1.20	1.07	0.65	0.54	1.20	0.10	9.3%
SC-188.02	10 min	4361	1.61	1.62	0.12	1.63	1.66	1.73	1.54	1.00	0.83	1.73	0.10	6.1%
SC-189.01	10 min	4363	1.21	1.24	0.10	1.26	1.31	1.37	1.22	0.73	0.61	1.37	0.11	8.7%
SC-189.02	10 min	4363	2.17	2.21	0.18	2.22	2.31	2.42	2.15	1.38	1.14	2.42	0.20	8.8%
SC-19.01	10 min	4357	0.52	0.50	0.05	0.50	0.50	0.52	0.46	0.34	0.27	0.52	0.02	4.4%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-190.01	10 min	4363	0.53	0.54	0.05	0.54	0.57	0.59	0.53	0.33	0.26	0.59	0.05	9.6%
SC-191.01	10 min	4363	0.97	0.99	0.08	1.00	1.05	1.09	0.97	0.59	0.49	1.09	0.09	9.3%
SC-191.02	10 min	4361	1.42	1.44	0.10	1.44	1.48	1.54	1.37	0.88	0.73	1.54	0.10	7.0%
SC-191.03	10 min	4361	2.64	2.66	0.18	2.69	2.71	2.83	2.51	1.68	1.40	2.83	0.14	5.4%
SC-191.04	10 min	4361	3.86	3.89	0.28	3.92	3.98	4.16	3.69	2.46	2.05	4.16	0.24	6.1%
SC-191.05	10 min	4354	5.36	5.38	0.34	5.44	5.44	5.51	4.98	3.48	2.94	5.51	0.07	1.2%
SC-191.06	10 min	4354	9.21	9.19	0.55	9.31	9.31	9.61	8.59	6.52	5.35	9.61	0.30	3.2%
SC-191.07	10 min	4354	11.22	11.02	0.63	11.13	11.13	11.46	10.16	8.05	6.70	11.46	0.33	2.9%
SC-191.08	10 min	4363	12.12	12.24	0.60	12.24	12.51	12.46	11.21	9.15	7.71	12.51	0.27	2.2%
SC-192.01	10 min	4365	3.11	3.17	0.25	3.19	3.30	3.46	3.04	2.02	1.65	3.46	0.27	8.3%
SC-193.01	10 min	4365	1.43	1.44	0.10	1.45	1.49	1.56	1.38	0.95	0.78	1.56	0.11	7.5%
SC-194.01	10 min	4357	1.48	1.45	0.11	1.45	1.44	1.50	1.39	1.08	0.89	1.50	0.05	3.5%
SC-194.02	20 min	4429	6.19	6.12	0.56	6.15	4.41	5.26	5.93	5.11	4.54	5.93	-0.22	-3.6%
SC-194.03	20 min	4433	6.50	6.37	0.47	6.39	4.99	5.43	6.13	5.87	5.14	6.13	-0.26	-4.1%
SC-195.01	20 min	4433	2.15	2.14	0.18	2.15	1.49	1.85	2.00	1.71	1.56	2.00	-0.15	-7.2%
SC-196.01	10 min	4354	4.71	4.73	0.31	4.80	4.80	5.03	4.44	3.40	2.75	5.03	0.23	4.7%
SC-197.01	10 min	4364	3.16	3.08	0.25	3.11	3.00	3.14	2.87	2.25	1.88	3.14	0.03	1.0%
SC-198.01	15 min	4401	3.11	2.96	0.40	3.00	2.66	2.66	2.61	2.37	2.08	2.66	-0.34	-11.3%
SC-2.01	10 min	4364	0.68	0.66	0.06	0.67	0.65	0.67	0.60	0.47	0.39	0.67	0.00	0.6%
SC-20.01	10 min	4363	0.66	0.67	0.05	0.67	0.70	0.73	0.65	0.40	0.33	0.73	0.06	9.3%
SC-200.01	10 min	4365	0.96	0.98	0.08	0.99	1.02	1.07	0.94	0.62	0.50	1.07	0.08	7.7%
SC-200.02	10 min	4363	1.69	1.72	0.13	1.72	1.80	1.88	1.66	1.14	0.90	1.88	0.16	9.2%
SC-200.03	10 min	4361	3.17	3.19	0.22	3.24	3.24	3.39	3.01	2.20	1.75	3.39	0.15	4.7%
SC-200.04	10 min	4354	4.74	4.66	0.35	4.73	4.73	4.97	4.37	3.27	2.62	4.97	0.23	5.0%
SC-200.05	10 min	4354	7.64	7.64	0.46	7.75	7.75	8.01	7.11	5.13	4.20	8.01	0.26	3.4%
SC-200.06	10 min	4364	12.05	11.84	0.86	11.93	11.46	11.44	10.18	8.42	7.00	11.46	-0.47	-3.9%
SC-200.07	10 min	4364	14.13	13.92	0.98	14.02	13.41	13.07	11.77	10.02	8.42	13.41	-0.61	-4.4%
SC-200.08	10 min	4364	16.17	15.81	0.85	15.87	15.69	15.01	13.64	11.62	9.87	15.69	-0.18	-1.2%
SC-200.09	10 min	4368	23.71	23.63	0.23	23.64	23.62	21.34	20.11	17.74	14.92	23.62	-0.02	-0.1%
SC-201.01	10 min	4363	1.20	1.22	0.11	1.25	1.30	1.36	1.21	0.72	0.60	1.36	0.11	9.0%
SC-202.01	10 min	4363	1.22	1.24	0.11	1.28	1.34	1.40	1.24	0.73	0.59	1.40	0.12	9.5%
SC-203.01	10 min	4365	1.24	1.26	0.09	1.27	1.31	1.37	1.22	0.76	0.64	1.37	0.10	7.7%
SC-204.01	10 min	4364	1.68	1.67	0.19	1.69	1.53	1.60	1.44	1.12	0.93	1.60	-0.09	-5.5%
SC-205.01	20 min	4429	0.71	0.68	0.09	0.68	0.61	0.60	0.65	0.53	0.47	0.65	-0.03	-5.0%
SC-206.01	10 min	4364	5.48	5.56	0.57	5.60	4.84	3.92	4.52	3.77	3.11	4.84	-0.76	-13.6%
SC-207.01	10 min	4363	1.17	1.19	0.10	1.20	1.26	1.32	1.16	0.72	0.59	1.32	0.12	9.8%
SC-207.02	10 min	4361	2.29	2.31	0.17	2.32	2.37	2.48	2.19	1.46	1.21	2.48	0.16	6.9%
SC-207.03	10 min	4361	2.56	2.58	0.19	2.61	2.63	2.76	2.42	1.68	1.40	2.76	0.15	5.6%
SC-207.04	10 min	4354	7.08	7.00	0.31	7.05	7.05	7.12	6.43	4.77	4.05	7.12	0.07	1.0%
SC-207.05	10 min	4357	9.47	9.32	0.36	9.32	9.31	9.25	8.32	6.48	5.50	9.31	-0.01	-0.1%
SC-207.06	10 min	4364	10.25	10.21	0.23	10.23	10.10	9.81	8.96	7.12	6.03	10.10	-0.13	-1.3%
SC-207.07	10 min	4364	17.21	17.25	0.94	17.33	16.27	14.87	13.96	12.63	10.88	16.27	-1.06	-6.1%
SC-207.08	10 min	4364	25.94	25.61	0.79	25.66	25.50	23.88	22.34	18.92	16.32	25.50	-0.16	-0.6%
SC-207.09	10 min	4354	29.65	29.44	0.66	29.47	29.47	27.35	25.64	22.03	19.09	29.47	0.00	0.0%
SC-207.10	15 min	4401	30.37	30.35	1.54	30.45	30.11	28.53	26.50	23.01	19.99	30.11	-0.34	-1.1%
SC-207.11	15 min	4393	32.73	32.92	1.12	32.94	32.08	31.08	28.34	25.03	21.94	32.08	-0.86	-2.6%
SC-207.12	15 min	4358	47.11	47.07	2.34	47.59	46.73	44.35	41.14	35.69	30.95	46.73	-0.87	-1.8%
SC-207.13	15 min	4358	49.74	49.82	2.08	50.33	48.94	47.08	43.20	37.86	33.38	48.94	-1.39	-2.8%
SC-207.14	15 min	4358	51.39	51.62	1.67	51.68	50.06	49.43	44.51	39.16	35.15	50.06	-1.62	-3.1%
SC-208.01	10 min	4363	1.25	1.26	0.11	1.31	1.36	1.43	1.27	0.75	0.61	1.43	0.12	8.8%
SC-208.02	10 min	4363	1.78	1.82	0.14	1.83	1.90	1.99	1.77	1.09	0.90	1.99	0.16	8.7%
SC-208.03	10 min	4363	2.39	2.43	0.20	2.44	2.54	2.65	2.36	1.49	1.23	2.65	0.21	8.7%
SC-208.04	10 min	4361	3.76	3.80	0.22	3.80	3.87	3.86	3.52	2.44	2.04	3.87	0.07	1.8%
SC-208.05	10 min	4361	4.34	4.35	0.14	4.36	4.40	4.22	3.93	2.89	2.43	4.40	0.04	0.8%
SC-209.01	10 min	4363	0.78	0.80	0.06	0.80	0.83	0.87	0.78	0.51	0.40	0.87	0.07	8.7%
SC-21.01	10 min	4363	0.94	0.96	0.08	0.97	1.01	1.06	0.94	0.57	0.47	1.06	0.09	8.9%
SC-210.01	10 min	4363	1.76	1.80	0.15	1.83	1.91	1.99	1.76	1.07	0.89	1.99	0.16	9.0%
SC-210.02	10 min	4365	2.44	2.48	0.18	2.50	2.57	2.69	2.38	1.53	1.28	2.69	0.19	7.5%
SC-211.01	20 min	4429	0.73	0.72	0.07	0.72	0.52	0.62	0.69	0.58	0.52	0.69	-0.03	-3.8%
SC-211.02	20 min	4399	1.58	1.57	0.07	1.58	1.02	1.32	1.51	1.40	1.25	1.51	-0.07	-4.4%
SC-211.03	20 min	4399	2.53	2.49	0.19	2.50	1.82	2.11	2.39	2.30	1.98	2.39	-0.11	-4.4%
SC-211.04	20 min	4399	2.97	2.94	0.22	2.96	2.37	2.51	2.70	2.72	2.35	2.72	-0.24	-8.1%
SC-212.01	45 min	4531	0.27	0.27	0.02	0.27	0.14	0.18	0.22	0.29	0.20	0.29	0.02	7.7%
SC-212.02	20 min	4433	0.55	0.54	0.06	0.54	0.42	0.47	0.52	0.54	0.42	0.54	0.00	-0.1%
SC-213.01	10 min	4363	0.72	0.73	0.06	0.75	0.78	0.81	0.72	0.44	0.35	0.81	0.06	8.2%
SC-213.02	10 min	4368	1.22	1.25	0.10	1.25	1.30	1.36	1.20	0.76	0.62	1.36	0.11	8.6%
SC-214.01	10 min	4363	0.89	0.91	0.07	0.92	0.95	1.00	0.89	0.54	0.45	1.00	0.08	8.4%
SC-214.02	10 min	4363	1.92	1.96	0.16	1.99	2.07	2.16	1.92	1.17	0.96	2.16	0.17	8.6%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-215.01	10 min	4363	0.72	0.74	0.06	0.74	0.77	0.81	0.72	0.45	0.38	0.81	0.07	9.7%
SC-215.02	10 min	4361	1.31	1.32	0.09	1.33	1.35	1.41	1.25	0.84	0.69	1.41	0.08	6.2%
SC-216.01	10 min	4363	0.66	0.67	0.06	0.70	0.73	0.76	0.68	0.40	0.32	0.76	0.06	8.6%
SC-216.02	10 min	4363	2.02	2.06	0.17	2.09	2.18	2.27	2.03	1.24	1.00	2.27	0.18	8.8%
SC-216.03	10 min	4368	3.21	3.27	0.26	3.29	3.40	3.55	3.16	2.01	1.64	3.55	0.26	7.9%
SC-216.04	10 min	4366	4.50	4.49	0.23	4.60	4.78	4.76	4.34	3.03	2.49	4.78	0.18	3.8%
SC-217.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.54	0.48	0.29	0.23	0.54	0.05	9.7%
SC-218.01	10 min	4363	0.36	0.36	0.03	0.38	0.39	0.41	0.37	0.22	0.17	0.41	0.03	8.1%
SC-219.01	10 min	4363	0.47	0.48	0.04	0.49	0.51	0.54	0.48	0.29	0.23	0.54	0.05	9.7%
SC-22.01	10 min	4363	0.53	0.54	0.04	0.54	0.56	0.59	0.52	0.32	0.26	0.59	0.05	8.6%
SC-220.01	10 min	4363	0.74	0.75	0.06	0.76	0.79	0.83	0.74	0.45	0.37	0.83	0.07	9.0%
SC-221.01	10 min	4363	0.68	0.69	0.06	0.70	0.73	0.76	0.68	0.41	0.34	0.76	0.06	8.9%
SC-221.02	10 min	4354	1.49	1.48	0.11	1.51	1.51	1.58	1.39	0.94	0.78	1.58	0.07	4.4%
SC-221.03	10 min	4361	1.82	1.84	0.12	1.86	1.87	1.95	1.73	1.16	0.97	1.95	0.09	4.8%
SC-221.04	10 min	4361	2.67	2.69	0.19	2.72	2.74	2.87	2.55	1.70	1.42	2.87	0.15	5.5%
SC-221.05	10 min	4354	3.45	3.44	0.22	3.48	3.48	3.58	3.18	2.23	1.88	3.58	0.10	3.0%
SC-221.06	10 min	4354	3.62	3.64	0.21	3.67	3.67	3.79	3.38	2.40	2.03	3.79	0.12	3.4%
SC-222.01	10 min	4363	0.74	0.76	0.06	0.77	0.80	0.83	0.74	0.45	0.38	0.83	0.06	8.4%
SC-222.02	10 min	4361	1.19	1.20	0.08	1.21	1.23	1.28	1.14	0.75	0.62	1.28	0.07	5.9%
SC-222.03	10 min	4364	2.74	2.66	0.27	2.69	2.56	2.70	2.38	1.82	1.51	2.70	0.01	0.3%
SC-223.01	10 min	4363	0.32	0.32	0.03	0.32	0.34	0.35	0.31	0.19	0.16	0.35	0.03	10.0%
SC-224.01	15 min	4401	0.94	0.88	0.15	0.89	0.87	0.74	0.76	0.71	0.59	0.87	-0.02	-2.2%
SC-225.01	10 min	4363	0.59	0.60	0.05	0.61	0.63	0.66	0.59	0.36	0.30	0.66	0.05	8.8%
SC-226.01	10 min	4363	0.43	0.44	0.04	0.45	0.47	0.49	0.44	0.26	0.21	0.49	0.04	8.6%
SC-226.02	10 min	4354	1.02	1.03	0.08	1.05	1.05	1.10	0.97	0.65	0.53	1.10	0.04	4.3%
SC-226.03	10 min	4354	2.13	2.10	0.15	2.14	2.14	2.24	1.98	1.36	1.12	2.24	0.10	4.5%
SC-226.04	10 min	4361	3.17	3.20	0.22	3.24	3.25	3.39	3.01	2.04	1.70	3.39	0.15	4.7%
SC-226.05	10 min	4361	12.67	12.74	0.85	12.91	12.94	13.44	11.94	8.40	7.00	13.44	0.53	4.1%
SC-226.06	10 min	4365	13.99	13.97	0.68	14.02	14.33	14.49	13.06	9.34	7.92	14.49	0.47	3.3%
SC-226.07	10 min	4363	15.18	15.18	0.53	15.32	15.73	15.58	14.19	10.43	8.84	15.73	0.41	2.7%
SC-226.08	10 min	4363	15.84	15.83	0.56	16.12	16.50	16.18	14.83	11.01	9.32	16.50	0.38	2.3%
SC-227.01	10 min	4363	0.23	0.23	0.02	0.23	0.24	0.25	0.23	0.14	0.11	0.25	0.02	10.3%
SC-228.01	10 min	4363	0.48	0.49	0.04	0.50	0.52	0.54	0.48	0.29	0.24	0.54	0.04	8.8%
SC-229.01	10 min	4363	0.34	0.35	0.03	0.35	0.37	0.38	0.34	0.21	0.17	0.38	0.03	9.4%
SC-23.01	10 min	4363	0.69	0.70	0.06	0.71	0.74	0.77	0.69	0.42	0.34	0.77	0.06	8.8%
SC-23.02	10 min	4354	2.07	2.06	0.16	2.09	2.09	2.19	1.94	1.32	1.07	2.19	0.10	4.9%
SC-23.03	10 min	4354	2.56	2.52	0.18	2.56	2.56	2.68	2.36	1.65	1.35	2.68	0.12	4.6%
SC-230.01	10 min	4363	0.34	0.34	0.03	0.35	0.36	0.38	0.33	0.21	0.17	0.38	0.03	8.1%
SC-231.01	10 min	4363	0.37	0.38	0.03	0.39	0.40	0.42	0.37	0.23	0.19	0.42	0.03	7.9%
SC-232.01	10 min	4365	0.92	0.94	0.07	0.94	0.97	1.01	0.90	0.59	0.48	1.01	0.07	7.4%
SC-232.02	10 min	4365	1.47	1.48	0.11	1.48	1.53	1.60	1.42	0.95	0.77	1.60	0.12	7.8%
SC-232.03	10 min	4354	3.42	3.44	0.24	3.49	3.49	3.65	3.24	2.20	1.82	3.65	0.16	4.6%
SC-233.01	10 min	4363	0.66	0.67	0.05	0.68	0.71	0.74	0.65	0.40	0.33	0.74	0.06	8.5%
SC-233.02	10 min	4361	1.09	1.10	0.08	1.11	1.12	1.17	1.04	0.68	0.57	1.17	0.05	5.0%
SC-234.01	10 min	4363	0.95	0.97	0.08	0.98	1.02	1.07	0.95	0.58	0.48	1.07	0.09	9.3%
SC-234.02	10 min	4354	1.84	1.85	0.13	1.88	1.88	1.96	1.74	1.17	0.98	1.96	0.08	4.3%
SC-234.03	10 min	4354	5.45	5.41	0.37	5.49	5.49	5.75	5.09	3.61	3.01	5.75	0.26	4.7%
SC-235.01	10 min	4363	0.35	0.35	0.03	0.36	0.38	0.40	0.35	0.21	0.17	0.40	0.04	10.1%
SC-236.01	10 min	4363	0.44	0.45	0.04	0.46	0.48	0.50	0.45	0.27	0.22	0.50	0.04	9.2%
SC-236.02	10 min	4363	0.68	0.70	0.06	0.71	0.74	0.77	0.68	0.42	0.34	0.77	0.06	8.5%
SC-237.01	10 min	4363	0.60	0.61	0.05	0.62	0.64	0.67	0.60	0.37	0.31	0.67	0.05	8.5%
SC-237.02	10 min	4364	1.33	1.30	0.11	1.31	1.26	1.33	1.24	0.96	0.80	1.33	0.02	1.4%
SC-238.01	10 min	4363	0.39	0.39	0.03	0.40	0.42	0.44	0.39	0.23	0.19	0.44	0.04	9.7%
SC-238.02	10 min	4354	0.90	0.90	0.06	0.91	0.91	0.96	0.85	0.56	0.47	0.96	0.05	5.1%
SC-239.01	10 min	4363	0.50	0.51	0.04	0.51	0.53	0.56	0.50	0.31	0.25	0.56	0.05	9.1%
SC-24.01	10 min	4363	0.60	0.61	0.05	0.62	0.65	0.67	0.60	0.37	0.30	0.67	0.05	8.8%
SC-240.01	20 min	4433	1.40	1.38	0.14	1.39	1.03	1.21	1.29	1.09	0.98	1.29	-0.10	-7.1%
SC-240.02	20 min	4429	2.04	1.97	0.19	1.99	1.57	1.71	1.93	1.64	1.42	1.93	-0.06	-3.1%
SC-241.01	10 min	4364	6.16	6.23	0.44	6.26	5.66	4.57	4.89	4.44	3.65	5.66	-0.60	-9.6%
SC-242.01	10 min	4363	0.69	0.71	0.06	0.71	0.74	0.77	0.69	0.45	0.36	0.77	0.06	8.1%
SC-242.02	10 min	4361	1.80	1.82	0.13	1.83	1.87	1.96	1.74	1.18	0.96	1.96	0.13	6.9%
SC-242.03	10 min	4361	2.68	2.71	0.20	2.72	2.77	2.90	2.58	1.75	1.43	2.90	0.18	6.6%
SC-242.04	10 min	4361	2.85	2.88	0.22	2.89	2.96	3.09	2.74	1.87	1.53	3.09	0.20	7.0%
SC-242.05	10 min	4354	6.35	6.33	0.41	6.41	6.41	6.52	5.86	4.12	3.43	6.52	0.11	1.7%
SC-242.06	10 min	4354	8.37	8.13	0.53	8.16	8.16	8.27	7.45	5.50	4.61	8.27	0.11	1.4%
SC-242.07	10 min	4354	9.07	8.79	0.56	8.82	8.82	8.85	7.98	6.06	5.07	8.85	0.03	0.4%
SC-242.08	10 min	4364	17.82	17.71	0.96	17.76	16.94	15.66	14.47	12.41	10.29	16.94	-0.82	-4.6%
SC-243.01	10 min	4363	0.66	0.67	0.06	0.69	0.72	0.75	0.66	0.39	0.33	0.75	0.06	8.4%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-243.02	10 min	4365	2.43	2.46	0.18	2.47	2.55	2.66	2.36	1.50	1.26	2.66	0.19	7.7%
SC-244.01	10 min	4363	0.92	0.94	0.08	0.96	1.01	1.05	0.93	0.56	0.46	1.05	0.09	9.6%
SC-245.01	10 min	4363	0.49	0.50	0.04	0.51	0.53	0.55	0.49	0.29	0.24	0.55	0.04	8.1%
SC-246.01	10 min	4363	0.33	0.34	0.03	0.34	0.36	0.37	0.33	0.20	0.17	0.37	0.03	9.8%
SC-246.02	10 min	4364	0.91	0.87	0.09	0.89	0.86	0.88	0.79	0.60	0.49	0.88	-0.02	-1.7%
SC-247.01	10 min	4354	0.90	0.89	0.06	0.91	0.91	0.95	0.84	0.57	0.47	0.95	0.04	4.1%
SC-247.02	10 min	4364	2.32	2.36	0.29	2.38	2.00	1.89	1.95	1.57	1.30	2.00	-0.38	-15.8%
SC-248.01	10 min	4364	1.17	1.18	0.13	1.19	1.03	0.88	0.93	0.80	0.65	1.03	-0.16	-13.8%
SC-249.01	20 min	4399	0.28	0.27	0.03	0.27	0.20	0.24	0.25	0.21	0.19	0.25	-0.02	-8.2%
SC-249.02	20 min	4371	0.81	0.78	0.11	0.78	0.71	0.75	0.78	0.62	0.52	0.78	0.00	-0.1%
SC-249.03	10 min	4364	1.66	1.61	0.12	1.61	1.59	1.66	1.54	1.21	1.00	1.66	0.05	3.2%
SC-249.04	10 min	4354	4.02	3.91	0.27	3.96	3.96	4.14	3.67	2.84	2.33	4.14	0.18	4.5%
SC-249.05	10 min	4354	11.97	11.61	0.82	11.65	11.65	11.95	10.55	8.15	6.81	11.95	0.30	2.5%
SC-249.06	10 min	4364	20.41	20.41	1.04	20.47	19.35	18.07	16.60	14.89	12.59	19.35	-1.12	-5.5%
SC-25.01	10 min	4363	1.83	1.86	0.16	1.90	1.98	2.07	1.84	1.10	0.91	2.07	0.17	8.7%
SC-25.02	10 min	4361	2.63	2.66	0.19	2.66	2.73	2.85	2.53	1.63	1.36	2.85	0.19	7.1%
SC-25.03	10 min	4365	2.86	2.90	0.21	2.92	3.01	3.14	2.79	1.80	1.50	3.14	0.22	7.7%
SC-25.04	10 min	4361	4.85	4.89	0.35	4.94	4.99	5.23	4.63	3.09	2.58	5.23	0.29	5.8%
SC-250.01	10 min	4363	0.21	0.21	0.02	0.22	0.22	0.24	0.21	0.13	0.11	0.24	0.02	6.9%
SC-251.01	10 min	4363	0.52	0.53	0.04	0.53	0.55	0.58	0.51	0.32	0.27	0.58	0.05	9.1%
SC-252.01	10 min	4361	0.60	0.61	0.04	0.61	0.62	0.65	0.58	0.41	0.33	0.65	0.04	6.9%
SC-252.02	10 min	4365	1.11	1.13	0.08	1.14	1.17	1.23	1.09	0.72	0.59	1.23	0.09	7.5%
SC-253.01	10 min	4363	0.87	0.89	0.08	0.90	0.94	0.99	0.87	0.52	0.44	0.99	0.09	9.7%
SC-253.02	10 min	4365	3.17	3.20	0.23	3.21	3.30	3.45	3.06	2.01	1.67	3.45	0.24	7.4%
SC-253.03	10 min	4365	3.84	3.90	0.31	3.92	4.04	4.22	3.75	2.47	2.05	4.22	0.30	7.7%
SC-254.01	10 min	4363	0.89	0.90	0.07	0.91	0.95	0.99	0.88	0.55	0.46	0.99	0.08	9.1%
SC-255.01	10 min	4361	0.84	0.85	0.05	0.86	0.86	0.90	0.80	0.57	0.47	0.90	0.04	5.0%
SC-256.01	10 min	4361	0.74	0.74	0.05	0.74	0.77	0.80	0.71	0.46	0.38	0.80	0.06	8.1%
SC-257.01	10 min	4365	0.41	0.42	0.03	0.42	0.43	0.45	0.40	0.26	0.21	0.45	0.03	6.9%
SC-258.01	10 min	4354	1.89	1.90	0.13	1.92	1.92	2.01	1.79	1.19	0.97	2.01	0.09	4.6%
SC-258.02	10 min	4364	3.20	3.25	0.42	3.28	2.73	2.84	2.76	2.18	1.80	2.84	-0.44	-13.3%
SC-259.01	10 min	4363	0.80	0.81	0.07	0.83	0.87	0.91	0.80	0.51	0.40	0.91	0.08	9.1%
SC-259.02	10 min	4361	1.69	1.71	0.13	1.71	1.75	1.83	1.63	1.10	0.89	1.83	0.12	7.2%
SC-259.03	10 min	4365	2.40	2.43	0.19	2.43	2.50	2.62	2.32	1.55	1.27	2.62	0.19	7.8%
SC-259.04	10 min	4365	4.34	4.38	0.33	4.39	4.52	4.73	4.20	2.83	2.29	4.73	0.34	7.6%
SC-259.05	10 min	4361	5.34	5.39	0.41	5.41	5.54	5.79	5.13	3.50	2.85	5.79	0.38	7.1%
SC-259.06	10 min	4365	6.87	6.94	0.52	6.96	7.16	7.46	6.62	4.52	3.69	7.46	0.50	7.1%
SC-259.07	10 min	4356	8.84	8.71	0.41	8.73	9.34	9.03	8.36	6.09	5.13	9.34	0.61	6.9%
SC-259.08	10 min	4356	10.47	10.44	0.31	10.47	10.82	10.11	9.56	7.23	6.07	10.82	0.35	3.3%
SC-259.09	10 min	4356	27.82	27.77	0.33	27.80	28.21	26.11	24.62	20.29	17.57	28.21	0.41	1.5%
SC-259.10	10 min	4356	28.24	28.21	0.30	28.24	28.58	26.69	25.00	20.67	18.03	28.58	0.34	1.2%
SC-26.01	10 min	4363	0.56	0.58	0.04	0.58	0.60	0.63	0.56	0.35	0.28	0.63	0.05	7.9%
SC-260.01	10 min	4363	0.53	0.54	0.05	0.55	0.58	0.60	0.54	0.32	0.27	0.60	0.05	9.8%
SC-261.01	10 min	4363	0.68	0.69	0.05	0.69	0.72	0.75	0.67	0.43	0.35	0.75	0.06	9.0%
SC-262.01	10 min	4363	0.78	0.79	0.07	0.81	0.84	0.88	0.78	0.47	0.39	0.88	0.07	8.7%
SC-262.02	10 min	4365	1.42	1.44	0.11	1.44	1.49	1.55	1.38	0.88	0.74	1.55	0.11	7.8%
SC-263.01	10 min	4363	0.83	0.84	0.07	0.85	0.89	0.93	0.82	0.51	0.42	0.93	0.08	9.3%
SC-264.01	10 min	4363	0.45	0.46	0.04	0.47	0.49	0.51	0.45	0.28	0.22	0.51	0.04	8.2%
SC-265.01	10 min	4363	0.60	0.61	0.05	0.62	0.64	0.67	0.60	0.38	0.31	0.67	0.05	8.5%
SC-265.02	15 min	4400	1.56	1.47	0.26	1.50	1.46	1.54	1.47	1.14	0.96	1.54	0.04	2.5%
SC-265.03	15 min	4401	2.72	2.62	0.30	2.66	2.61	2.34	2.25	2.06	1.76	2.61	-0.05	-2.0%
SC-265.04	10 min	4361	12.78	12.76	0.33	12.83	12.84	12.21	11.27	9.47	8.25	12.84	0.01	0.1%
SC-266.01	10 min	4354	0.79	0.77	0.05	0.78	0.78	0.82	0.73	0.55	0.45	0.82	0.04	5.2%
SC-266.02	10 min	4354	1.50	1.46	0.10	1.47	1.47	1.54	1.37	1.05	0.87	1.54	0.07	4.7%
SC-266.03	10 min	4361	1.78	1.80	0.12	1.82	1.83	1.91	1.70	1.25	1.04	1.91	0.09	4.9%
SC-266.04	10 min	4354	7.01	6.81	0.48	6.89	6.89	7.17	6.36	5.02	4.16	7.17	0.28	4.0%
SC-266.05	10 min	4361	8.01	8.03	0.29	8.04	8.21	8.21	7.41	5.93	5.03	8.21	0.17	2.1%
SC-267.01	10 min	4363	0.73	0.75	0.06	0.75	0.78	0.82	0.73	0.45	0.37	0.82	0.07	9.2%
SC-268.01	10 min	4363	1.24	1.26	0.10	1.27	1.33	1.39	1.23	0.78	0.64	1.39	0.12	9.3%
SC-268.02	10 min	4354	3.27	3.22	0.22	3.27	3.27	3.41	3.03	2.28	1.88	3.41	0.14	4.4%
SC-269.01	15 min	4401	0.56	0.52	0.09	0.52	0.50	0.52	0.53	0.42	0.35	0.53	0.01	1.2%
SC-27.01	10 min	4354	0.61	0.60	0.04	0.60	0.60	0.63	0.56	0.41	0.34	0.63	0.03	4.3%
SC-270.01	10 min	4364	0.63	0.64	0.06	0.65	0.57	0.51	0.56	0.46	0.39	0.57	-0.08	-13.0%
SC-271.01	10 min	4364	0.39	0.40	0.04	0.40	0.35	0.33	0.34	0.28	0.23	0.35	-0.05	-13.0%
SC-272.01	20 min	4433	0.93	0.87	0.12	0.87	0.80	0.77	0.85	0.69	0.59	0.85	-0.02	-1.8%
SC-272.02	10 min	4364	1.92	1.94	0.23	1.96	1.66	1.70	1.78	1.40	1.17	1.78	-0.19	-9.4%
SC-272.03	10 min	4364	3.18	3.19	0.38	3.23	2.79	2.86	2.86	2.24	1.86	2.86	-0.37	-11.4%
SC-273.01	10 min	4364	0.89	0.89	0.12	0.90	0.77	0.79	0.76	0.59	0.49	0.79	-0.11	-11.8%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min			
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431		m ³ /s	%
SC-274.01	20 min	4433	0.47	0.47	0.05	0.47	0.33	0.39	0.48	0.43	0.36	0.48	0.01	2.9%
SC-274.02	10 min	4354	1.78	1.73	0.13	1.76	1.76	1.84	1.66	1.33	1.02	1.84	0.08	4.6%
SC-274.03	10 min	4361	4.22	4.25	0.29	4.31	4.32	4.51	4.01	2.87	2.29	4.51	0.20	4.7%
SC-274.04	10 min	4361	5.45	5.49	0.37	5.51	5.63	5.90	5.22	3.66	2.94	5.90	0.39	7.0%
SC-274.05	10 min	4354	7.23	7.14	0.54	7.26	7.26	7.63	6.67	4.86	3.92	7.63	0.37	5.2%
SC-275.01	10 min	4363	0.80	0.82	0.07	0.83	0.87	0.91	0.80	0.49	0.41	0.91	0.08	9.1%
SC-276.01	10 min	4363	0.58	0.59	0.05	0.60	0.63	0.65	0.58	0.35	0.29	0.65	0.05	9.0%
SC-277.01	10 min	4361	0.75	0.75	0.05	0.76	0.77	0.80	0.71	0.47	0.38	0.80	0.04	5.3%
SC-278.01	10 min	4363	0.45	0.46	0.04	0.46	0.48	0.50	0.45	0.27	0.23	0.50	0.04	9.7%
SC-278.02	10 min	4364	6.21	6.30	0.73	6.36	5.39	4.59	5.11	4.21	3.45	5.39	-0.97	-15.3%
SC-279.01	10 min	4364	0.81	0.82	0.10	0.83	0.71	0.74	0.71	0.56	0.47	0.74	-0.09	-10.3%
SC-279.02	10 min	4364	5.84	5.89	0.77	5.96	5.03	4.93	4.97	3.94	3.26	5.03	-0.93	-15.6%
SC-28.01	15 min	4401	0.54	0.51	0.07	0.52	0.46	0.46	0.45	0.41	0.36	0.46	-0.06	-10.8%
SC-28.02	20 min	4433	1.21	1.12	0.17	1.13	1.04	1.03	1.12	0.90	0.76	1.12	-0.01	-1.0%
SC-28.03	15 min	4396	1.68	1.58	0.26	1.60	1.52	1.60	1.58	1.25	1.05	1.60	0.00	-0.3%
SC-28.04	10 min	4357	3.59	3.47	0.28	3.47	3.47	3.64	3.21	2.46	2.04	3.64	0.17	5.0%
SC-280.01	10 min	4354	0.76	0.74	0.05	0.75	0.75	0.78	0.70	0.50	0.42	0.78	0.03	4.3%
SC-29.01	10 min	4363	0.56	0.57	0.05	0.58	0.60	0.63	0.56	0.34	0.28	0.63	0.05	7.9%
SC-29.02	10 min	4354	1.56	1.57	0.11	1.59	1.59	1.66	1.47	0.98	0.81	1.66	0.07	4.7%
SC-3.01	10 min	4364	0.70	0.70	0.07	0.70	0.65	0.68	0.62	0.49	0.41	0.68	-0.02	-3.6%
SC-3.02	15 min	4396	2.29	2.15	0.38	2.17	2.06	2.17	2.10	1.66	1.39	2.17	0.00	-0.2%
SC-30.01	10 min	4363	0.99	1.01	0.08	1.03	1.07	1.12	1.00	0.60	0.50	1.12	0.09	8.9%
SC-30.02	10 min	4354	1.82	1.82	0.13	1.84	1.84	1.93	1.71	1.15	0.95	1.93	0.09	4.6%
SC-30.03	10 min	4354	2.53	2.54	0.17	2.58	2.58	2.70	2.39	1.60	1.33	2.70	0.12	4.5%
SC-30.04	10 min	4361	3.22	3.25	0.23	3.28	3.31	3.46	3.07	2.05	1.71	3.46	0.18	5.5%
SC-31.01	10 min	4357	0.70	0.67	0.06	0.67	0.67	0.70	0.62	0.45	0.37	0.70	0.03	4.7%
SC-31.02	10 min	4354	1.47	1.42	0.12	1.43	1.43	1.50	1.32	0.95	0.79	1.50	0.07	4.8%
SC-32.01	10 min	4364	0.67	0.68	0.06	0.68	0.60	0.49	0.55	0.47	0.39	0.60	-0.08	-11.1%
SC-32.02	15 min	4401	0.93	0.90	0.13	0.91	0.86	0.74	0.74	0.71	0.59	0.86	-0.05	-5.5%
SC-33.01	10 min	4363	0.84	0.85	0.07	0.86	0.90	0.94	0.83	0.51	0.42	0.94	0.08	9.1%
SC-33.02	10 min	4365	1.95	1.97	0.14	1.97	2.03	2.13	1.88	1.22	1.02	2.13	0.16	8.0%
SC-34.01	10 min	4354	0.67	0.66	0.05	0.67	0.67	0.70	0.62	0.42	0.34	0.70	0.03	4.1%
SC-34.02	10 min	4354	1.37	1.32	0.11	1.34	1.34	1.40	1.24	0.88	0.71	1.40	0.06	4.3%
SC-34.03	10 min	4361	1.61	1.61	0.09	1.63	1.64	1.72	1.53	1.04	0.86	1.72	0.09	5.5%
SC-35.01	10 min	4363	0.60	0.60	0.05	0.63	0.65	0.68	0.61	0.36	0.29	0.68	0.05	8.5%
SC-35.02	10 min	4365	1.65	1.68	0.13	1.69	1.74	1.81	1.62	1.02	0.83	1.81	0.12	7.3%
SC-35.03	10 min	4365	2.63	2.67	0.21	2.69	2.77	2.89	2.57	1.63	1.32	2.89	0.20	7.5%
SC-35.04	10 min	4368	2.80	2.86	0.23	2.87	2.97	3.09	2.76	1.76	1.42	3.09	0.22	7.8%
SC-36.01	10 min	4363	1.28	1.31	0.10	1.32	1.37	1.43	1.27	0.78	0.65	1.43	0.11	8.6%
SC-36.02	10 min	4363	2.31	2.35	0.19	2.37	2.47	2.58	2.29	1.40	1.17	2.58	0.21	8.7%
SC-37.01	10 min	4363	0.49	0.50	0.04	0.50	0.52	0.55	0.49	0.30	0.25	0.55	0.05	9.5%
SC-37.02	10 min	4361	1.39	1.41	0.10	1.42	1.43	1.50	1.33	0.87	0.71	1.50	0.08	5.4%
SC-38.01	10 min	4365	0.58	0.59	0.05	0.59	0.61	0.63	0.56	0.36	0.29	0.63	0.04	7.5%
SC-39.01	10 min	4363	0.33	0.34	0.03	0.34	0.36	0.37	0.33	0.20	0.17	0.37	0.03	9.2%
SC-4.01	15 min	4392	0.80	0.74	0.14	0.74	0.72	0.65	0.72	0.60	0.51	0.72	-0.02	-2.3%
SC-40.01	10 min	4363	0.77	0.78	0.07	0.81	0.85	0.89	0.79	0.46	0.37	0.89	0.08	9.7%
SC-41.01	10 min	4363	0.50	0.51	0.04	0.53	0.55	0.58	0.51	0.30	0.24	0.58	0.05	8.6%
SC-42.01	10 min	4363	1.72	1.74	0.15	1.81	1.88	1.97	1.75	1.03	0.84	1.97	0.16	8.9%
SC-43.01	10 min	4363	0.37	0.37	0.03	0.39	0.41	0.43	0.38	0.22	0.17	0.43	0.04	9.8%
SC-44.01	10 min	4363	1.19	1.21	0.10	1.23	1.29	1.35	1.19	0.72	0.60	1.35	0.12	9.3%
SC-44.02	10 min	4361	1.92	1.94	0.14	1.95	1.98	2.07	1.84	1.20	1.00	2.07	0.12	6.1%
SC-44.03	10 min	4361	2.63	2.65	0.18	2.67	2.72	2.85	2.52	1.66	1.38	2.85	0.18	6.6%
SC-44.04	10 min	4354	4.04	4.05	0.29	4.11	4.11	4.31	3.81	2.58	2.15	4.31	0.20	4.8%
SC-44.05	10 min	4361	7.05	7.09	0.41	7.15	7.20	7.37	6.60	4.59	3.87	7.37	0.22	3.1%
SC-44.06	10 min	4361	7.52	7.53	0.37	7.54	7.68	7.72	6.98	5.01	4.24	7.72	0.18	2.3%
SC-44.07	10 min	4354	8.52	8.41	0.24	8.44	8.44	8.09	7.43	6.07	5.12	8.44	0.00	-0.1%
SC-44.08	10 min	4364	10.90	10.80	0.36	10.83	10.61	9.68	9.15	7.79	6.55	10.61	-0.22	-2.1%
SC-44.09	10 min	4364	11.51	11.44	0.24	11.45	11.37	10.52	9.89	8.40	7.34	11.37	-0.08	-0.7%
SC-44.10	10 min	4720	1.79	1.79	0.11	1.81	0.68	0.70	0.71	0.76	2.17	2.17	0.35	19.3%
SC-44.11	30 min	4498	13.07	12.86	1.31	13.48	5.40	11.44	13.34	15.28	13.23	15.28	1.80	13.4%
SC-44.12	10 min	4787	0.77	0.79	0.08	0.78	0.00	0.00	0.00	0.00	0.99	0.99	0.21	27.4%
SC-44.13	10 min	4787	0.82	0.82	0.04	0.82	0.20	0.24	0.28	0.38	0.97	0.97	0.15	18.5%
SC-44.14	10 min	4787	1.61	1.61	0.08	1.62	0.73	1.19	1.40	1.67	1.57	1.67	0.05	3.2%
SC-44.15	10 min	4785	2.79	2.80	0.03	2.80	2.36	2.53	2.63	2.88	2.91	2.91	0.11	4.0%
SC-44.16	10 min	4785	2.85	2.86	0.03	2.86	2.46	2.63	2.73	2.97	2.97	2.97	0.11	3.7%
SC-44.17	10 min	4785	12.21	10.57	4.88	11.00	9.74	8.98	8.98	8.62	7.34	9.74	-1.26	-11.5%
SC-44.18	10 min	4785	12.34	10.69	4.91	11.13	9.95	9.56	9.21	9.26	7.91	9.95	-1.18	-10.6%
SC-44.19	10 min	4785	12.57	10.93	4.97	11.38	11.42	10.99	10.08	10.47	9.06	11.42	0.04	0.4%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-44.20	10 min	4785	11.63	10.79	3.66	11.15	9.58	10.05	9.50	10.00	9.14	10.05	-1.10	-9.9%
SC-45.01	10 min	4354	0.90	0.90	0.06	0.92	0.92	0.96	0.85	0.58	0.48	0.96	0.04	4.0%
SC-46.01	10 min	4363	0.72	0.73	0.06	0.74	0.77	0.80	0.71	0.44	0.37	0.80	0.06	8.2%
SC-46.02	10 min	4354	1.25	1.23	0.09	1.25	1.25	1.31	1.16	0.79	0.65	1.31	0.06	4.6%
SC-46.03	10 min	4354	1.87	1.87	0.13	1.90	1.90	1.99	1.76	1.18	0.99	1.99	0.09	4.5%
SC-46.04	10 min	4361	2.11	2.12	0.15	2.15	2.16	2.26	2.01	1.34	1.12	2.26	0.11	5.2%
SC-47.01	10 min	4363	1.17	1.19	0.10	1.21	1.26	1.32	1.17	0.71	0.59	1.32	0.11	8.9%
SC-48.01	10 min	4363	0.88	0.90	0.07	0.91	0.95	0.99	0.88	0.53	0.44	0.99	0.08	8.9%
SC-48.02	10 min	4354	1.41	1.41	0.10	1.44	1.44	1.50	1.33	0.88	0.73	1.50	0.06	4.2%
SC-49.01	10 min	4363	0.99	1.01	0.08	1.01	1.06	1.10	0.98	0.61	0.49	1.10	0.09	9.2%
SC-5.01	10 min	4354	0.63	0.63	0.04	0.64	0.64	0.66	0.59	0.40	0.33	0.66	0.02	3.8%
SC-50.01	10 min	4364	0.35	0.34	0.04	0.34	0.34	0.36	0.31	0.23	0.19	0.36	0.02	4.4%
SC-51.01	10 min	4361	0.35	0.35	0.03	0.35	0.36	0.38	0.34	0.22	0.17	0.38	0.03	7.6%
SC-52.01	10 min	4368	0.35	0.35	0.03	0.36	0.37	0.38	0.34	0.22	0.17	0.38	0.02	6.7%
SC-53.01	10 min	4363	0.85	0.87	0.07	0.88	0.91	0.95	0.85	0.52	0.43	0.95	0.07	8.4%
SC-53.02	10 min	4354	1.78	1.75	0.13	1.78	1.78	1.87	1.65	1.13	0.93	1.87	0.09	4.8%
SC-53.03	10 min	4361	2.13	2.14	0.15	2.17	2.17	2.27	2.02	1.36	1.14	2.27	0.10	4.7%
SC-54.01	10 min	4363	0.69	0.70	0.06	0.71	0.74	0.77	0.69	0.42	0.35	0.77	0.06	8.8%
SC-54.02	10 min	4354	1.36	1.34	0.10	1.36	1.36	1.42	1.25	0.86	0.70	1.42	0.06	4.6%
SC-55.01	10 min	4363	1.07	1.09	0.09	1.11	1.15	1.20	1.07	0.65	0.54	1.20	0.09	8.3%
SC-56.01	10 min	4354	0.51	0.50	0.04	0.51	0.51	0.53	0.47	0.33	0.26	0.53	0.02	4.0%
SC-57.01	10 min	4364	0.38	0.37	0.05	0.38	0.34	0.36	0.33	0.25	0.21	0.36	-0.02	-4.2%
SC-58.01	10 min	4363	0.70	0.71	0.06	0.72	0.76	0.79	0.70	0.43	0.35	0.79	0.07	9.9%
SC-59.01	10 min	4368	0.95	0.97	0.07	0.97	1.01	1.05	0.93	0.60	0.50	1.05	0.08	8.7%
SC-59.02	10 min	4354	1.82	1.79	0.13	1.82	1.82	1.90	1.68	1.18	0.98	1.90	0.08	4.3%
SC-59.03	10 min	4354	2.64	2.62	0.19	2.66	2.66	2.79	2.47	1.71	1.41	2.79	0.13	4.8%
SC-59.04	10 min	4354	3.40	3.40	0.24	3.45	3.45	3.61	3.20	2.19	1.81	3.61	0.16	4.7%
SC-59.05	10 min	4354	7.42	7.27	0.46	7.37	7.37	7.62	6.75	4.94	4.13	7.62	0.25	3.3%
SC-59.06	10 min	4354	8.61	8.42	0.45	8.47	8.47	8.41	7.62	5.83	4.92	8.47	0.00	0.0%
SC-59.07	10 min	4364	14.62	14.24	0.94	14.27	14.13	14.39	12.82	10.04	8.50	14.39	0.12	0.8%
SC-59.08	15 min	4401	14.58	14.27	1.67	14.47	13.51	12.42	11.76	10.89	9.43	13.51	-0.96	-6.6%
SC-59.09	15 min	4401	17.54	17.51	1.36	17.75	16.11	15.18	13.68	13.41	11.97	16.11	-1.64	-9.2%
SC-59.10	25 min	4466	15.89	16.20	1.52	16.59	9.47	12.60	12.80	14.28	12.53	14.28	-2.31	-13.9%
SC-6.01	10 min	4363	0.80	0.81	0.07	0.83	0.87	0.91	0.81	0.48	0.39	0.91	0.08	9.3%
SC-60.01	10 min	4364	0.66	0.67	0.08	0.67	0.57	0.60	0.58	0.46	0.38	0.60	-0.07	-10.7%
SC-60.02	10 min	4364	2.66	2.61	0.25	2.63	2.49	2.62	2.31	1.79	1.49	2.62	-0.01	-0.3%
SC-61.01	10 min	4364	1.39	1.35	0.12	1.36	1.32	1.38	1.23	0.91	0.75	1.38	0.02	1.2%
SC-62.01	10 min	4368	0.83	0.85	0.07	0.85	0.88	0.92	0.82	0.51	0.41	0.92	0.07	7.9%
SC-63.01	10 min	4364	0.49	0.49	0.06	0.50	0.42	0.44	0.42	0.33	0.27	0.44	-0.06	-11.1%
SC-64.01	10 min	4363	0.62	0.64	0.05	0.65	0.67	0.71	0.62	0.38	0.31	0.71	0.06	8.6%
SC-64.02	10 min	4354	2.16	2.12	0.16	2.15	2.15	2.26	1.99	1.40	1.17	2.26	0.11	4.9%
SC-64.03	10 min	4354	4.03	3.99	0.28	4.05	4.05	4.24	3.75	2.62	2.18	4.24	0.19	4.7%
SC-64.04	10 min	4354	5.76	5.61	0.41	5.70	5.70	5.92	5.23	3.90	3.26	5.92	0.22	3.8%
SC-65.01	10 min	4363	0.49	0.50	0.04	0.50	0.52	0.55	0.48	0.30	0.25	0.55	0.05	9.2%
SC-66.01	10 min	4354	0.40	0.39	0.03	0.39	0.39	0.41	0.36	0.26	0.21	0.41	0.02	4.2%
SC-66.02	10 min	4364	0.98	0.99	0.11	1.00	0.86	0.85	0.87	0.70	0.58	0.87	-0.13	-13.1%
SC-67.01	10 min	4363	0.69	0.71	0.06	0.72	0.75	0.78	0.70	0.42	0.34	0.78	0.06	8.6%
SC-68.01	10 min	4363	0.95	0.97	0.08	0.98	1.02	1.07	0.95	0.58	0.48	1.07	0.09	8.8%
SC-68.02	10 min	4354	1.84	1.83	0.14	1.86	1.86	1.95	1.72	1.17	0.95	1.95	0.09	4.9%
SC-68.03	10 min	4365	3.31	3.35	0.25	3.37	3.47	3.63	3.22	2.08	1.70	3.63	0.26	7.6%
SC-69.01	10 min	4363	0.81	0.82	0.07	0.85	0.89	0.93	0.83	0.49	0.39	0.93	0.08	9.2%
SC-7.01	10 min	4361	1.10	1.10	0.07	1.12	1.12	1.18	1.04	0.71	0.59	1.18	0.05	4.9%
SC-70.01	10 min	4368	0.76	0.77	0.06	0.77	0.80	0.84	0.74	0.47	0.37	0.84	0.07	8.5%
SC-70.02	10 min	4354	1.22	1.22	0.09	1.24	1.24	1.30	1.15	0.77	0.63	1.30	0.06	4.6%
SC-71.01	10 min	4363	0.95	0.97	0.08	0.98	1.02	1.06	0.95	0.58	0.48	1.06	0.08	8.6%
SC-71.02	10 min	4354	1.85	1.83	0.13	1.86	1.86	1.95	1.72	1.18	0.97	1.95	0.09	4.8%
SC-72.01	10 min	4363	1.02	1.04	0.09	1.06	1.10	1.15	1.02	0.62	0.51	1.15	0.09	8.6%
SC-73.01	10 min	4363	0.84	0.85	0.07	0.85	0.89	0.93	0.83	0.51	0.43	0.93	0.08	9.5%
SC-74.01	10 min	4363	0.96	0.97	0.08	0.99	1.03	1.08	0.96	0.58	0.48	1.08	0.09	8.9%
SC-75.01	10 min	4364	0.60	0.58	0.06	0.58	0.56	0.58	0.52	0.39	0.32	0.58	0.00	0.6%
SC-75.02	10 min	4364	2.40	2.37	0.25	2.40	2.22	2.33	2.08	1.62	1.34	2.33	-0.07	-2.7%
SC-75.03	10 min	4364	3.45	3.37	0.28	3.41	3.26	3.42	3.03	2.32	1.94	3.42	0.01	0.2%
SC-75.04	10 min	4354	5.94	5.75	0.45	5.76	5.76	6.00	5.30	3.96	3.30	6.00	0.24	4.2%
SC-76.01	10 min	4364	0.81	0.82	0.10	0.83	0.70	0.69	0.69	0.56	0.46	0.70	-0.13	-16.0%
SC-77.01	10 min	4363	1.12	1.15	0.09	1.16	1.21	1.27	1.12	0.68	0.57	1.27	0.11	9.1%
SC-77.02	10 min	4363	1.70	1.73	0.14	1.75	1.83	1.91	1.70	1.03	0.85	1.91	0.16	9.1%
SC-77.03	10 min	4361	2.42	2.44	0.18	2.45	2.50	2.61	2.32	1.50	1.24	2.61	0.16	6.6%
SC-78.01	10 min	4363	1.06	1.08	0.09	1.10	1.15	1.20	1.06	0.64	0.53	1.20	0.10	8.8%

ARR2019 Results for 0.2%AEP Event

Subcatch ID	ARR2019 Discharge Statistics for All Durations and Temp. Patterns						Peak Discharge for the Reduced Set of Durations and Temporal Patterns (m ³ /s)					Max of the Reduced Set (m ³ /s)	Difference between the Reduced Set and Adopted	
	Critical Duration (mins)	Adopted Temp. Pattern	Discharge (m ³ /s)				10 min	20 min	20 min	45 min	120 min		m ³ /s	%
			Average	Median	Standard Dev	Adopted	4354	4396	4371	4533	4431			
SC-79.01	10 min	4365	1.14	1.15	0.09	1.16	1.19	1.25	1.11	0.76	0.61	1.25	0.09	7.3%
SC-79.02	10 min	4365	2.11	2.15	0.17	2.16	2.22	2.33	2.07	1.42	1.11	2.33	0.17	7.7%
SC-79.03	10 min	4361	4.71	4.76	0.34	4.79	4.85	5.01	4.47	3.08	2.51	5.01	0.22	4.6%
SC-8.01	10 min	4354	0.93	0.93	0.06	0.94	0.94	0.99	0.88	0.59	0.49	0.99	0.05	4.8%
SC-8.02	10 min	4354	2.26	2.20	0.16	2.24	2.24	2.35	2.07	1.47	1.23	2.35	0.11	4.7%
SC-8.03	10 min	4354	5.74	5.72	0.38	5.81	5.81	6.08	5.38	3.74	3.13	6.08	0.27	4.6%
SC-8.04	10 min	4361	10.12	10.19	0.71	10.30	10.38	10.87	9.62	6.57	5.49	10.87	0.57	5.5%
SC-8.05	10 min	4365	11.01	11.08	0.69	11.15	11.44	11.80	10.54	7.32	6.18	11.80	0.65	5.8%
SC-8.06	10 min	4363	11.40	11.45	0.61	11.55	11.94	12.15	10.93	7.72	6.55	12.15	0.60	5.2%
SC-80.01	10 min	4363	1.11	1.13	0.09	1.14	1.19	1.24	1.10	0.67	0.56	1.24	0.10	8.9%
SC-80.02	10 min	4354	2.25	2.24	0.16	2.27	2.27	2.38	2.10	1.42	1.17	2.38	0.11	4.7%
SC-81.01	10 min	4354	0.85	0.84	0.06	0.85	0.85	0.89	0.79	0.54	0.44	0.89	0.04	4.5%
SC-81.02	10 min	4354	2.50	2.47	0.18	2.50	2.50	2.62	2.33	1.58	1.30	2.62	0.12	4.6%
SC-82.01	10 min	4363	0.99	1.01	0.08	1.01	1.06	1.10	0.98	0.60	0.50	1.10	0.09	9.3%
SC-83.01	10 min	4363	0.63	0.64	0.05	0.64	0.67	0.70	0.62	0.38	0.32	0.70	0.06	9.3%
SC-84.01	10 min	4365	0.94	0.95	0.07	0.96	0.98	1.03	0.91	0.58	0.48	1.03	0.07	7.0%
SC-84.02	10 min	4365	2.31	2.35	0.18	2.37	2.44	2.55	2.26	1.45	1.20	2.55	0.18	7.6%
SC-84.03	10 min	4365	3.07	3.10	0.23	3.11	3.20	3.35	2.97	1.93	1.60	3.35	0.24	7.7%
SC-84.04	10 min	4361	3.65	3.68	0.28	3.69	3.79	3.97	3.51	2.30	1.90	3.97	0.28	7.5%
SC-84.05	10 min	4365	4.33	4.38	0.25	4.40	4.51	4.59	4.12	2.84	2.35	4.59	0.19	4.2%
SC-84.06	10 min	4363	4.77	4.81	0.20	4.82	4.94	4.89	4.46	3.21	2.66	4.94	0.12	2.5%
SC-85.01	10 min	4363	0.58	0.59	0.05	0.59	0.62	0.64	0.57	0.36	0.29	0.64	0.05	8.9%
SC-86.01	10 min	4363	0.88	0.90	0.07	0.91	0.95	0.99	0.88	0.53	0.44	0.99	0.08	9.1%
SC-86.02	10 min	4365	1.72	1.75	0.13	1.76	1.82	1.90	1.69	1.25	0.95	1.90	0.14	7.8%
SC-87.01	10 min	4363	1.29	1.31	0.11	1.33	1.39	1.45	1.29	0.77	0.65	1.45	0.12	9.2%
SC-87.02	10 min	4365	2.20	2.22	0.16	2.22	2.29	2.39	2.13	1.37	1.14	2.39	0.17	7.7%
SC-88.01	10 min	4363	0.58	0.59	0.05	0.60	0.62	0.65	0.58	0.36	0.30	0.65	0.05	8.2%
SC-88.02	10 min	4365	0.97	0.97	0.06	0.97	1.00	1.05	0.93	0.66	0.54	1.05	0.08	8.2%
SC-89.01	10 min	4363	0.63	0.65	0.05	0.66	0.69	0.72	0.63	0.38	0.32	0.72	0.06	8.6%
SC-89.02	10 min	4365	0.71	0.72	0.05	0.72	0.74	0.78	0.69	0.45	0.37	0.78	0.06	8.0%
SC-9.01	10 min	4363	0.83	0.85	0.07	0.86	0.89	0.93	0.83	0.51	0.42	0.93	0.07	8.6%
SC-90.01	10 min	4363	0.26	0.26	0.02	0.26	0.27	0.29	0.25	0.16	0.13	0.29	0.03	10.7%
SC-91.01	10 min	4363	0.74	0.75	0.06	0.78	0.81	0.85	0.75	0.45	0.36	0.85	0.07	8.7%
SC-91.02	10 min	4363	1.56	1.59	0.14	1.60	1.67	1.75	1.55	0.97	0.78	1.75	0.15	9.3%
SC-92.01	10 min	4354	0.76	0.77	0.05	0.78	0.78	0.81	0.72	0.48	0.40	0.81	0.03	4.1%
SC-92.02	10 min	4354	2.18	2.12	0.16	2.15	2.15	2.26	1.99	1.45	1.21	2.26	0.11	5.0%
SC-93.01	10 min	4363	0.82	0.83	0.06	0.83	0.87	0.91	0.81	0.50	0.42	0.91	0.08	9.3%
SC-94.01	10 min	4363	0.89	0.90	0.08	0.93	0.96	1.01	0.90	0.54	0.43	1.01	0.08	8.3%
SC-94.02	10 min	4368	2.10	2.15	0.17	2.15	2.23	2.33	2.07	1.31	1.07	2.33	0.18	8.5%
SC-95.01	10 min	4363	0.52	0.53	0.05	0.55	0.57	0.60	0.53	0.32	0.25	0.60	0.05	8.4%
SC-95.02	10 min	4363	1.27	1.30	0.11	1.32	1.37	1.44	1.28	0.78	0.63	1.44	0.12	8.7%
SC-96.01	10 min	4363	0.58	0.59	0.05	0.61	0.64	0.66	0.59	0.36	0.29	0.66	0.05	9.0%
SC-97.01	10 min	4363	0.40	0.40	0.03	0.42	0.43	0.45	0.40	0.24	0.19	0.45	0.03	8.0%
SC-97.02	10 min	4361	2.33	2.35	0.17	2.38	2.40	2.51	2.22	1.51	1.24	2.51	0.13	5.3%
SC-98.01	10 min	4363	0.69	0.71	0.06	0.72	0.75	0.78	0.69	0.42	0.35	0.78	0.06	8.4%
SC-99.01	10 min	4363	0.67	0.68	0.06	0.69	0.72	0.75	0.67	0.41	0.33	0.75	0.06	9.0%
SC-99.02	10 min	4354	1.87	1.86	0.14	1.89	1.89	1.98	1.75	1.19	0.96	1.98	0.09	4.7%
SC-99.03	10 min	4354	3.24	3.18	0.24	3.23	3.23	3.38	2.99	2.06	1.69	3.38	0.15	4.8%
SC-99.04	10 min	4361	8.56	8.61	0.57	8.69	8.78	9.10	8.09	5.58	4.66	9.10	0.41	4.7%
Dummy1	10 min	4364	43.92	43.76	0.98	43.86	43.06	39.43	37.19	32.34	28.28	43.06	-0.80	-1.8%
Dummy2	25 min	4394	68.95	68.00	4.48	68.45	57.54	65.77	72.55	63.39	53.78	72.55	4.10	6.0%
Dummy3	30 min	4497	132.32	131.38	8.83	131.96	107.52	120.25	117.85	121.90	112.24	121.90	-10.06	-7.6%
DummyOut	1.50 hour	4395	142.64	139.79	13.55	139.93	108.05	121.08	119.03	124.30	144.68	144.68	4.75	3.4%

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-1.01	15 min	3.43
SC-1.02	15 min	7.68
SC-1.03	15 min	9.07
SC-1.04	15 min	25.67
SC-1.05	15 min	28.11
SC-1.06	15 min	33.26
SC-1.07	15 min	34.12
SC-1.08	30 min	52.56
SC-1.09	45 min	58.08
SC-1.10	45 min	59.18
SC-1.11	45 min	79.43
SC-1.12	45 min	87.39
SC-1.13	45 min	94.2
SC-1.14	15 min	109.25
SC-1.15	15 min	119.44
SC-1.16	15 min	133.98
SC-1.17	15 min	135.93
SC-1.18	1.50 hour	111.8
SC-1.19	1.50 hour	197
SC-1.20	1.50 hour	199.3
SC-1.21	1.50 hour	201.12
SC-1.22	1.50 hour	203.88
SC-1.23	2 hours	212.56
SC-1.24	2 hours	231.4
SC-1.25	2 hours	232.97
SC-1.26	2 hours	238.04
SC-1.27	2 hours	239.39
SC-1.28	2.50 hours	263.65
SC-1.29	2.50 hours	271.94
SC-1.30	2.50 hours	274.32
SC-1.31	2.50 hours	275.98
SC-1.32	2.50 hours	278.74
SC-1.33	2.50 hours	285.41
SC-1.34	2.50 hours	287.13
SC-1.35	2.50 hours	288.85
SC-1.36	2.50 hours	298.86
SC-10.01	15 min	3.84
SC-100.01	15 min	3.83
SC-100.02	15 min	6.87
SC-101.01	15 min	4.35
SC-101.02	15 min	7.91
SC-102.01	15 min	3.23
SC-102.02	15 min	13.49
SC-103.01	15 min	2.19
SC-103.02	15 min	8.2
SC-104.01	15 min	2.01
SC-105.01	15 min	2.45
SC-105.02	15 min	6.12
SC-105.03	15 min	14.25
SC-105.04	15 min	19.38
SC-105.05	15 min	24.12
SC-105.06	15 min	27.27
SC-105.07	15 min	41.52
SC-105.08	15 min	48.14
SC-105.09	15 min	62.17
SC-106.01	15 min	1.75
SC-107.01	15 min	3.13
SC-108.01	15 min	2.15

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-109.01	15 min	2.87
SC-11.01	15 min	2.41
SC-110.01	15 min	2.63
SC-110.02	15 min	6.46
SC-110.03	15 min	7.15
SC-111.01	15 min	2.56
SC-112.01	15 min	4.47
SC-113.01	15 min	1.65
SC-113.02	15 min	5.72
SC-114.01	15 min	3.03
SC-114.02	15 min	4.62
SC-114.03	15 min	9.58
SC-115.01	15 min	2.55
SC-115.02	15 min	4.21
SC-116.01	15 min	2.53
SC-116.02	15 min	4.26
SC-117.01	15 min	1.5
SC-118.01	15 min	2.77
SC-119.01	15 min	4.45
SC-119.02	15 min	11.44
SC-12.01	15 min	2.43
SC-12.02	15 min	4.14
SC-12.03	15 min	8.3
SC-12.04	15 min	10.91
SC-120.01	15 min	2.05
SC-121.01	15 min	2.51
SC-122.01	15 min	3.81
SC-122.02	15 min	6.45
SC-122.03	15 min	8.77
SC-123.01	15 min	2.01
SC-123.02	15 min	6.06
SC-123.03	15 min	44.93
SC-123.04	15 min	45.78
SC-123.05	15 min	57.79
SC-123.06	15 min	59.87
SC-123.07	15 min	65.01
SC-124.01	15 min	3.25
SC-124.02	15 min	20.26
SC-125.01	15 min	4.51
SC-126.01	15 min	1.85
SC-126.02	15 min	5.83
SC-126.03	15 min	10.16
SC-127.01	15 min	4.24
SC-127.02	15 min	11.89
SC-128.01	15 min	4.27
SC-129.01	15 min	2.37
SC-13.01	15 min	2.5
SC-130.01	15 min	3.2
SC-131.01	15 min	1.25
SC-132.01	15 min	1.83
SC-133.01	15 min	1.29
SC-134.01	15 min	1.12
SC-134.02	15 min	4.25
SC-134.03	15 min	8.47
SC-134.04	15 min	11.98
SC-135.01	15 min	1.02
SC-135.02	15 min	5.85
SC-135.03	15 min	7.82

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-135.04	15 min	17.28
SC-135.05	15 min	19.64
SC-135.06	15 min	31.47
SC-136.01	15 min	2.84
SC-137.01	15 min	3.08
SC-138.01	15 min	3.36
SC-139.01	15 min	3.22
SC-139.02	15 min	4.02
SC-14.01	15 min	4.31
SC-14.02	15 min	7.02
SC-14.03	15 min	9.27
SC-140.01	15 min	2.29
SC-141.01	15 min	4.25
SC-142.01	15 min	7.37
SC-143.01	15 min	2.54
SC-143.02	15 min	20.25
SC-144.01	15 min	2.68
SC-144.02	15 min	4.05
SC-144.03	15 min	5.75
SC-144.04	15 min	10.14
SC-144.05	15 min	17.83
SC-145.01	15 min	3.36
SC-145.02	15 min	6.28
SC-146.01	15 min	8.76
SC-147.01	15 min	3.87
SC-147.02	15 min	5.4
SC-147.03	15 min	13.4
SC-148.01	15 min	2.8
SC-148.02	15 min	6.88
SC-149.01	15 min	2.16
SC-149.02	15 min	7.55
SC-15.01	15 min	4.47
SC-15.02	15 min	5.96
SC-15.03	15 min	9.66
SC-150.01	15 min	2.34
SC-150.02	15 min	4.77
SC-150.03	15 min	12.29
SC-150.04	15 min	16.2
SC-150.05	15 min	22.96
SC-150.06	15 min	43.35
SC-150.07	15 min	70.17
SC-150.08	30 min	79.47
SC-150.09	30 min	85.16
SC-150.10	30 min	102.59
SC-150.11	30 min	133.14
SC-150.12	30 min	163.37
SC-150.13	30 min	178.6
SC-150.14	30 min	238.08
SC-150.15	30 min	240.74
SC-150.16	45 min	250.39
SC-150.17	45 min	255.94
SC-151.01	15 min	3.1
SC-151.02	15 min	4.98
SC-152.01	15 min	2.83
SC-153.01	15 min	2.37
SC-153.02	15 min	5.63
SC-154.01	15 min	4.31
SC-154.02	15 min	15.19

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-155.01	15 min	1.75
SC-155.02	15 min	4.84
SC-156.01	15 min	1.75
SC-157.01	15 min	2.11
SC-158.01	15 min	2.99
SC-158.02	15 min	4.04
SC-158.03	15 min	8.91
SC-158.04	15 min	15.72
SC-159.01	15 min	2.39
SC-16.01	15 min	2.87
SC-160.01	15 min	2.06
SC-160.02	15 min	4.89
SC-161.01	15 min	2.47
SC-161.02	15 min	4.92
SC-162.01	15 min	3.35
SC-163.01	15 min	2.23
SC-163.02	15 min	4.15
SC-163.03	15 min	6.7
SC-163.04	15 min	9.13
SC-163.05	15 min	15.62
SC-164.01	15 min	3
SC-165.01	15 min	2.55
SC-165.02	15 min	6.63
SC-165.03	15 min	8.73
SC-165.04	15 min	19.79
SC-165.05	15 min	33.26
SC-166.01	15 min	2.34
SC-167.01	15 min	3.35
SC-167.02	15 min	8.89
SC-168.01	15 min	2.74
SC-169.01	15 min	2.59
SC-169.02	15 min	4.85
SC-169.03	15 min	10.79
SC-17.01	15 min	2.5
SC-17.02	15 min	4.56
SC-17.03	15 min	7.71
SC-17.04	15 min	19.01
SC-17.05	15 min	26.75
SC-17.06	15 min	30.99
SC-17.07	15 min	33.69
SC-170.01	15 min	2.3
SC-171.01	15 min	1.36
SC-172.01	15 min	3.13
SC-172.02	15 min	5.61
SC-173.01	30 min	4.34
SC-173.02	15 min	7.91
SC-173.03	30 min	8.23
SC-173.04	15 min	12.22
SC-173.05	15 min	14.36
SC-174.01	15 min	2
SC-175.01	15 min	3.58
SC-175.02	15 min	7.57
SC-175.03	15 min	12.27
SC-175.04	15 min	15.56
SC-175.05	15 min	18.17
SC-176.01	15 min	1.85
SC-177.01	15 min	2.02
SC-177.02	15 min	5.74

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-177.03	15 min	15.77
SC-177.04	15 min	20.93
SC-178.01	15 min	4.43
SC-178.02	15 min	7.02
SC-179.01	15 min	3.19
SC-18.01	15 min	2.86
SC-18.02	15 min	4.79
SC-180.01	15 min	3.08
SC-180.02	15 min	5.54
SC-180.03	15 min	7.85
SC-180.04	15 min	11.12
SC-181.01	15 min	1.68
SC-181.02	15 min	4.79
SC-181.03	15 min	7.72
SC-181.04	15 min	14.99
SC-181.05	15 min	16.77
SC-181.06	15 min	18.52
SC-181.07	15 min	41.09
SC-181.08	15 min	42.63
SC-182.01	15 min	2.19
SC-182.02	15 min	3.73
SC-182.03	15 min	6.63
SC-183.01	15 min	2.38
SC-183.02	15 min	5.08
SC-183.03	15 min	12.64
SC-183.04	15 min	14.94
SC-184.01	15 min	5.14
SC-185.01	15 min	2.95
SC-185.02	15 min	6.86
SC-186.01	15 min	1.1
SC-187.01	15 min	3.38
SC-187.02	15 min	6.91
SC-187.03	15 min	8.2
SC-187.04	15 min	10.53
SC-187.05	15 min	12.18
SC-188.01	15 min	3.15
SC-188.02	15 min	4.89
SC-189.01	15 min	3.55
SC-189.02	15 min	6.5
SC-19.01	15 min	1.9
SC-190.01	15 min	1.59
SC-191.01	15 min	3.23
SC-191.02	15 min	4.89
SC-191.03	15 min	8.98
SC-191.04	15 min	12.98
SC-191.05	15 min	18.07
SC-191.06	15 min	31.71
SC-191.07	15 min	39.11
SC-191.08	15 min	44.06
SC-192.01	15 min	9.42
SC-193.01	15 min	4.3
SC-194.01	15 min	4.96
SC-194.02	15 min	22.91
SC-194.03	15 min	24.79
SC-195.01	15 min	8.14
SC-196.01	15 min	14.64
SC-197.01	15 min	10.67
SC-198.01	15 min	11.86

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-2.01	15 min	2.28
SC-20.01	15 min	2.24
SC-200.01	15 min	2.95
SC-200.02	15 min	5.11
SC-200.03	15 min	9.84
SC-200.04	15 min	15.13
SC-200.05	15 min	24.16
SC-200.06	15 min	41.03
SC-200.07	15 min	49.25
SC-200.08	15 min	57.3
SC-200.09	15 min	83.94
SC-201.01	15 min	3.51
SC-202.01	15 min	3.52
SC-203.01	15 min	3.72
SC-204.01	15 min	5.52
SC-205.01	15 min	2.6
SC-206.01	15 min	19.09
SC-207.01	15 min	3.55
SC-207.02	15 min	7.13
SC-207.03	15 min	8.15
SC-207.04	15 min	23.38
SC-207.05	15 min	31.7
SC-207.06	15 min	34.34
SC-207.07	15 min	58.68
SC-207.08	15 min	88.51
SC-207.09	15 min	102.23
SC-207.10	15 min	105.91
SC-207.11	15 min	114
SC-207.12	15 min	162.68
SC-207.13	15 min	172.84
SC-207.14	15 min	177.74
SC-208.01	15 min	3.56
SC-208.02	15 min	5.3
SC-208.03	15 min	7.17
SC-208.04	15 min	11.77
SC-208.05	15 min	14.03
SC-209.01	15 min	2.44
SC-21.01	15 min	3.12
SC-210.01	15 min	5.19
SC-210.02	15 min	7.45
SC-211.01	15 min	2.68
SC-211.02	15 min	6.19
SC-211.03	15 min	9.54
SC-211.04	15 min	11.02
SC-212.01	45 min	1.27
SC-212.02	30 min	2.03
SC-213.01	15 min	2.1
SC-213.02	15 min	3.62
SC-214.01	15 min	2.64
SC-214.02	15 min	5.65
SC-215.01	15 min	2.16
SC-215.02	15 min	3.99
SC-216.01	15 min	1.88
SC-216.02	15 min	5.96
SC-216.03	15 min	9.7
SC-216.04	15 min	14.69
SC-217.01	15 min	1.35
SC-218.01	15 min	1.03

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-219.01	15 min	1.37
SC-22.01	15 min	1.77
SC-220.01	15 min	2.16
SC-221.01	15 min	2.01
SC-221.02	15 min	4.59
SC-221.03	15 min	5.71
SC-221.04	15 min	8.25
SC-221.05	15 min	10.81
SC-221.06	15 min	11.65
SC-222.01	15 min	2.18
SC-222.02	15 min	3.62
SC-222.03	15 min	8.99
SC-223.01	15 min	0.94
SC-224.01	15 min	3.52
SC-225.01	15 min	1.74
SC-226.01	15 min	1.25
SC-226.02	15 min	3.16
SC-226.03	15 min	6.65
SC-226.04	15 min	9.99
SC-226.05	15 min	40.32
SC-226.06	15 min	45.43
SC-226.07	15 min	50.11
SC-226.08	15 min	52.7
SC-227.01	15 min	0.67
SC-228.01	15 min	1.42
SC-229.01	15 min	1
SC-23.01	15 min	2.3
SC-23.02	15 min	7.29
SC-23.03	15 min	9.11
SC-230.01	15 min	1
SC-231.01	15 min	1.11
SC-232.01	15 min	2.86
SC-232.02	15 min	4.59
SC-232.03	15 min	10.67
SC-233.01	15 min	1.93
SC-233.02	15 min	3.34
SC-234.01	15 min	2.74
SC-234.02	15 min	5.61
SC-234.03	15 min	17.04
SC-235.01	15 min	0.97
SC-236.01	15 min	1.22
SC-236.02	15 min	1.91
SC-237.01	15 min	1.77
SC-237.02	15 min	4.49
SC-238.01	15 min	1.13
SC-238.02	15 min	2.76
SC-239.01	15 min	1.49
SC-24.01	15 min	2.01
SC-240.01	15 min	5.01
SC-240.02	15 min	7.03
SC-241.01	15 min	22.38
SC-242.01	15 min	2.05
SC-242.02	15 min	5.21
SC-242.03	15 min	7.85
SC-242.04	15 min	8.42
SC-242.05	15 min	19.06
SC-242.06	15 min	25.54
SC-242.07	15 min	28.12

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-242.08	15 min	56.7
SC-243.01	15 min	1.8
SC-243.02	15 min	6.92
SC-244.01	15 min	2.53
SC-245.01	15 min	1.34
SC-246.01	15 min	0.93
SC-246.02	15 min	2.83
SC-247.01	15 min	2.63
SC-247.02	15 min	7.49
SC-248.01	15 min	3.8
SC-249.01	15 min	0.98
SC-249.02	15 min	2.61
SC-249.03	15 min	5.15
SC-249.04	15 min	12.29
SC-249.05	15 min	36.78
SC-249.06	15 min	68.83
SC-25.01	15 min	6.05
SC-25.02	15 min	9.06
SC-25.03	15 min	10.01
SC-25.04	15 min	16.99
SC-250.01	15 min	0.62
SC-251.01	15 min	1.46
SC-252.01	15 min	1.73
SC-252.02	15 min	3.15
SC-253.01	15 min	2.41
SC-253.02	15 min	9.06
SC-253.03	15 min	11.14
SC-254.01	15 min	2.48
SC-255.01	15 min	2.47
SC-256.01	15 min	2.09
SC-257.01	15 min	1.18
SC-258.01	15 min	5.48
SC-258.02	15 min	10.2
SC-259.01	15 min	2.37
SC-259.02	15 min	4.93
SC-259.03	15 min	7.04
SC-259.04	15 min	12.73
SC-259.05	15 min	15.69
SC-259.06	15 min	20.33
SC-259.07	15 min	27.07
SC-259.08	15 min	31.12
SC-259.09	15 min	89.39
SC-259.10	15 min	91.28
SC-26.01	15 min	1.91
SC-260.01	15 min	1.48
SC-261.01	15 min	2
SC-262.01	15 min	2.15
SC-262.02	15 min	4.03
SC-263.01	15 min	2.3
SC-264.01	15 min	1.25
SC-265.01	15 min	1.68
SC-265.02	15 min	5.18
SC-265.03	15 min	9.45
SC-265.04	15 min	42.58
SC-266.01	15 min	2.39
SC-266.02	15 min	4.54
SC-266.03	15 min	5.33
SC-266.04	15 min	21.92

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-266.05	15 min	26.05
SC-267.01	15 min	2.04
SC-268.01	15 min	3.47
SC-268.02	15 min	9.8
SC-269.01	15 min	1.85
SC-27.01	15 min	2.23
SC-270.01	15 min	2.14
SC-271.01	15 min	1.31
SC-272.01	15 min	3.13
SC-272.02	15 min	6.23
SC-272.03	15 min	10.11
SC-273.01	15 min	2.81
SC-274.01	30 min	1.63
SC-274.02	15 min	5.21
SC-274.03	15 min	12.26
SC-274.04	15 min	15.97
SC-274.05	15 min	21.3
SC-275.01	15 min	2.23
SC-276.01	15 min	1.6
SC-277.01	15 min	2.16
SC-278.01	15 min	1.24
SC-278.02	15 min	20.1
SC-279.01	15 min	2.61
SC-279.02	15 min	18.79
SC-28.01	15 min	2.35
SC-28.02	15 min	4.81
SC-28.03	15 min	6.57
SC-28.04	15 min	12.87
SC-280.01	15 min	2.29
SC-29.01	15 min	1.87
SC-29.02	15 min	5.43
SC-3.01	15 min	2.39
SC-3.02	15 min	8.02
SC-30.01	15 min	3.3
SC-30.02	15 min	6.39
SC-30.03	15 min	8.9
SC-30.04	15 min	11.31
SC-31.01	15 min	2.51
SC-31.02	15 min	5.23
SC-32.01	15 min	2.72
SC-32.02	15 min	3.96
SC-33.01	15 min	2.79
SC-33.02	15 min	6.7
SC-34.01	15 min	2.36
SC-34.02	15 min	4.89
SC-34.03	15 min	5.84
SC-35.01	15 min	1.93
SC-35.02	15 min	5.65
SC-35.03	15 min	9.03
SC-35.04	15 min	9.72
SC-36.01	15 min	4.28
SC-36.02	15 min	7.72
SC-37.01	15 min	1.66
SC-37.02	15 min	4.84
SC-38.01	15 min	1.98
SC-39.01	15 min	1.12
SC-4.01	15 min	2.93
SC-40.01	15 min	2.52

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-41.01	15 min	1.62
SC-42.01	15 min	5.59
SC-43.01	15 min	1.17
SC-44.01	15 min	3.49
SC-44.02	15 min	5.85
SC-44.03	15 min	8.08
SC-44.04	15 min	12.49
SC-44.05	15 min	22.52
SC-44.06	15 min	24.66
SC-44.07	15 min	29.38
SC-44.08	15 min	37.41
SC-44.09	15 min	41.4
SC-44.10	30 min	37.13
SC-44.11	30 min	95.92
SC-44.12	45 min	78.96
SC-44.13	45 min	78.36
SC-44.14	1.50 hour	87.86
SC-44.15	1.50 hour	98.43
SC-44.16	1.50 hour	98.88
SC-44.17	1.50 hour	110.6
SC-44.18	1.50 hour	111.84
SC-44.19	1.50 hour	114.23
SC-44.20	1.50 hour	98.45
SC-45.01	15 min	2.75
SC-46.01	15 min	2.13
SC-46.02	15 min	3.84
SC-46.03	15 min	5.75
SC-46.04	15 min	6.52
SC-47.01	15 min	3.43
SC-48.01	15 min	2.58
SC-48.02	15 min	4.34
SC-49.01	15 min	2.94
SC-5.01	15 min	1.95
SC-50.01	15 min	1.15
SC-51.01	15 min	1.07
SC-52.01	15 min	1.07
SC-53.01	15 min	2.51
SC-53.02	15 min	5.53
SC-53.03	15 min	6.72
SC-54.01	15 min	2.04
SC-54.02	15 min	4.23
SC-55.01	15 min	3.16
SC-56.01	15 min	1.62
SC-57.01	15 min	1.26
SC-58.01	15 min	2.06
SC-59.01	15 min	2.83
SC-59.02	15 min	5.65
SC-59.03	15 min	8.23
SC-59.04	15 min	10.57
SC-59.05	15 min	24.14
SC-59.06	15 min	28.64
SC-59.07	15 min	50.07
SC-59.08	15 min	54.23
SC-59.09	15 min	66.89
SC-59.10	15 min	67.28
SC-6.01	15 min	2.29
SC-60.01	15 min	2.28
SC-60.02	15 min	8.7

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-61.01	15 min	4.43
SC-62.01	15 min	2.49
SC-63.01	15 min	1.64
SC-64.01	15 min	2
SC-64.02	15 min	6.99
SC-64.03	15 min	13.22
SC-64.04	15 min	19.48
SC-65.01	15 min	1.46
SC-66.01	15 min	1.29
SC-66.02	15 min	3.45
SC-67.01	15 min	2.27
SC-68.01	15 min	3.18
SC-68.02	15 min	6.47
SC-68.03	15 min	11.32
SC-69.01	15 min	2.64
SC-7.01	15 min	3.75
SC-70.01	15 min	2.28
SC-70.02	15 min	3.79
SC-71.01	15 min	3.17
SC-71.02	15 min	6.29
SC-72.01	15 min	3
SC-73.01	15 min	2.62
SC-74.01	15 min	2.8
SC-75.01	15 min	2.18
SC-75.02	15 min	8.99
SC-75.03	15 min	12.93
SC-75.04	15 min	21.38
SC-76.01	15 min	3.13
SC-77.01	15 min	3.43
SC-77.02	15 min	5.32
SC-77.03	15 min	7.92
SC-78.01	15 min	3.12
SC-79.01	15 min	3.54
SC-79.02	15 min	6.55
SC-79.03	15 min	14.84
SC-8.01	15 min	2.88
SC-8.02	15 min	7.54
SC-8.03	15 min	20.29
SC-8.04	15 min	35.11
SC-8.05	15 min	39.18
SC-8.06	15 min	41.34
SC-80.01	15 min	3.27
SC-80.02	15 min	6.95
SC-81.01	15 min	3.01
SC-81.02	15 min	8.77
SC-82.01	15 min	3.32
SC-83.01	15 min	1.85
SC-84.01	15 min	3.21
SC-84.02	15 min	7.97
SC-84.03	15 min	10.57
SC-84.04	15 min	12.5
SC-84.05	15 min	15.37
SC-84.06	15 min	17.53
SC-85.01	15 min	1.97
SC-86.01	15 min	2.58
SC-86.02	15 min	5.21
SC-87.01	15 min	4.26
SC-87.02	15 min	7.54

ARR2019 Results for PMF		
Subcatch ID	Critical Duration (mins)	Peak Discharge
SC-88.01	15 min	1.95
SC-88.02	15 min	3.48
SC-89.01	15 min	2.11
SC-89.02	15 min	2.49
SC-9.01	15 min	2.73
SC-90.01	15 min	0.83
SC-91.01	15 min	2.38
SC-91.02	15 min	5.21
SC-92.01	15 min	2.45
SC-92.02	15 min	7.12
SC-93.01	15 min	2.75
SC-94.01	15 min	2.9
SC-94.02	15 min	7.12
SC-95.01	15 min	1.49
SC-95.02	15 min	3.76
SC-96.01	15 min	1.69
SC-97.01	15 min	1.26
SC-97.02	15 min	7.95
SC-98.01	15 min	2.32
SC-99.01	15 min	1.98
SC-99.02	15 min	5.82
SC-99.03	15 min	10.1
SC-99.04	15 min	27.37
Dummy1	15 min	142.9
Dummy2	30 min	246.18
Dummy3	45 min	520.92
DummyOut	1.50 hour	647.48

Appendix G

XP-RAFTS Model Outputs for
Future Catchment and Climate Change Conditions



Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.93	10 min	0.96
SC-1.02	10 min	2.00	10 min	2.06
SC-1.03	10 min	2.38	10 min	2.43
SC-1.04	10 min	6.27	10 min	6.48
SC-1.05	10 min	6.82	10 min	6.89
SC-1.06	10 min	7.79	10 min	7.97
SC-1.07	10 min	7.91	10 min	8.05
SC-1.08	45 min	8.71	45 min	8.74
SC-1.09	45 min	9.35	45 min	9.37
SC-1.10	45 min	9.36	45 min	9.38
SC-1.11	10 min	13.59	10 min	14.05
SC-1.12	10 min	16.99	10 min	17.48
SC-1.13	10 min	19.43	10 min	19.80
SC-1.14	10 min	23.13	10 min	23.53
SC-1.15	10 min	25.02	10 min	25.57
SC-1.16	15 min	28.64	15 min	29.06
SC-1.17	15 min	28.95	15 min	29.39
SC-1.18	30 min	18.10	30 min	18.19
SC-1.19	1 hour	22.75	1 hour	22.83
SC-1.20	1 hour	20.73	1 hour	20.81
SC-1.21	1 hour	20.74	1 hour	20.83
SC-1.22	1.50 hour	20.92	1.50 hour	20.98
SC-1.23	1.50 hour	23.45	1.50 hour	23.50
SC-1.24	20 min	31.77	20 min	31.77
SC-1.25	25 min	32.54	25 min	32.45
SC-1.26	25 min	35.37	25 min	35.34
SC-1.27	25 min	35.95	25 min	36.20
SC-1.28	15 min	47.23	15 min	47.60
SC-1.29	25 min	49.56	20 min	50.52
SC-1.30	25 min	50.66	25 min	51.16
SC-1.31	25 min	51.58	25 min	52.02
SC-1.32	25 min	52.64	25 min	53.08
SC-1.33	30 min	54.45	30 min	54.49
SC-1.34	30 min	54.52	30 min	54.54
SC-1.35	30 min	54.65	30 min	54.91
SC-1.36	30 min	57.49	30 min	57.79
SC-10.01	10 min	0.97	10 min	1.04
SC-100.01	10 min	1.14	10 min	1.17
SC-100.02	10 min	1.95	10 min	1.99
SC-101.01	10 min	1.18	10 min	1.22
SC-101.02	10 min	2.05	10 min	2.15
SC-102.01	10 min	0.94	10 min	0.99

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-102.02	10 min	3.50	10 min	3.63
SC-103.01	10 min	0.63	10 min	0.66
SC-103.02	10 min	2.17	10 min	2.22
SC-104.01	10 min	0.56	10 min	0.59
SC-105.01	10 min	0.60	10 min	0.64
SC-105.02	10 min	1.41	10 min	1.47
SC-105.03	10 min	3.29	10 min	3.41
SC-105.04	10 min	4.44	10 min	4.62
SC-105.05	10 min	5.26	10 min	5.45
SC-105.06	10 min	5.54	10 min	5.73
SC-105.07	15 min	8.11	10 min	8.50
SC-105.08	15 min	9.32	10 min	9.60
SC-105.09	10 min	12.28	10 min	12.58
SC-106.01	10 min	0.44	10 min	0.46
SC-107.01	10 min	0.76	10 min	0.82
SC-108.01	10 min	0.56	10 min	0.58
SC-109.01	10 min	0.73	10 min	0.77
SC-11.01	10 min	0.59	10 min	0.63
SC-110.01	10 min	0.67	10 min	0.71
SC-110.02	10 min	1.50	10 min	1.56
SC-110.03	10 min	1.64	10 min	1.69
SC-111.01	20 min	0.45	20 min	0.44
SC-112.01	10 min	1.13	10 min	1.19
SC-113.01	10 min	0.41	10 min	0.41
SC-113.02	10 min	1.30	10 min	1.33
SC-114.01	10 min	0.71	10 min	0.75
SC-114.02	10 min	1.14	10 min	1.15
SC-114.03	10 min	2.34	10 min	2.41
SC-115.01	10 min	0.65	10 min	0.68
SC-115.02	10 min	1.04	10 min	1.06
SC-116.01	10 min	0.64	10 min	0.67
SC-116.02	10 min	1.03	10 min	1.07
SC-117.01	10 min	0.38	10 min	0.39
SC-118.01	10 min	0.83	10 min	0.85
SC-119.01	10 min	1.26	10 min	1.31
SC-119.02	10 min	3.14	10 min	3.27
SC-12.01	10 min	0.69	10 min	0.72
SC-12.02	10 min	1.20	10 min	1.23
SC-12.03	10 min	2.19	10 min	2.23
SC-12.04	10 min	2.79	10 min	2.86
SC-120.01	10 min	0.57	10 min	0.59
SC-121.01	10 min	0.71	10 min	0.75

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-122.01	10 min	1.16	10 min	1.17
SC-122.02	10 min	1.79	10 min	1.82
SC-122.03	10 min	2.41	10 min	2.43
SC-123.01	10 min	0.58	10 min	0.58
SC-123.02	10 min	1.62	10 min	1.64
SC-123.03	10 min	10.91	10 min	11.12
SC-123.04	10 min	11.19	10 min	11.42
SC-123.05	10 min	14.12	10 min	14.31
SC-123.06	10 min	14.54	10 min	14.69
SC-123.07	10 min	15.60	10 min	15.82
SC-124.01	20 min	0.70	20 min	0.69
SC-124.02	20 min	4.51	20 min	4.52
SC-125.01	20 min	0.97	20 min	0.97
SC-126.01	10 min	0.54	10 min	0.55
SC-126.02	20 min	1.30	20 min	1.30
SC-126.03	20 min	2.40	20 min	2.41
SC-127.01	10 min	1.28	10 min	1.29
SC-127.02	10 min	3.43	10 min	3.45
SC-128.01	10 min	1.25	10 min	1.27
SC-129.01	10 min	0.61	10 min	0.64
SC-13.01	10 min	0.63	10 min	0.67
SC-130.01	10 min	0.94	10 min	0.95
SC-131.01	10 min	0.37	10 min	0.37
SC-132.01	10 min	0.52	10 min	0.53
SC-133.01	10 min	0.38	10 min	0.38
SC-134.01	10 min	0.32	10 min	0.31
SC-134.02	10 min	1.02	10 min	1.01
SC-134.03	10 min	2.07	10 min	2.08
SC-134.04	10 min	2.93	15 min	2.67
SC-135.01	10 min	0.25	10 min	0.26
SC-135.02	10 min	1.39	10 min	1.44
SC-135.03	10 min	1.83	10 min	1.90
SC-135.04	10 min	4.06	10 min	4.17
SC-135.05	10 min	4.60	10 min	4.74
SC-135.06	10 min	7.50	10 min	7.71
SC-136.01	10 min	0.76	10 min	0.81
SC-137.01	10 min	0.77	10 min	0.81
SC-138.01	10 min	0.92	10 min	0.96
SC-139.01	10 min	0.90	10 min	0.96
SC-139.02	10 min	1.09	10 min	1.15
SC-14.01	10 min	1.11	10 min	1.16
SC-14.02	10 min	1.69	10 min	1.74

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-14.03	10 min	2.21	10 min	2.28
SC-140.01	10 min	0.64	10 min	0.67
SC-141.01	10 min	1.04	10 min	1.04
SC-142.01	20 min	1.55	20 min	1.55
SC-143.01	20 min	0.61	20 min	0.59
SC-143.02	10 min	4.94	10 min	4.96
SC-144.01	10 min	0.73	10 min	0.73
SC-144.02	10 min	1.04	10 min	1.03
SC-144.03	10 min	1.38	10 min	1.38
SC-144.04	10 min	2.44	10 min	2.39
SC-144.05	10 min	4.60	10 min	4.57
SC-145.01	10 min	0.94	10 min	0.95
SC-145.02	10 min	1.74	10 min	1.74
SC-146.01	15 min	1.75	20 min	1.73
SC-147.01	10 min	0.92	10 min	0.91
SC-147.02	10 min	1.25	10 min	1.25
SC-147.03	10 min	3.19	10 min	3.19
SC-148.01	10 min	0.78	10 min	0.79
SC-148.02	10 min	1.67	10 min	1.67
SC-149.01	10 min	0.56	10 min	0.55
SC-149.02	10 min	1.83	10 min	1.82
SC-15.01	10 min	1.13	10 min	1.18
SC-15.02	10 min	1.48	10 min	1.55
SC-15.03	10 min	2.33	10 min	2.41
SC-150.01	10 min	0.68	10 min	0.72
SC-150.02	10 min	1.31	10 min	1.36
SC-150.03	10 min	3.32	10 min	3.42
SC-150.04	10 min	4.30	10 min	4.47
SC-150.05	10 min	5.94	10 min	6.16
SC-150.06	10 min	11.00	10 min	11.39
SC-150.07	10 min	17.06	10 min	17.76
SC-150.08	2 hours	9.68	2 hours	9.68
SC-150.09	2 hours	10.19	2 hours	10.22
SC-150.10	2 hours	12.14	2 hours	12.26
SC-150.11	10 min	18.60	10 min	19.09
SC-150.12	10 min	29.36	10 min	29.94
SC-150.13	15 min	33.27	15 min	33.94
SC-150.14	15 min	49.84	15 min	50.06
SC-150.15	15 min	50.19	15 min	50.78
SC-150.16	15 min	52.64	15 min	53.35
SC-150.17	15 min	53.46	15 min	54.30
SC-151.01	10 min	0.91	10 min	0.95

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-151.02	10 min	1.38	10 min	1.44
SC-152.01	10 min	0.80	10 min	0.84
SC-153.01	10 min	0.65	10 min	0.66
SC-153.02	10 min	1.52	10 min	1.58
SC-154.01	10 min	1.19	10 min	1.23
SC-154.02	10 min	3.98	10 min	4.11
SC-155.01	10 min	0.43	10 min	0.45
SC-155.02	10 min	1.25	10 min	1.28
SC-156.01	10 min	0.49	10 min	0.50
SC-157.01	10 min	0.57	10 min	0.59
SC-158.01	10 min	0.77	10 min	0.81
SC-158.02	10 min	0.98	10 min	1.03
SC-158.03	10 min	2.13	10 min	2.19
SC-158.04	10 min	3.96	10 min	4.12
SC-159.01	10 min	0.61	10 min	0.64
SC-16.01	10 min	0.73	10 min	0.77
SC-160.01	10 min	0.59	10 min	0.63
SC-160.02	10 min	1.32	10 min	1.37
SC-161.01	10 min	0.72	10 min	0.76
SC-161.02	10 min	1.36	10 min	1.42
SC-162.01	10 min	0.84	10 min	0.88
SC-163.01	10 min	0.47	10 min	0.47
SC-163.02	10 min	0.90	10 min	0.91
SC-163.03	10 min	1.48	10 min	1.54
SC-163.04	10 min	2.11	10 min	2.15
SC-163.05	10 min	3.65	10 min	3.76
SC-164.01	10 min	0.72	10 min	0.75
SC-165.01	10 min	0.62	10 min	0.64
SC-165.02	10 min	1.60	10 min	1.67
SC-165.03	10 min	2.09	10 min	2.16
SC-165.04	10 min	4.46	10 min	4.61
SC-165.05	10 min	7.50	10 min	7.73
SC-166.01	10 min	0.56	10 min	0.58
SC-167.01	10 min	0.85	10 min	0.90
SC-167.02	10 min	2.15	10 min	2.22
SC-168.01	10 min	0.70	10 min	0.74
SC-169.01	10 min	0.63	10 min	0.64
SC-169.02	10 min	1.16	10 min	1.20
SC-169.03	10 min	2.62	10 min	2.68
SC-17.01	10 min	0.64	10 min	0.68
SC-17.02	10 min	1.10	10 min	1.13
SC-17.03	10 min	1.84	10 min	1.92

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-17.04	10 min	4.38	10 min	4.56
SC-17.05	10 min	6.01	10 min	6.22
SC-17.06	10 min	6.75	10 min	6.98
SC-17.07	10 min	7.26	10 min	7.45
SC-170.01	10 min	0.57	10 min	0.60
SC-171.01	10 min	0.41	10 min	0.40
SC-172.01	10 min	0.82	10 min	0.84
SC-172.02	10 min	1.38	10 min	1.42
SC-173.01	20 min	0.89	20 min	0.87
SC-173.02	20 min	1.79	20 min	1.77
SC-173.03	20 min	1.85	20 min	1.83
SC-173.04	10 min	3.07	10 min	3.12
SC-173.05	10 min	3.58	10 min	3.65
SC-174.01	10 min	0.53	10 min	0.53
SC-175.01	10 min	0.92	10 min	0.97
SC-175.02	10 min	1.86	10 min	1.92
SC-175.03	10 min	2.99	10 min	3.12
SC-175.04	10 min	3.67	10 min	3.79
SC-175.05	10 min	4.12	10 min	4.26
SC-176.01	10 min	0.38	10 min	0.38
SC-177.01	10 min	0.51	10 min	0.53
SC-177.02	10 min	1.34	10 min	1.39
SC-177.03	10 min	3.68	10 min	3.75
SC-177.04	10 min	5.02	10 min	5.15
SC-178.01	10 min	1.12	10 min	1.17
SC-178.02	10 min	1.66	10 min	1.73
SC-179.01	10 min	0.91	10 min	0.96
SC-18.01	10 min	0.71	10 min	0.75
SC-18.02	10 min	1.11	10 min	1.14
SC-180.01	10 min	0.88	10 min	0.93
SC-180.02	10 min	1.49	10 min	1.54
SC-180.03	10 min	2.09	10 min	2.16
SC-180.04	10 min	3.02	10 min	3.13
SC-181.01	20 min	0.38	20 min	0.39
SC-181.02	10 min	1.25	10 min	1.27
SC-181.03	10 min	2.04	10 min	2.11
SC-181.04	10 min	3.79	10 min	3.82
SC-181.05	10 min	4.08	10 min	4.19
SC-181.06	10 min	4.55	10 min	4.65
SC-181.07	10 min	10.03	10 min	10.19
SC-181.08	10 min	10.40	10 min	10.56
SC-182.01	10 min	0.62	10 min	0.65

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-182.02	10 min	1.00	10 min	1.03
SC-182.03	10 min	1.56	10 min	1.63
SC-183.01	10 min	0.59	10 min	0.60
SC-183.02	10 min	1.34	10 min	1.35
SC-183.03	10 min	3.32	10 min	3.33
SC-183.04	10 min	3.79	10 min	3.83
SC-184.01	10 min	1.43	10 min	1.42
SC-185.01	10 min	0.86	10 min	0.90
SC-185.02	10 min	1.89	10 min	1.94
SC-186.01	10 min	0.30	10 min	0.32
SC-187.01	10 min	0.87	10 min	0.91
SC-187.02	10 min	1.67	10 min	1.74
SC-187.03	10 min	1.97	10 min	2.06
SC-187.04	10 min	2.46	10 min	2.53
SC-187.05	10 min	2.93	10 min	3.00
SC-188.01	10 min	0.91	10 min	0.96
SC-188.02	10 min	1.33	10 min	1.39
SC-189.01	10 min	1.03	10 min	1.09
SC-189.02	10 min	1.83	10 min	1.91
SC-190.01	10 min	0.41	10 min	0.43
SC-190.01	10 min	0.45	10 min	0.46
SC-191.01	10 min	0.83	10 min	0.87
SC-191.02	10 min	1.19	10 min	1.24
SC-191.03	10 min	2.18	10 min	2.26
SC-191.04	10 min	3.18	10 min	3.31
SC-191.05	10 min	4.45	10 min	4.56
SC-191.06	10 min	7.65	10 min	7.86
SC-191.07	10 min	9.11	10 min	9.48
SC-191.08	10 min	9.97	10 min	10.29
SC-192.01	10 min	2.59	10 min	2.70
SC-193.01	10 min	1.18	10 min	1.24
SC-194.01	10 min	1.18	10 min	1.18
SC-194.02	20 min	4.77	20 min	4.71
SC-194.03	20 min	4.95	20 min	4.89
SC-195.01	20 min	1.67	20 min	1.64
SC-196.01	10 min	3.86	10 min	3.97
SC-197.01	10 min	2.47	10 min	2.50
SC-198.01	20 min	2.40	20 min	2.39
SC-2.01	10 min	0.53	10 min	0.55
SC-20.01	10 min	0.56	10 min	0.59
SC-200.01	10 min	0.80	10 min	0.81
SC-200.02	10 min	1.41	10 min	1.43

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-200.03	10 min	2.63	10 min	2.63
SC-200.04	10 min	3.84	10 min	3.86
SC-200.05	10 min	6.29	10 min	6.30
SC-200.06	10 min	9.51	10 min	9.46
SC-200.07	10 min	11.17	10 min	11.10
SC-200.08	10 min	12.58	10 min	12.51
SC-200.09	15 min	18.58	15 min	18.48
SC-201.01	10 min	1.02	10 min	1.04
SC-202.01	10 min	1.05	10 min	1.06
SC-203.01	10 min	1.04	10 min	1.04
SC-204.01	10 min	1.36	10 min	1.36
SC-205.01	20 min	0.55	20 min	0.55
SC-206.01	10 min	4.38	10 min	4.31
SC-207.01	10 min	0.98	10 min	1.00
SC-207.02	10 min	1.89	10 min	1.92
SC-207.03	10 min	2.11	10 min	2.12
SC-207.04	10 min	5.77	10 min	5.87
SC-207.05	10 min	7.61	10 min	7.75
SC-207.06	10 min	8.34	10 min	8.53
SC-207.07	10 min	13.97	10 min	14.10
SC-207.08	10 min	20.74	10 min	20.95
SC-207.09	10 min	23.77	10 min	24.08
SC-207.10	15 min	24.60	10 min	24.62
SC-207.11	15 min	26.60	15 min	26.91
SC-207.12	15 min	38.54	15 min	38.85
SC-207.13	15 min	40.73	15 min	40.99
SC-207.14	15 min	41.81	15 min	42.34
SC-208.01	10 min	1.08	10 min	1.09
SC-208.02	10 min	1.51	10 min	1.53
SC-208.03	10 min	2.00	10 min	2.05
SC-208.04	10 min	3.12	10 min	3.20
SC-208.05	10 min	3.57	10 min	3.65
SC-209.01	10 min	0.66	10 min	0.69
SC-21.01	10 min	0.80	10 min	0.85
SC-210.01	10 min	1.49	10 min	1.54
SC-210.02	10 min	2.04	10 min	2.09
SC-211.01	20 min	0.56	20 min	0.55
SC-211.02	25 min	1.25	25 min	1.22
SC-211.03	20 min	1.92	20 min	1.87
SC-211.04	20 min	2.29	20 min	2.23
SC-212.01	1 hour	0.21	1 hour	0.20
SC-212.02	20 min	0.43	20 min	0.41

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-213.01	10 min	0.62	10 min	0.64
SC-213.02	10 min	1.02	10 min	1.05
SC-214.01	10 min	0.76	10 min	0.78
SC-214.02	10 min	1.64	10 min	1.68
SC-215.01	10 min	0.60	10 min	0.63
SC-215.02	10 min	1.08	10 min	1.12
SC-216.01	10 min	0.58	10 min	0.58
SC-216.02	10 min	1.73	10 min	1.73
SC-216.03	10 min	2.69	10 min	2.71
SC-216.04	10 min	3.73	10 min	3.72
SC-217.01	10 min	0.41	10 min	0.40
SC-218.01	10 min	0.31	10 min	0.31
SC-219.01	10 min	0.41	10 min	0.41
SC-22.01	10 min	0.45	10 min	0.47
SC-220.01	10 min	0.63	10 min	0.65
SC-221.01	10 min	0.58	10 min	0.61
SC-221.02	10 min	1.23	10 min	1.25
SC-221.03	10 min	1.51	10 min	1.55
SC-221.04	10 min	2.21	10 min	2.27
SC-221.05	10 min	2.86	10 min	2.91
SC-221.06	10 min	2.99	10 min	3.06
SC-222.01	10 min	0.63	10 min	0.66
SC-222.02	10 min	0.98	10 min	1.02
SC-222.03	10 min	2.17	10 min	2.20
SC-223.01	10 min	0.27	10 min	0.28
SC-224.01	15 min	0.71	15 min	0.70
SC-225.01	10 min	0.50	10 min	0.51
SC-226.01	10 min	0.37	10 min	0.37
SC-226.02	10 min	0.85	10 min	0.85
SC-226.03	10 min	1.75	10 min	1.79
SC-226.04	10 min	2.63	10 min	2.69
SC-226.05	10 min	10.48	10 min	10.94
SC-226.06	10 min	11.44	10 min	12.01
SC-226.07	10 min	12.46	10 min	13.10
SC-226.08	10 min	13.12	10 min	13.75
SC-227.01	10 min	0.19	10 min	0.20
SC-228.01	10 min	0.41	10 min	0.42
SC-229.01	10 min	0.29	10 min	0.29
SC-23.01	10 min	0.59	10 min	0.62
SC-23.02	10 min	1.71	10 min	1.74
SC-23.03	10 min	2.09	10 min	2.15
SC-230.01	10 min	0.28	10 min	0.29

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-231.01	10 min	0.31	10 min	0.31
SC-232.01	10 min	0.77	10 min	0.80
SC-232.02	10 min	1.22	10 min	1.27
SC-232.03	10 min	2.85	10 min	2.90
SC-233.01	10 min	0.56	10 min	0.59
SC-233.02	10 min	0.90	10 min	0.93
SC-234.01	10 min	0.80	10 min	0.85
SC-234.02	10 min	1.53	10 min	1.55
SC-234.03	10 min	4.50	10 min	4.82
SC-235.01	10 min	0.30	10 min	0.29
SC-236.01	10 min	0.38	10 min	0.38
SC-236.02	10 min	0.58	10 min	0.58
SC-237.01	10 min	0.51	10 min	0.53
SC-237.02	10 min	1.04	10 min	1.33
SC-238.01	10 min	0.33	10 min	0.33
SC-238.02	10 min	0.75	10 min	0.75
SC-239.01	10 min	0.42	10 min	0.44
SC-24.01	10 min	0.51	10 min	0.53
SC-240.01	20 min	1.10	20 min	1.08
SC-240.02	20 min	1.56	20 min	1.54
SC-241.01	15 min	4.53	15 min	4.51
SC-242.01	10 min	0.59	10 min	0.61
SC-242.02	10 min	1.50	10 min	1.56
SC-242.03	10 min	2.22	10 min	2.31
SC-242.04	10 min	2.36	10 min	2.45
SC-242.05	10 min	5.23	10 min	5.40
SC-242.06	10 min	6.67	10 min	6.89
SC-242.07	10 min	7.14	10 min	7.33
SC-242.08	10 min	14.04	10 min	14.10
SC-243.01	10 min	0.56	10 min	0.57
SC-243.02	10 min	2.04	10 min	2.07
SC-244.01	10 min	0.79	10 min	0.81
SC-245.01	10 min	0.42	10 min	0.42
SC-246.01	10 min	0.28	10 min	0.28
SC-246.02	10 min	0.72	10 min	0.71
SC-247.01	10 min	0.75	10 min	0.76
SC-247.02	10 min	1.89	10 min	1.90
SC-248.01	10 min	0.94	10 min	0.93
SC-249.01	20 min	0.22	20 min	0.21
SC-249.02	20 min	0.63	20 min	0.65
SC-249.03	10 min	1.29	10 min	1.33
SC-249.04	10 min	3.25	10 min	3.37

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-249.05	10 min	9.49	10 min	9.84
SC-249.06	10 min	16.08	10 min	16.17
SC-25.01	10 min	1.56	10 min	1.62
SC-25.02	10 min	2.19	10 min	2.25
SC-25.03	10 min	2.38	10 min	2.45
SC-25.04	10 min	4.00	10 min	4.12
SC-250.01	10 min	0.18	10 min	0.18
SC-251.01	10 min	0.43	10 min	0.44
SC-252.01	10 min	0.49	10 min	0.51
SC-252.02	10 min	0.92	10 min	0.95
SC-253.01	10 min	0.74	10 min	0.77
SC-253.02	10 min	2.64	10 min	2.76
SC-253.03	10 min	3.23	10 min	3.36
SC-254.01	10 min	0.74	10 min	0.79
SC-255.01	10 min	0.69	10 min	0.73
SC-256.01	10 min	0.61	10 min	0.63
SC-257.01	10 min	0.35	10 min	0.35
SC-258.01	10 min	1.58	10 min	1.59
SC-258.02	10 min	2.63	10 min	2.62
SC-259.01	10 min	0.68	10 min	0.70
SC-259.02	10 min	1.40	10 min	1.47
SC-259.03	10 min	1.99	10 min	2.06
SC-259.04	10 min	3.62	10 min	3.74
SC-259.05	10 min	4.41	10 min	4.58
SC-259.06	10 min	5.69	10 min	5.92
SC-259.07	10 min	7.17	10 min	7.40
SC-259.08	10 min	8.57	10 min	8.72
SC-259.09	10 min	22.34	10 min	22.41
SC-259.10	10 min	22.72	10 min	22.76
SC-26.01	10 min	0.48	10 min	0.51
SC-260.01	10 min	0.45	10 min	0.47
SC-261.01	10 min	0.58	10 min	0.59
SC-262.01	10 min	0.66	10 min	0.69
SC-262.02	10 min	1.19	10 min	1.22
SC-263.01	10 min	0.70	10 min	0.74
SC-264.01	10 min	0.39	10 min	0.40
SC-265.01	10 min	0.50	10 min	0.50
SC-265.02	20 min	1.20	20 min	1.18
SC-265.03	15 min	2.08	15 min	2.06
SC-265.04	10 min	10.21	10 min	10.11
SC-266.01	10 min	0.64	10 min	0.64
SC-266.02	10 min	1.22	10 min	1.22

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-266.03	10 min	1.47	10 min	1.47
SC-266.04	10 min	5.60	10 min	5.59
SC-266.05	10 min	6.48	10 min	6.45
SC-267.01	10 min	0.62	10 min	0.65
SC-268.01	10 min	1.04	10 min	1.05
SC-268.02	10 min	2.70	10 min	2.69
SC-269.01	20 min	0.43	20 min	0.43
SC-27.01	10 min	0.49	10 min	0.52
SC-270.01	20 min	0.47	20 min	0.47
SC-271.01	15 min	0.29	20 min	0.29
SC-272.01	20 min	0.71	20 min	0.71
SC-272.02	20 min	1.45	20 min	1.42
SC-272.03	10 min	2.58	10 min	2.55
SC-273.01	10 min	0.73	10 min	0.73
SC-274.01	20 min	0.36	20 min	0.35
SC-274.02	10 min	1.44	10 min	1.49
SC-274.03	10 min	3.48	10 min	3.59
SC-274.04	10 min	4.49	10 min	4.63
SC-274.05	10 min	5.81	10 min	5.97
SC-275.01	10 min	0.68	10 min	0.71
SC-276.01	10 min	0.50	10 min	0.52
SC-277.01	10 min	0.62	10 min	0.64
SC-278.01	10 min	0.38	10 min	0.39
SC-278.02	10 min	5.04	10 min	4.97
SC-279.01	10 min	0.66	10 min	0.65
SC-279.02	10 min	4.81	10 min	4.75
SC-28.01	20 min	0.41	20 min	0.41
SC-28.02	20 min	0.92	20 min	0.91
SC-28.03	20 min	1.29	10 min	1.34
SC-28.04	10 min	2.82	10 min	2.91
SC-280.01	10 min	0.62	10 min	0.63
SC-29.01	10 min	0.48	10 min	0.50
SC-29.02	10 min	1.29	10 min	1.31
SC-3.01	10 min	0.55	10 min	0.56
SC-3.02	15 min	1.73	15 min	1.77
SC-30.01	10 min	0.85	10 min	0.89
SC-30.02	10 min	1.52	10 min	1.54
SC-30.03	10 min	2.10	10 min	2.15
SC-30.04	10 min	2.66	10 min	2.75
SC-31.01	10 min	0.56	10 min	0.58
SC-31.02	10 min	1.15	10 min	1.19
SC-32.01	15 min	0.48	15 min	0.48

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-32.02	15 min	0.71	15 min	0.70
SC-33.01	10 min	0.71	10 min	0.75
SC-33.02	10 min	1.61	10 min	1.67
SC-34.01	10 min	0.55	10 min	0.57
SC-34.02	10 min	1.11	10 min	1.18
SC-34.03	10 min	1.32	10 min	1.38
SC-35.01	10 min	0.52	10 min	0.52
SC-35.02	10 min	1.39	10 min	1.38
SC-35.03	10 min	2.22	10 min	2.19
SC-35.04	10 min	2.37	10 min	2.36
SC-36.01	10 min	1.08	10 min	1.15
SC-36.02	10 min	1.95	10 min	2.08
SC-37.01	10 min	0.42	10 min	0.44
SC-37.02	10 min	1.15	10 min	1.21
SC-38.01	10 min	0.48	10 min	0.52
SC-39.01	10 min	0.28	10 min	0.29
SC-4.01	20 min	0.61	20 min	0.61
SC-40.01	10 min	0.66	10 min	0.67
SC-41.01	10 min	0.44	10 min	0.43
SC-42.01	10 min	1.48	10 min	1.47
SC-43.01	10 min	0.32	10 min	0.32
SC-44.01	10 min	1.01	10 min	1.07
SC-44.02	10 min	1.58	10 min	1.64
SC-44.03	10 min	2.17	10 min	2.24
SC-44.04	10 min	3.35	10 min	3.39
SC-44.05	10 min	5.80	10 min	5.92
SC-44.06	10 min	6.13	10 min	6.30
SC-44.07	10 min	6.82	10 min	6.95
SC-44.08	10 min	8.82	10 min	8.96
SC-44.09	10 min	9.12	10 min	9.32
SC-44.10	12 hours	2.42	12 hours	2.42
SC-44.11	45 min	12.48	45 min	12.50
SC-44.12	12 hours	5.67	12 hours	5.69
SC-44.13	12 hours	5.75	12 hours	5.77
SC-44.14	12 hours	6.49	12 hours	6.51
SC-44.15	12 hours	4.64	12 hours	4.60
SC-44.16	12 hours	4.66	12 hours	4.62
SC-44.17	15 min	8.32	15 min	8.41
SC-44.18	15 min	8.86	15 min	8.97
SC-44.19	15 min	10.10	15 min	10.18
SC-44.20	25 min	9.34	25 min	9.35
SC-45.01	10 min	0.74	10 min	0.77

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-46.01	10 min	0.61	10 min	0.61
SC-46.02	10 min	1.03	10 min	1.02
SC-46.03	10 min	1.55	10 min	1.55
SC-46.04	10 min	1.74	10 min	1.76
SC-47.01	10 min	0.99	10 min	1.05
SC-48.01	10 min	0.75	10 min	0.79
SC-48.02	10 min	1.17	10 min	1.20
SC-49.01	10 min	0.84	10 min	0.88
SC-5.01	10 min	0.53	10 min	0.53
SC-50.01	10 min	0.28	10 min	0.29
SC-51.01	10 min	0.29	10 min	0.30
SC-52.01	10 min	0.29	10 min	0.30
SC-53.01	10 min	0.72	10 min	0.77
SC-53.02	10 min	1.45	10 min	1.51
SC-53.03	10 min	1.76	10 min	1.81
SC-54.01	10 min	0.59	10 min	0.62
SC-54.02	10 min	1.10	10 min	1.15
SC-55.01	10 min	0.91	10 min	0.96
SC-56.01	10 min	0.42	10 min	0.44
SC-57.01	10 min	0.31	10 min	0.32
SC-58.01	10 min	0.59	10 min	0.61
SC-59.01	10 min	0.79	10 min	0.83
SC-59.02	10 min	1.49	10 min	1.55
SC-59.03	10 min	2.18	10 min	2.24
SC-59.04	10 min	2.82	10 min	2.86
SC-59.05	10 min	5.96	10 min	6.09
SC-59.06	10 min	6.84	10 min	6.98
SC-59.07	10 min	11.45	10 min	11.68
SC-59.08	15 min	11.49	15 min	11.56
SC-59.09	15 min	14.04	15 min	14.16
SC-59.10	25 min	12.35	25 min	12.43
SC-6.01	10 min	0.69	10 min	0.69
SC-60.01	10 min	0.53	10 min	0.52
SC-60.02	10 min	2.10	10 min	2.08
SC-61.01	10 min	1.10	10 min	1.09
SC-62.01	10 min	0.70	10 min	0.74
SC-63.01	10 min	0.40	10 min	0.40
SC-64.01	10 min	0.53	10 min	0.54
SC-64.02	10 min	1.76	10 min	1.82
SC-64.03	10 min	3.31	10 min	3.42
SC-64.04	10 min	4.60	10 min	4.74
SC-65.01	10 min	0.41	10 min	0.42

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-66.01	10 min	0.32	10 min	0.34
SC-66.02	15 min	0.72	15 min	0.70
SC-67.01	10 min	0.59	10 min	0.62
SC-68.01	10 min	0.81	10 min	0.86
SC-68.02	10 min	1.52	10 min	1.55
SC-68.03	10 min	2.77	10 min	2.85
SC-69.01	10 min	0.70	10 min	0.72
SC-7.01	10 min	0.90	10 min	0.93
SC-70.01	10 min	0.64	10 min	0.67
SC-70.02	10 min	1.02	10 min	1.04
SC-71.01	10 min	0.81	10 min	0.86
SC-71.02	10 min	1.53	10 min	1.58
SC-72.01	10 min	0.87	10 min	0.92
SC-73.01	10 min	0.70	10 min	0.75
SC-74.01	10 min	0.81	10 min	0.86
SC-75.01	10 min	0.47	10 min	0.48
SC-75.02	10 min	1.91	10 min	1.91
SC-75.03	10 min	2.72	10 min	2.78
SC-75.04	10 min	4.69	10 min	4.88
SC-76.01	10 min	0.65	10 min	0.65
SC-77.01	10 min	0.96	10 min	1.01
SC-77.02	10 min	1.45	10 min	1.52
SC-77.03	10 min	2.01	10 min	2.08
SC-78.01	10 min	0.90	10 min	0.95
SC-79.01	10 min	0.96	10 min	0.98
SC-79.02	10 min	1.78	10 min	1.83
SC-79.03	10 min	3.90	10 min	4.02
SC-8.01	10 min	0.76	10 min	0.79
SC-8.02	10 min	1.82	10 min	1.91
SC-8.03	10 min	4.76	10 min	4.85
SC-8.04	10 min	8.34	10 min	8.64
SC-8.05	10 min	9.11	10 min	9.42
SC-8.06	10 min	9.46	10 min	9.86
SC-80.01	10 min	0.94	10 min	0.99
SC-80.02	10 min	1.86	10 min	1.90
SC-81.01	10 min	0.70	10 min	0.74
SC-81.02	10 min	2.07	10 min	2.13
SC-82.01	10 min	0.84	10 min	0.89
SC-83.01	10 min	0.53	10 min	0.56
SC-84.01	10 min	0.79	10 min	0.84
SC-84.02	10 min	1.92	10 min	2.04
SC-84.03	10 min	2.54	10 min	2.66

Future Catchment Development Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Future Catchment Development	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-84.04	10 min	3.01	10 min	3.13
SC-84.05	10 min	3.56	10 min	3.73
SC-84.06	10 min	3.93	10 min	4.10
SC-85.01	10 min	0.49	10 min	0.52
SC-86.01	10 min	0.75	10 min	0.79
SC-86.02	10 min	1.44	10 min	1.50
SC-87.01	10 min	1.10	10 min	1.15
SC-87.02	10 min	1.84	10 min	1.90
SC-88.01	10 min	0.49	10 min	0.52
SC-88.02	10 min	0.80	10 min	0.82
SC-89.01	10 min	0.54	10 min	0.56
SC-89.02	10 min	0.59	10 min	0.60
SC-9.01	10 min	0.71	10 min	0.75
SC-90.01	10 min	0.21	10 min	0.23
SC-91.01	10 min	0.64	10 min	0.65
SC-91.02	10 min	1.31	10 min	1.32
SC-92.01	10 min	0.63	10 min	0.65
SC-92.02	10 min	1.75	10 min	1.82
SC-93.01	10 min	0.69	10 min	0.69
SC-94.01	10 min	0.76	10 min	0.78
SC-94.02	10 min	1.75	10 min	1.77
SC-95.01	10 min	0.45	10 min	0.45
SC-95.02	10 min	1.09	10 min	1.09
SC-96.01	10 min	0.50	10 min	0.51
SC-97.01	10 min	0.34	10 min	0.33
SC-97.02	10 min	1.94	10 min	2.00
SC-98.01	10 min	0.59	10 min	0.63
SC-99.01	10 min	0.57	10 min	0.60
SC-99.02	10 min	1.54	10 min	1.58
SC-99.03	10 min	2.64	10 min	2.71
SC-99.04	10 min	7.03	10 min	7.18
Dummy1	15 min	35.32	15 min	35.46
Dummy2	25 min	55.39	25 min	55.44
Dummy3	30 min	106.76	30 min	107.21
DummyOut	1.50 hour	113.93	1.50 hour	114.04

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.42	10 min	0.48	10 min	0.53
SC-1.02	10 min	0.95	10 min	1.05	10 min	1.15
SC-1.03	10 min	1.14	10 min	1.26	10 min	1.38
SC-1.04	10 min	2.94	10 min	3.28	10 min	3.63
SC-1.05	10 min	3.19	10 min	3.52	10 min	3.88
SC-1.06	10 min	3.70	10 min	4.08	10 min	4.50
SC-1.07	10 min	3.80	10 min	4.19	10 min	4.59
SC-1.08	1.50 hour	2.93	1 hour	3.67	1 hour	4.35
SC-1.09	2 hours	3.19	2 hours	3.98	2 hours	4.54
SC-1.10	2 hours	3.24	2 hours	4.05	2 hours	4.62
SC-1.11	10 min	6.86	10 min	7.56	10 min	8.33
SC-1.12	10 min	8.52	10 min	9.38	10 min	10.33
SC-1.13	10 min	9.54	10 min	10.54	10 min	11.62
SC-1.14	10 min	11.06	10 min	12.30	10 min	13.62
SC-1.15	10 min	11.89	10 min	13.24	10 min	14.64
SC-1.16	20 min	13.33	20 min	14.97	20 min	16.53
SC-1.17	20 min	13.63	20 min	15.23	20 min	16.85
SC-1.18	45 min	12.19	45 min	12.95	45 min	13.57
SC-1.19	45 min	9.81	45 min	10.62	45 min	11.51
SC-1.20	45 min	9.82	45 min	10.61	45 min	11.47
SC-1.21	45 min	9.84	45 min	10.62	1.50 hour	11.63
SC-1.22	1.50 hour	10.30	1.50 hour	11.11	1.50 hour	11.97
SC-1.23	1 hour	13.69	1 hour	14.77	1 hour	15.84
SC-1.24	1 hour	18.02	1 hour	19.57	1 hour	21.09
SC-1.25	1 hour	18.17	1 hour	19.72	1 hour	21.26
SC-1.26	45 min	19.25	45 min	21.75	45 min	23.58
SC-1.27	45 min	19.67	45 min	22.05	45 min	23.91
SC-1.28	45 min	25.24	45 min	28.26	45 min	30.84
SC-1.29	45 min	26.90	45 min	29.94	45 min	32.63
SC-1.30	45 min	27.49	45 min	30.34	45 min	33.06
SC-1.31	45 min	27.75	45 min	30.60	45 min	33.34
SC-1.32	45 min	28.08	45 min	30.95	45 min	33.72
SC-1.33	45 min	28.54	45 min	31.43	45 min	34.22
SC-1.34	45 min	28.58	45 min	31.47	45 min	34.39
SC-1.35	45 min	28.64	45 min	31.55	45 min	34.76
SC-1.36	45 min	30.48	45 min	33.97	45 min	37.60
SC-10.01	10 min	0.47	10 min	0.52	10 min	0.57
SC-100.01	10 min	0.56	10 min	0.61	10 min	0.67
SC-100.02	10 min	0.95	10 min	1.04	10 min	1.14
SC-101.01	10 min	0.57	10 min	0.63	10 min	0.69
SC-101.02	10 min	0.99	10 min	1.09	10 min	1.19
SC-102.01	10 min	0.45	10 min	0.50	10 min	0.55
SC-102.02	10 min	1.68	10 min	1.85	10 min	2.05
SC-103.01	10 min	0.31	10 min	0.34	10 min	0.37

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	10 min	1.03	10 min	1.14	10 min	1.27
SC-104.01	10 min	0.28	10 min	0.30	10 min	0.34
SC-105.01	10 min	0.29	10 min	0.33	10 min	0.36
SC-105.02	10 min	0.67	10 min	0.75	10 min	0.83
SC-105.03	10 min	1.57	10 min	1.75	10 min	1.94
SC-105.04	10 min	2.10	10 min	2.35	10 min	2.60
SC-105.05	10 min	2.49	10 min	2.78	10 min	3.10
SC-105.06	10 min	2.57	20 min	2.89	20 min	3.25
SC-105.07	10 min	3.88	20 min	4.18	20 min	4.70
SC-105.08	10 min	4.45	10 min	4.95	10 min	5.47
SC-105.09	10 min	6.16	10 min	6.78	10 min	7.45
SC-106.01	10 min	0.22	10 min	0.24	10 min	0.26
SC-107.01	10 min	0.38	10 min	0.41	10 min	0.46
SC-108.01	10 min	0.27	10 min	0.30	10 min	0.33
SC-109.01	10 min	0.35	10 min	0.39	10 min	0.43
SC-11.01	10 min	0.29	10 min	0.32	10 min	0.35
SC-110.01	10 min	0.31	10 min	0.36	10 min	0.39
SC-110.02	10 min	0.71	10 min	0.80	10 min	0.88
SC-110.03	10 min	0.77	10 min	0.86	10 min	0.94
SC-111.01	45 min	0.19	25 min	0.20	25 min	0.22
SC-112.01	10 min	0.52	10 min	0.59	10 min	0.65
SC-113.01	10 min	0.20	10 min	0.22	10 min	0.24
SC-113.02	10 min	0.62	10 min	0.68	10 min	0.76
SC-114.01	10 min	0.32	10 min	0.37	10 min	0.41
SC-114.02	10 min	0.53	10 min	0.59	10 min	0.65
SC-114.03	10 min	1.13	10 min	1.25	10 min	1.37
SC-115.01	10 min	0.30	10 min	0.34	10 min	0.38
SC-115.02	10 min	0.49	10 min	0.55	10 min	0.60
SC-116.01	10 min	0.30	10 min	0.34	10 min	0.37
SC-116.02	10 min	0.50	10 min	0.55	10 min	0.60
SC-117.01	10 min	0.19	10 min	0.20	10 min	0.22
SC-118.01	10 min	0.38	10 min	0.43	10 min	0.48
SC-119.01	10 min	0.59	10 min	0.65	10 min	0.72
SC-119.02	10 min	1.51	10 min	1.68	10 min	1.84
SC-12.01	10 min	0.33	10 min	0.37	10 min	0.40
SC-12.02	10 min	0.58	10 min	0.64	10 min	0.70
SC-12.03	10 min	1.07	10 min	1.18	10 min	1.29
SC-12.04	10 min	1.35	10 min	1.50	10 min	1.64
SC-120.01	10 min	0.27	10 min	0.30	10 min	0.33
SC-121.01	10 min	0.33	10 min	0.38	10 min	0.41
SC-122.01	10 min	0.55	10 min	0.61	10 min	0.67
SC-122.02	10 min	0.89	10 min	0.96	10 min	1.06
SC-122.03	10 min	1.16	10 min	1.27	10 min	1.41
SC-123.01	10 min	0.28	10 min	0.30	10 min	0.33

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	10 min	0.79	10 min	0.87	10 min	0.96
SC-123.03	10 min	5.28	10 min	5.85	10 min	6.47
SC-123.04	10 min	5.38	10 min	5.94	10 min	6.56
SC-123.05	10 min	6.83	10 min	7.48	10 min	8.20
SC-123.06	10 min	7.09	10 min	7.77	10 min	8.52
SC-123.07	10 min	7.48	10 min	8.24	10 min	9.06
SC-124.01	45 min	0.27	25 min	0.31	25 min	0.35
SC-124.02	20 min	1.92	20 min	2.24	20 min	2.54
SC-125.01	45 min	0.37	25 min	0.42	25 min	0.48
SC-126.01	10 min	0.26	10 min	0.29	10 min	0.31
SC-126.02	20 min	0.52	20 min	0.58	20 min	0.65
SC-126.03	20 min	1.03	20 min	1.20	20 min	1.36
SC-127.01	10 min	0.61	10 min	0.67	10 min	0.74
SC-127.02	10 min	1.66	10 min	1.83	10 min	2.01
SC-128.01	10 min	0.59	10 min	0.65	10 min	0.72
SC-129.01	10 min	0.28	10 min	0.32	10 min	0.35
SC-13.01	10 min	0.30	10 min	0.34	10 min	0.37
SC-130.01	10 min	0.44	10 min	0.50	10 min	0.55
SC-131.01	10 min	0.18	10 min	0.20	10 min	0.22
SC-132.01	10 min	0.25	10 min	0.28	10 min	0.30
SC-133.01	10 min	0.19	10 min	0.20	10 min	0.22
SC-134.01	10 min	0.15	10 min	0.17	10 min	0.18
SC-134.02	10 min	0.47	10 min	0.52	10 min	0.58
SC-134.03	20 min	0.89	20 min	0.99	20 min	1.10
SC-134.04	20 min	1.21	20 min	1.40	20 min	1.59
SC-135.01	10 min	0.13	10 min	0.14	10 min	0.15
SC-135.02	10 min	0.68	10 min	0.74	10 min	0.81
SC-135.03	10 min	0.89	10 min	0.98	10 min	1.07
SC-135.04	10 min	1.98	10 min	2.17	10 min	2.39
SC-135.05	10 min	2.25	10 min	2.48	10 min	2.73
SC-135.06	10 min	3.60	10 min	4.02	10 min	4.46
SC-136.01	10 min	0.36	10 min	0.41	10 min	0.45
SC-137.01	10 min	0.38	10 min	0.40	10 min	0.44
SC-138.01	10 min	0.47	10 min	0.50	10 min	0.55
SC-139.01	10 min	0.42	10 min	0.48	10 min	0.52
SC-139.02	10 min	0.51	10 min	0.58	10 min	0.63
SC-14.01	10 min	0.53	10 min	0.59	10 min	0.65
SC-14.02	10 min	0.84	10 min	0.91	10 min	0.99
SC-14.03	10 min	1.07	10 min	1.18	10 min	1.29
SC-140.01	10 min	0.30	10 min	0.33	10 min	0.37
SC-141.01	20 min	0.41	20 min	0.49	20 min	0.54
SC-142.01	45 min	0.63	25 min	0.69	25 min	0.77
SC-143.01	10 min	0.24	20 min	0.28	20 min	0.32
SC-143.02	20 min	2.24	20 min	2.53	20 min	2.86

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	10 min	0.35	10 min	0.37	10 min	0.41
SC-144.02	10 min	0.50	10 min	0.54	10 min	0.59
SC-144.03	10 min	0.66	10 min	0.72	10 min	0.79
SC-144.04	10 min	1.15	10 min	1.27	10 min	1.41
SC-144.05	10 min	2.09	10 min	2.36	10 min	2.64
SC-145.01	10 min	0.47	10 min	0.51	10 min	0.55
SC-145.02	10 min	0.83	10 min	0.91	10 min	1.00
SC-146.01	45 min	0.76	25 min	0.77	25 min	0.86
SC-147.01	20 min	0.35	15 min	0.41	15 min	0.47
SC-147.02	45 min	0.49	20 min	0.59	20 min	0.65
SC-147.03	20 min	1.38	20 min	1.55	20 min	1.71
SC-148.01	10 min	0.38	10 min	0.42	10 min	0.46
SC-148.02	20 min	0.72	20 min	0.81	20 min	0.89
SC-149.01	10 min	0.26	10 min	0.28	10 min	0.32
SC-149.02	20 min	0.78	20 min	0.87	20 min	0.97
SC-15.01	10 min	0.52	10 min	0.58	10 min	0.64
SC-15.02	10 min	0.70	10 min	0.78	10 min	0.86
SC-15.03	10 min	1.11	10 min	1.23	10 min	1.35
SC-150.01	10 min	0.32	10 min	0.36	10 min	0.40
SC-150.02	10 min	0.62	10 min	0.70	10 min	0.76
SC-150.03	10 min	1.61	10 min	1.77	10 min	1.95
SC-150.04	10 min	2.08	10 min	2.30	10 min	2.52
SC-150.05	10 min	2.95	10 min	3.23	10 min	3.55
SC-150.06	10 min	5.52	10 min	6.09	10 min	6.68
SC-150.07	10 min	8.70	10 min	9.56	10 min	10.51
SC-150.08	6 hours	3.14	6 hours	4.15	6 hours	4.57
SC-150.09	6 hours	3.35	6 hours	4.38	6 hours	4.83
SC-150.10	6 hours	4.12	6 hours	5.19	6 hours	5.72
SC-150.11	10 min	9.43	10 min	10.38	10 min	11.40
SC-150.12	10 min	14.63	10 min	16.09	10 min	17.66
SC-150.13	10 min	16.46	10 min	18.12	10 min	19.89
SC-150.14	20 min	23.09	20 min	26.01	20 min	28.90
SC-150.15	20 min	23.35	20 min	26.30	20 min	29.28
SC-150.16	20 min	24.72	20 min	27.76	20 min	30.86
SC-150.17	20 min	25.39	20 min	28.42	20 min	31.55
SC-151.01	10 min	0.42	10 min	0.48	10 min	0.53
SC-151.02	10 min	0.67	10 min	0.74	10 min	0.81
SC-152.01	10 min	0.39	10 min	0.41	10 min	0.45
SC-153.01	10 min	0.32	10 min	0.35	10 min	0.38
SC-153.02	10 min	0.75	10 min	0.83	10 min	0.91
SC-154.01	10 min	0.55	10 min	0.61	10 min	0.67
SC-154.02	10 min	1.98	10 min	2.18	10 min	2.39
SC-155.01	10 min	0.21	20 min	0.22	20 min	0.25
SC-155.02	10 min	0.59	10 min	0.65	10 min	0.72

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	10 min	0.24	10 min	0.26	10 min	0.28
SC-157.01	10 min	0.29	10 min	0.32	10 min	0.34
SC-158.01	10 min	0.36	10 min	0.41	10 min	0.45
SC-158.02	10 min	0.46	10 min	0.52	10 min	0.57
SC-158.03	10 min	1.02	10 min	1.13	10 min	1.24
SC-158.04	10 min	1.90	10 min	2.10	10 min	2.30
SC-159.01	10 min	0.28	10 min	0.32	10 min	0.35
SC-16.01	10 min	0.35	10 min	0.39	10 min	0.43
SC-160.01	10 min	0.28	10 min	0.32	10 min	0.35
SC-160.02	10 min	0.63	10 min	0.70	10 min	0.76
SC-161.01	10 min	0.34	10 min	0.39	10 min	0.42
SC-161.02	10 min	0.68	10 min	0.74	10 min	0.81
SC-162.01	10 min	0.42	10 min	0.45	10 min	0.49
SC-163.01	10 min	0.22	20 min	0.24	20 min	0.27
SC-163.02	10 min	0.43	20 min	0.47	20 min	0.52
SC-163.03	10 min	0.71	10 min	0.80	10 min	0.88
SC-163.04	10 min	1.01	10 min	1.11	10 min	1.23
SC-163.05	10 min	1.79	10 min	1.97	10 min	2.17
SC-164.01	10 min	0.37	10 min	0.40	10 min	0.43
SC-165.01	10 min	0.32	10 min	0.34	10 min	0.37
SC-165.02	10 min	0.81	10 min	0.87	10 min	0.95
SC-165.03	10 min	1.04	10 min	1.13	10 min	1.23
SC-165.04	10 min	2.20	10 min	2.42	10 min	2.66
SC-165.05	10 min	3.73	10 min	4.10	10 min	4.50
SC-166.01	10 min	0.29	10 min	0.31	10 min	0.34
SC-167.01	10 min	0.41	10 min	0.46	10 min	0.50
SC-167.02	10 min	1.03	10 min	1.14	10 min	1.25
SC-168.01	10 min	0.32	10 min	0.36	10 min	0.40
SC-169.01	10 min	0.32	10 min	0.34	10 min	0.38
SC-169.02	10 min	0.57	10 min	0.62	10 min	0.68
SC-169.03	10 min	1.27	10 min	1.39	10 min	1.53
SC-17.01	10 min	0.30	10 min	0.34	10 min	0.38
SC-17.02	10 min	0.54	10 min	0.59	10 min	0.65
SC-17.03	10 min	0.88	10 min	0.97	10 min	1.07
SC-17.04	10 min	2.07	10 min	2.30	10 min	2.56
SC-17.05	10 min	2.88	10 min	3.21	10 min	3.55
SC-17.06	10 min	3.33	10 min	3.67	10 min	4.02
SC-17.07	10 min	3.50	10 min	3.86	10 min	4.24
SC-170.01	10 min	0.28	10 min	0.30	10 min	0.33
SC-171.01	10 min	0.21	10 min	0.22	10 min	0.24
SC-172.01	10 min	0.40	10 min	0.44	10 min	0.49
SC-172.02	10 min	0.70	10 min	0.76	10 min	0.83
SC-173.01	1 hour	0.34	1 hour	0.41	45 min	0.45
SC-173.02	20 min	0.71	20 min	0.84	20 min	0.93

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	10 min	0.78	20 min	0.84	20 min	0.96
SC-173.04	10 min	1.46	10 min	1.62	10 min	1.79
SC-173.05	10 min	1.75	10 min	1.92	10 min	2.11
SC-174.01	10 min	0.25	10 min	0.28	10 min	0.30
SC-175.01	10 min	0.43	10 min	0.49	10 min	0.54
SC-175.02	10 min	0.88	10 min	0.97	10 min	1.07
SC-175.03	10 min	1.41	10 min	1.56	10 min	1.71
SC-175.04	10 min	1.75	10 min	1.93	10 min	2.11
SC-175.05	10 min	2.00	10 min	2.20	10 min	2.41
SC-176.01	10 min	0.18	20 min	0.19	20 min	0.22
SC-177.01	10 min	0.25	10 min	0.28	10 min	0.30
SC-177.02	10 min	0.64	10 min	0.71	10 min	0.78
SC-177.03	10 min	1.77	10 min	1.95	10 min	2.15
SC-177.04	10 min	2.40	10 min	2.67	10 min	2.93
SC-178.01	10 min	0.52	10 min	0.58	10 min	0.64
SC-178.02	10 min	0.80	10 min	0.88	10 min	0.97
SC-179.01	10 min	0.43	10 min	0.49	10 min	0.53
SC-18.01	10 min	0.34	10 min	0.38	10 min	0.42
SC-18.02	10 min	0.53	10 min	0.58	10 min	0.65
SC-180.01	10 min	0.41	10 min	0.46	10 min	0.51
SC-180.02	10 min	0.72	10 min	0.79	10 min	0.87
SC-180.03	10 min	1.00	10 min	1.11	10 min	1.22
SC-180.04	10 min	1.44	10 min	1.59	10 min	1.75
SC-181.01	10 min	0.17	20 min	0.19	20 min	0.22
SC-181.02	10 min	0.61	10 min	0.66	10 min	0.73
SC-181.03	10 min	0.99	10 min	1.10	10 min	1.20
SC-181.04	10 min	1.77	10 min	1.97	10 min	2.17
SC-181.05	10 min	1.98	10 min	2.19	10 min	2.41
SC-181.06	10 min	2.21	10 min	2.43	10 min	2.67
SC-181.07	10 min	5.04	10 min	5.56	10 min	6.10
SC-181.08	10 min	5.16	10 min	5.69	10 min	6.26
SC-182.01	10 min	0.29	10 min	0.33	10 min	0.36
SC-182.02	10 min	0.47	10 min	0.52	10 min	0.57
SC-182.03	10 min	0.74	10 min	0.83	20 min	0.89
SC-183.01	10 min	0.27	10 min	0.30	20 min	0.33
SC-183.02	10 min	0.63	10 min	0.69	10 min	0.77
SC-183.03	10 min	1.60	10 min	1.76	10 min	1.94
SC-183.04	10 min	1.85	10 min	2.04	10 min	2.24
SC-184.01	10 min	0.68	10 min	0.75	10 min	0.82
SC-185.01	10 min	0.40	10 min	0.45	10 min	0.50
SC-185.02	10 min	0.89	10 min	0.98	10 min	1.08
SC-186.01	10 min	0.14	10 min	0.16	10 min	0.18
SC-187.01	10 min	0.42	10 min	0.47	10 min	0.51
SC-187.02	10 min	0.80	10 min	0.89	10 min	0.97

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	10 min	0.96	10 min	1.07	10 min	1.17
SC-187.04	10 min	1.24	10 min	1.37	10 min	1.51
SC-187.05	10 min	1.48	10 min	1.64	10 min	1.80
SC-188.01	10 min	0.44	10 min	0.49	10 min	0.54
SC-188.02	10 min	0.66	10 min	0.72	10 min	0.79
SC-189.01	10 min	0.50	10 min	0.55	10 min	0.60
SC-189.02	10 min	0.89	10 min	0.99	10 min	1.08
SC-19.01	10 min	0.20	15 min	0.22	10 min	0.24
SC-190.01	10 min	0.22	10 min	0.24	10 min	0.27
SC-191.01	10 min	0.40	10 min	0.44	10 min	0.49
SC-191.02	10 min	0.57	10 min	0.64	10 min	0.70
SC-191.03	10 min	1.05	10 min	1.15	10 min	1.27
SC-191.04	10 min	1.52	10 min	1.69	10 min	1.86
SC-191.05	10 min	2.17	10 min	2.40	10 min	2.63
SC-191.06	10 min	3.73	10 min	4.12	10 min	4.53
SC-191.07	10 min	4.42	10 min	4.90	10 min	5.41
SC-191.08	10 min	4.85	10 min	5.33	10 min	5.86
SC-192.01	10 min	1.28	10 min	1.40	10 min	1.52
SC-193.01	10 min	0.54	10 min	0.61	10 min	0.67
SC-194.01	10 min	0.54	20 min	0.60	20 min	0.67
SC-194.02	1 hour	1.84	45 min	2.13	45 min	2.44
SC-194.03	45 min	2.03	45 min	2.40	45 min	2.76
SC-195.01	45 min	0.61	45 min	0.74	45 min	0.87
SC-196.01	10 min	1.76	10 min	1.95	10 min	2.17
SC-197.01	10 min	1.17	20 min	1.28	20 min	1.43
SC-198.01	45 min	1.03	25 min	1.05	25 min	1.18
SC-2.01	10 min	0.25	20 min	0.27	20 min	0.31
SC-20.01	10 min	0.27	10 min	0.30	10 min	0.33
SC-200.01	10 min	0.42	10 min	0.44	10 min	0.48
SC-200.02	10 min	0.70	10 min	0.75	10 min	0.82
SC-200.03	10 min	1.27	10 min	1.40	10 min	1.54
SC-200.04	10 min	1.82	10 min	2.03	10 min	2.25
SC-200.05	10 min	2.94	10 min	3.28	10 min	3.63
SC-200.06	20 min	4.27	20 min	4.79	20 min	5.28
SC-200.07	20 min	4.76	20 min	5.40	20 min	6.00
SC-200.08	20 min	5.37	20 min	6.07	20 min	6.74
SC-200.09	45 min	7.71	20 min	8.83	20 min	9.93
SC-201.01	10 min	0.48	10 min	0.54	10 min	0.59
SC-202.01	10 min	0.49	10 min	0.55	10 min	0.60
SC-203.01	10 min	0.51	10 min	0.56	10 min	0.61
SC-204.01	20 min	0.61	20 min	0.69	20 min	0.78
SC-205.01	45 min	0.22	25 min	0.25	25 min	0.27
SC-206.01	45 min	1.67	20 min	1.98	15 min	2.25
SC-207.01	10 min	0.50	10 min	0.53	10 min	0.58

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	10 min	0.93	10 min	1.01	10 min	1.11
SC-207.03	10 min	1.01	10 min	1.10	10 min	1.21
SC-207.04	10 min	2.86	10 min	3.17	10 min	3.49
SC-207.05	10 min	3.90	10 min	4.28	10 min	4.69
SC-207.06	10 min	4.20	10 min	4.63	10 min	5.09
SC-207.07	10 min	6.45	10 min	7.22	10 min	8.02
SC-207.08	10 min	9.78	10 min	10.87	10 min	12.02
SC-207.09	10 min	10.80	10 min	12.12	10 min	13.51
SC-207.10	20 min	11.21	20 min	12.66	20 min	14.15
SC-207.11	20 min	11.97	20 min	13.60	20 min	15.25
SC-207.12	20 min	17.23	20 min	19.43	20 min	21.74
SC-207.13	20 min	18.12	20 min	20.45	20 min	22.90
SC-207.14	20 min	18.90	20 min	21.33	20 min	23.88
SC-208.01	10 min	0.52	10 min	0.57	10 min	0.63
SC-208.02	10 min	0.75	10 min	0.82	10 min	0.90
SC-208.03	10 min	0.98	10 min	1.08	10 min	1.18
SC-208.04	10 min	1.55	10 min	1.70	10 min	1.86
SC-208.05	10 min	1.80	10 min	1.97	10 min	2.16
SC-209.01	10 min	0.34	10 min	0.36	10 min	0.40
SC-21.01	10 min	0.39	10 min	0.43	10 min	0.47
SC-210.01	10 min	0.71	10 min	0.78	10 min	0.86
SC-210.02	10 min	0.99	10 min	1.08	10 min	1.18
SC-211.01	1 hour	0.21	45 min	0.25	25 min	0.27
SC-211.02	45 min	0.46	45 min	0.56	45 min	0.66
SC-211.03	1 hour	0.77	45 min	0.91	45 min	1.05
SC-211.04	1 hour	0.92	45 min	1.09	45 min	1.25
SC-212.01	2 hours	0.08	2 hours	0.10	1.50 hour	0.11
SC-212.02	1 hour	0.15	1 hour	0.19	1 hour	0.21
SC-213.01	10 min	0.30	10 min	0.33	10 min	0.36
SC-213.02	10 min	0.48	10 min	0.54	10 min	0.60
SC-214.01	10 min	0.36	10 min	0.41	10 min	0.45
SC-214.02	10 min	0.79	10 min	0.88	10 min	0.97
SC-215.01	10 min	0.30	10 min	0.32	10 min	0.35
SC-215.02	10 min	0.52	10 min	0.58	10 min	0.64
SC-216.01	10 min	0.27	10 min	0.31	10 min	0.34
SC-216.02	10 min	0.87	10 min	0.94	10 min	1.03
SC-216.03	10 min	1.35	10 min	1.47	10 min	1.60
SC-216.04	10 min	1.87	10 min	2.04	10 min	2.23
SC-217.01	10 min	0.20	10 min	0.22	10 min	0.24
SC-218.01	10 min	0.15	10 min	0.17	10 min	0.18
SC-219.01	10 min	0.20	10 min	0.22	10 min	0.24
SC-22.01	10 min	0.22	10 min	0.24	10 min	0.26
SC-220.01	10 min	0.30	10 min	0.34	10 min	0.37
SC-221.01	10 min	0.28	10 min	0.31	10 min	0.34

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	10 min	0.60	10 min	0.65	10 min	0.71
SC-221.03	10 min	0.74	10 min	0.81	10 min	0.88
SC-221.04	10 min	1.08	10 min	1.17	10 min	1.29
SC-221.05	10 min	1.40	10 min	1.53	10 min	1.68
SC-221.06	10 min	1.49	10 min	1.62	10 min	1.77
SC-222.01	10 min	0.29	10 min	0.33	10 min	0.36
SC-222.02	10 min	0.47	10 min	0.52	10 min	0.57
SC-222.03	20 min	0.97	20 min	1.10	20 min	1.21
SC-223.01	10 min	0.13	10 min	0.14	10 min	0.16
SC-224.01	45 min	0.30	25 min	0.31	20 min	0.39
SC-225.01	10 min	0.24	10 min	0.26	10 min	0.28
SC-226.01	10 min	0.18	10 min	0.20	10 min	0.22
SC-226.02	10 min	0.41	10 min	0.45	10 min	0.50
SC-226.03	10 min	0.84	10 min	0.94	10 min	1.04
SC-226.04	10 min	1.28	10 min	1.42	10 min	1.56
SC-226.05	10 min	4.98	10 min	5.47	10 min	6.04
SC-226.06	10 min	5.52	10 min	6.04	10 min	6.63
SC-226.07	10 min	5.99	10 min	6.57	10 min	7.22
SC-226.08	10 min	6.12	10 min	6.77	10 min	7.48
SC-227.01	10 min	0.10	10 min	0.10	10 min	0.11
SC-228.01	10 min	0.20	10 min	0.22	10 min	0.24
SC-229.01	10 min	0.14	10 min	0.15	10 min	0.17
SC-23.01	10 min	0.28	10 min	0.32	10 min	0.35
SC-23.02	10 min	0.81	10 min	0.90	10 min	1.00
SC-23.03	10 min	1.00	10 min	1.12	10 min	1.24
SC-230.01	10 min	0.14	10 min	0.15	10 min	0.16
SC-231.01	10 min	0.15	10 min	0.16	10 min	0.18
SC-232.01	10 min	0.40	10 min	0.43	10 min	0.47
SC-232.02	10 min	0.60	10 min	0.66	10 min	0.72
SC-232.03	10 min	1.37	10 min	1.51	10 min	1.66
SC-233.01	10 min	0.27	10 min	0.30	10 min	0.33
SC-233.02	10 min	0.43	10 min	0.48	10 min	0.53
SC-234.01	10 min	0.37	10 min	0.42	10 min	0.46
SC-234.02	10 min	0.75	10 min	0.81	10 min	0.90
SC-234.03	10 min	2.14	10 min	2.37	10 min	2.62
SC-235.01	10 min	0.14	10 min	0.16	10 min	0.17
SC-236.01	10 min	0.19	10 min	0.20	10 min	0.22
SC-236.02	10 min	0.29	10 min	0.31	10 min	0.34
SC-237.01	10 min	0.25	10 min	0.27	10 min	0.29
SC-237.02	10 min	0.49	20 min	0.54	20 min	0.61
SC-238.01	10 min	0.16	10 min	0.18	10 min	0.20
SC-238.02	10 min	0.38	10 min	0.40	10 min	0.44
SC-239.01	10 min	0.21	10 min	0.23	10 min	0.25
SC-24.01	10 min	0.25	10 min	0.28	10 min	0.30

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	45 min	0.40	45 min	0.49	25 min	0.52
SC-240.02	45 min	0.61	25 min	0.66	25 min	0.76
SC-241.01	45 min	1.92	20 min	2.24	20 min	2.52
SC-242.01	10 min	0.30	10 min	0.32	10 min	0.35
SC-242.02	10 min	0.73	10 min	0.81	10 min	0.89
SC-242.03	10 min	1.09	10 min	1.20	10 min	1.32
SC-242.04	10 min	1.16	10 min	1.28	10 min	1.41
SC-242.05	10 min	2.59	10 min	2.85	10 min	3.13
SC-242.06	10 min	3.42	10 min	3.77	10 min	4.13
SC-242.07	10 min	3.50	10 min	3.86	10 min	4.25
SC-242.08	45 min	5.87	20 min	6.34	20 min	7.04
SC-243.01	10 min	0.27	10 min	0.29	10 min	0.32
SC-243.02	10 min	0.98	10 min	1.09	10 min	1.19
SC-244.01	10 min	0.37	10 min	0.42	10 min	0.46
SC-245.01	10 min	0.21	10 min	0.22	10 min	0.24
SC-246.01	10 min	0.13	10 min	0.15	10 min	0.16
SC-246.02	20 min	0.32	20 min	0.35	20 min	0.39
SC-247.01	10 min	0.35	10 min	0.39	10 min	0.43
SC-247.02	20 min	0.73	20 min	0.89	20 min	1.00
SC-248.01	45 min	0.34	20 min	0.42	15 min	0.48
SC-249.01	45 min	0.07	45 min	0.10	25 min	0.10
SC-249.02	20 min	0.26	20 min	0.32	20 min	0.35
SC-249.03	10 min	0.63	10 min	0.70	20 min	0.75
SC-249.04	10 min	1.61	10 min	1.79	10 min	1.96
SC-249.05	10 min	4.71	10 min	5.24	10 min	5.79
SC-249.06	20 min	6.55	20 min	7.47	20 min	8.37
SC-25.01	10 min	0.76	10 min	0.84	10 min	0.92
SC-25.02	10 min	1.08	10 min	1.17	10 min	1.28
SC-25.03	10 min	1.19	10 min	1.29	10 min	1.41
SC-25.04	10 min	1.92	10 min	2.10	10 min	2.29
SC-250.01	10 min	0.09	10 min	0.10	10 min	0.10
SC-251.01	10 min	0.21	10 min	0.23	10 min	0.25
SC-252.01	10 min	0.24	10 min	0.25	10 min	0.28
SC-252.02	10 min	0.45	10 min	0.49	10 min	0.54
SC-253.01	10 min	0.34	10 min	0.39	10 min	0.43
SC-253.02	10 min	1.25	10 min	1.41	10 min	1.55
SC-253.03	10 min	1.53	10 min	1.72	10 min	1.88
SC-254.01	10 min	0.35	10 min	0.39	10 min	0.43
SC-255.01	10 min	0.31	10 min	0.36	10 min	0.39
SC-256.01	10 min	0.29	10 min	0.32	10 min	0.36
SC-257.01	10 min	0.17	10 min	0.19	10 min	0.20
SC-258.01	10 min	0.75	10 min	0.83	10 min	0.91
SC-258.02	20 min	1.14	20 min	1.29	20 min	1.42
SC-259.01	10 min	0.33	10 min	0.36	10 min	0.40

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	10 min	0.69	10 min	0.76	10 min	0.83
SC-259.03	10 min	0.97	10 min	1.07	10 min	1.18
SC-259.04	10 min	1.77	10 min	1.95	10 min	2.14
SC-259.05	10 min	2.18	10 min	2.40	10 min	2.64
SC-259.06	10 min	2.79	10 min	3.07	10 min	3.38
SC-259.07	10 min	3.67	10 min	4.05	10 min	4.45
SC-259.08	10 min	4.17	10 min	4.64	10 min	5.15
SC-259.09	20 min	9.30	20 min	10.67	20 min	12.05
SC-259.10	20 min	9.49	20 min	10.90	20 min	12.30
SC-26.01	10 min	0.23	10 min	0.26	10 min	0.28
SC-260.01	10 min	0.22	10 min	0.24	10 min	0.26
SC-261.01	10 min	0.29	10 min	0.32	10 min	0.35
SC-262.01	10 min	0.30	10 min	0.35	10 min	0.38
SC-262.02	10 min	0.58	10 min	0.64	10 min	0.70
SC-263.01	10 min	0.32	10 min	0.36	10 min	0.40
SC-264.01	10 min	0.19	10 min	0.21	10 min	0.23
SC-265.01	10 min	0.24	10 min	0.26	10 min	0.29
SC-265.02	20 min	0.56	20 min	0.64	20 min	0.71
SC-265.03	45 min	0.89	30 min	1.04	30 min	1.21
SC-265.04	20 min	4.16	20 min	4.69	20 min	5.28
SC-266.01	10 min	0.29	10 min	0.33	10 min	0.36
SC-266.02	10 min	0.59	10 min	0.64	10 min	0.70
SC-266.03	10 min	0.72	10 min	0.79	10 min	0.86
SC-266.04	10 min	2.60	20 min	2.83	20 min	3.17
SC-266.05	10 min	2.99	10 min	3.31	10 min	3.66
SC-267.01	10 min	0.29	10 min	0.33	10 min	0.36
SC-268.01	10 min	0.48	10 min	0.54	10 min	0.60
SC-268.02	10 min	1.27	10 min	1.41	10 min	1.54
SC-269.01	10 min	0.20	20 min	0.23	20 min	0.26
SC-27.01	10 min	0.23	10 min	0.26	20 min	0.28
SC-270.01	20 min	0.20	20 min	0.23	20 min	0.27
SC-271.01	20 min	0.13	20 min	0.15	20 min	0.17
SC-272.01	20 min	0.29	20 min	0.34	20 min	0.38
SC-272.02	20 min	0.65	20 min	0.78	20 min	0.88
SC-272.03	20 min	1.09	20 min	1.28	20 min	1.43
SC-273.01	20 min	0.31	20 min	0.35	20 min	0.39
SC-274.01	1 hour	0.15	1 hour	0.16	1 hour	0.18
SC-274.02	10 min	0.68	10 min	0.76	10 min	0.84
SC-274.03	10 min	1.65	10 min	1.83	10 min	2.01
SC-274.04	10 min	2.15	10 min	2.37	10 min	2.60
SC-274.05	20 min	2.60	20 min	2.94	10 min	3.39
SC-275.01	10 min	0.32	10 min	0.35	10 min	0.39
SC-276.01	10 min	0.24	10 min	0.27	10 min	0.29
SC-277.01	10 min	0.30	10 min	0.33	10 min	0.36

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	10 min	0.19	10 min	0.20	10 min	0.22
SC-278.02	20 min	1.95	20 min	2.33	15 min	2.60
SC-279.01	20 min	0.29	20 min	0.33	20 min	0.37
SC-279.02	20 min	1.91	15 min	2.18	15 min	2.47
SC-28.01	45 min	0.18	25 min	0.18	25 min	0.20
SC-28.02	20 min	0.42	20 min	0.48	20 min	0.53
SC-28.03	20 min	0.60	20 min	0.69	20 min	0.78
SC-28.04	10 min	1.35	10 min	1.50	20 min	1.63
SC-280.01	10 min	0.28	10 min	0.32	20 min	0.34
SC-29.01	10 min	0.23	10 min	0.26	10 min	0.28
SC-29.02	10 min	0.64	10 min	0.70	10 min	0.76
SC-3.01	20 min	0.24	20 min	0.29	20 min	0.32
SC-3.02	20 min	0.80	20 min	0.94	20 min	1.06
SC-30.01	10 min	0.41	10 min	0.46	10 min	0.50
SC-30.02	10 min	0.73	10 min	0.80	10 min	0.88
SC-30.03	10 min	1.00	10 min	1.10	10 min	1.21
SC-30.04	10 min	1.28	10 min	1.41	10 min	1.55
SC-31.01	10 min	0.26	20 min	0.29	20 min	0.32
SC-31.02	10 min	0.55	10 min	0.61	10 min	0.68
SC-32.01	45 min	0.21	20 min	0.24	20 min	0.27
SC-32.02	45 min	0.31	25 min	0.31	20 min	0.40
SC-33.01	10 min	0.34	10 min	0.38	10 min	0.42
SC-33.02	10 min	0.77	10 min	0.85	10 min	0.93
SC-34.01	10 min	0.26	10 min	0.29	10 min	0.32
SC-34.02	10 min	0.53	10 min	0.58	10 min	0.64
SC-34.03	10 min	0.65	10 min	0.71	10 min	0.77
SC-35.01	10 min	0.25	10 min	0.28	10 min	0.30
SC-35.02	10 min	0.71	10 min	0.77	10 min	0.84
SC-35.03	10 min	1.14	10 min	1.23	10 min	1.34
SC-35.04	10 min	1.23	10 min	1.32	10 min	1.44
SC-36.01	10 min	0.52	10 min	0.58	10 min	0.63
SC-36.02	10 min	0.94	10 min	1.04	10 min	1.15
SC-37.01	10 min	0.21	10 min	0.22	10 min	0.25
SC-37.02	10 min	0.57	10 min	0.62	10 min	0.68
SC-38.01	10 min	0.24	10 min	0.26	10 min	0.29
SC-39.01	10 min	0.14	10 min	0.15	10 min	0.17
SC-4.01	45 min	0.26	20 min	0.29	20 min	0.34
SC-40.01	10 min	0.32	10 min	0.34	10 min	0.38
SC-41.01	10 min	0.22	10 min	0.23	10 min	0.26
SC-42.01	10 min	0.70	10 min	0.77	10 min	0.85
SC-43.01	10 min	0.16	10 min	0.17	10 min	0.19
SC-44.01	10 min	0.48	10 min	0.54	10 min	0.59
SC-44.02	10 min	0.78	10 min	0.85	10 min	0.93
SC-44.03	10 min	1.04	10 min	1.15	10 min	1.26

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	10 min	1.56	10 min	1.73	10 min	1.91
SC-44.05	10 min	2.78	10 min	3.07	10 min	3.38
SC-44.06	10 min	2.97	10 min	3.27	10 min	3.58
SC-44.07	20 min	2.49	20 min	2.68	20 min	3.09
SC-44.08	10 min	3.27	20 min	3.53	20 min	3.92
SC-44.09	20 min	3.53	20 min	3.89	20 min	4.23
SC-44.10	4.50 hours	0.68	4.50 hours	0.69	4.50 hours	0.71
SC-44.11	2 hours	3.81	2 hours	5.02	2 hours	5.64
SC-44.12	24 hours	1.41	24 hours	1.50	24 hours	1.65
SC-44.13	24 hours	1.38	24 hours	1.48	24 hours	1.60
SC-44.14	24 hours	1.36	24 hours	1.46	24 hours	1.63
SC-44.15	15 min	1.92	20 min	2.04	24 hours	2.14
SC-44.16	45 min	2.01	45 min	2.10	24 hours	2.17
SC-44.17	20 min	4.57	20 min	4.93	20 min	5.38
SC-44.18	20 min	4.62	20 min	5.00	20 min	5.47
SC-44.19	20 min	5.10	20 min	5.65	20 min	6.20
SC-44.20	45 min	5.11	45 min	5.68	45 min	6.24
SC-45.01	10 min	0.34	10 min	0.39	10 min	0.43
SC-46.01	10 min	0.29	10 min	0.33	10 min	0.36
SC-46.02	10 min	0.49	10 min	0.54	10 min	0.59
SC-46.03	10 min	0.73	10 min	0.81	10 min	0.90
SC-46.04	10 min	0.83	10 min	0.92	10 min	1.01
SC-47.01	10 min	0.46	10 min	0.52	10 min	0.57
SC-48.01	10 min	0.35	10 min	0.40	10 min	0.44
SC-48.02	10 min	0.55	10 min	0.61	10 min	0.68
SC-49.01	10 min	0.41	10 min	0.45	10 min	0.50
SC-5.01	10 min	0.25	10 min	0.27	10 min	0.30
SC-50.01	10 min	0.14	15 min	0.15	10 min	0.17
SC-51.01	10 min	0.14	10 min	0.16	10 min	0.17
SC-52.01	10 min	0.15	10 min	0.16	10 min	0.18
SC-53.01	10 min	0.34	10 min	0.39	10 min	0.42
SC-53.02	10 min	0.69	10 min	0.77	10 min	0.86
SC-53.03	10 min	0.85	10 min	0.93	10 min	1.02
SC-54.01	10 min	0.28	10 min	0.32	10 min	0.35
SC-54.02	10 min	0.53	10 min	0.59	10 min	0.65
SC-55.01	10 min	0.44	10 min	0.49	10 min	0.54
SC-56.01	10 min	0.20	10 min	0.22	10 min	0.24
SC-57.01	20 min	0.14	20 min	0.16	20 min	0.18
SC-58.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-59.01	10 min	0.36	10 min	0.41	10 min	0.46
SC-59.02	10 min	0.72	10 min	0.80	10 min	0.88
SC-59.03	10 min	1.04	10 min	1.15	10 min	1.28
SC-59.04	10 min	1.33	10 min	1.47	10 min	1.63
SC-59.05	10 min	2.79	10 min	3.11	10 min	3.45

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	10 min	3.30	10 min	3.64	10 min	4.03
SC-59.07	10 min	5.49	10 min	6.12	20 min	6.69
SC-59.08	45 min	5.09	20 min	5.68	20 min	6.23
SC-59.09	45 min	6.08	45 min	6.84	45 min	7.76
SC-59.10	2 hours	3.73	1 hour	5.21	1 hour	6.17
SC-6.01	10 min	0.32	10 min	0.37	10 min	0.40
SC-60.01	20 min	0.23	20 min	0.27	20 min	0.30
SC-60.02	10 min	0.99	20 min	1.07	20 min	1.21
SC-61.01	15 min	0.54	20 min	0.56	20 min	0.63
SC-62.01	10 min	0.34	10 min	0.38	10 min	0.42
SC-63.01	20 min	0.17	20 min	0.20	20 min	0.23
SC-64.01	10 min	0.25	10 min	0.28	10 min	0.30
SC-64.02	10 min	0.84	10 min	0.94	10 min	1.03
SC-64.03	10 min	1.57	10 min	1.75	10 min	1.94
SC-64.04	10 min	2.15	20 min	2.34	20 min	2.62
SC-65.01	10 min	0.20	10 min	0.21	10 min	0.23
SC-66.01	10 min	0.16	15 min	0.17	10 min	0.19
SC-66.02	20 min	0.31	20 min	0.38	20 min	0.43
SC-67.01	10 min	0.29	10 min	0.32	10 min	0.35
SC-68.01	10 min	0.39	10 min	0.43	10 min	0.48
SC-68.02	10 min	0.73	10 min	0.80	10 min	0.89
SC-68.03	10 min	1.34	10 min	1.49	10 min	1.63
SC-69.01	10 min	0.34	10 min	0.38	10 min	0.41
SC-7.01	10 min	0.42	10 min	0.47	10 min	0.52
SC-70.01	10 min	0.31	10 min	0.35	10 min	0.38
SC-70.02	10 min	0.49	10 min	0.54	10 min	0.59
SC-71.01	10 min	0.38	10 min	0.43	10 min	0.48
SC-71.02	10 min	0.73	10 min	0.81	10 min	0.89
SC-72.01	10 min	0.42	10 min	0.47	10 min	0.51
SC-73.01	10 min	0.33	10 min	0.37	10 min	0.41
SC-74.01	10 min	0.38	10 min	0.43	10 min	0.48
SC-75.01	20 min	0.22	20 min	0.24	20 min	0.28
SC-75.02	20 min	0.86	20 min	0.96	20 min	1.09
SC-75.03	10 min	1.28	20 min	1.39	20 min	1.57
SC-75.04	10 min	2.26	10 min	2.50	20 min	2.73
SC-76.01	20 min	0.27	20 min	0.32	20 min	0.36
SC-77.01	10 min	0.46	10 min	0.51	10 min	0.56
SC-77.02	10 min	0.70	10 min	0.78	10 min	0.85
SC-77.03	10 min	0.98	10 min	1.08	10 min	1.18
SC-78.01	10 min	0.43	10 min	0.48	10 min	0.53
SC-79.01	10 min	0.50	10 min	0.53	10 min	0.58
SC-79.02	10 min	0.90	10 min	0.97	10 min	1.06
SC-79.03	10 min	1.90	10 min	2.09	10 min	2.30
SC-8.01	10 min	0.35	10 min	0.40	10 min	0.44

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	10 min	0.86	10 min	0.96	10 min	1.07
SC-8.03	10 min	2.27	10 min	2.50	10 min	2.76
SC-8.04	10 min	3.96	10 min	4.38	10 min	4.83
SC-8.05	10 min	4.39	10 min	4.85	10 min	5.32
SC-8.06	10 min	4.63	10 min	5.11	10 min	5.60
SC-80.01	10 min	0.46	10 min	0.51	10 min	0.56
SC-80.02	10 min	0.89	10 min	0.99	10 min	1.08
SC-81.01	10 min	0.33	10 min	0.37	10 min	0.40
SC-81.02	10 min	0.98	10 min	1.08	10 min	1.18
SC-82.01	10 min	0.40	10 min	0.45	10 min	0.49
SC-83.01	10 min	0.25	10 min	0.28	10 min	0.31
SC-84.01	10 min	0.38	10 min	0.42	10 min	0.46
SC-84.02	10 min	0.92	10 min	1.03	10 min	1.13
SC-84.03	10 min	1.20	10 min	1.34	10 min	1.47
SC-84.04	10 min	1.43	10 min	1.58	10 min	1.74
SC-84.05	10 min	1.73	10 min	1.91	10 min	2.09
SC-84.06	10 min	1.93	10 min	2.13	10 min	2.33
SC-85.01	10 min	0.24	10 min	0.26	10 min	0.29
SC-86.01	10 min	0.35	10 min	0.40	10 min	0.44
SC-86.02	10 min	0.70	10 min	0.77	10 min	0.85
SC-87.01	10 min	0.53	10 min	0.58	10 min	0.64
SC-87.02	10 min	0.91	10 min	0.99	10 min	1.08
SC-88.01	10 min	0.24	10 min	0.26	10 min	0.29
SC-88.02	10 min	0.38	10 min	0.42	10 min	0.46
SC-89.01	10 min	0.26	10 min	0.28	10 min	0.31
SC-89.02	10 min	0.28	10 min	0.30	10 min	0.33
SC-9.01	10 min	0.33	10 min	0.38	10 min	0.41
SC-90.01	10 min	0.10	10 min	0.11	10 min	0.12
SC-91.01	10 min	0.30	10 min	0.34	10 min	0.38
SC-91.02	10 min	0.62	10 min	0.70	10 min	0.77
SC-92.01	10 min	0.30	10 min	0.33	10 min	0.36
SC-92.02	10 min	0.83	10 min	0.92	10 min	1.02
SC-93.01	10 min	0.32	10 min	0.37	10 min	0.40
SC-94.01	10 min	0.37	10 min	0.41	10 min	0.45
SC-94.02	10 min	0.85	10 min	0.94	10 min	1.03
SC-95.01	10 min	0.22	10 min	0.24	10 min	0.27
SC-95.02	10 min	0.53	10 min	0.59	10 min	0.64
SC-96.01	10 min	0.25	10 min	0.27	10 min	0.30
SC-97.01	10 min	0.17	10 min	0.18	10 min	0.20
SC-97.02	10 min	0.96	10 min	1.04	10 min	1.15
SC-98.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-99.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-99.02	10 min	0.73	10 min	0.82	10 min	0.90
SC-99.03	10 min	1.27	10 min	1.41	10 min	1.57

Climate Change Sensitivity Results for 20% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	10 min	3.36	10 min	3.68	10 min	4.03
Dummy1	20 min	14.66	20 min	16.71	20 min	19.08
Dummy2	45 min	26.92	45 min	30.47	45 min	34.00
Dummy3	45 min	55.30	45 min	62.03	45 min	68.79
DummyOut	45 min	57.46	45 min	64.61	45 min	71.34

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.93	10 min	1.02	10 min	1.13
SC-1.02	10 min	2.00	10 min	2.23	10 min	2.45
SC-1.03	10 min	2.38	10 min	2.61	10 min	2.86
SC-1.04	10 min	6.27	10 min	6.90	10 min	7.58
SC-1.05	10 min	6.82	10 min	7.51	10 min	8.25
SC-1.06	10 min	7.79	10 min	8.58	10 min	9.44
SC-1.07	10 min	7.91	10 min	8.77	10 min	9.67
SC-1.08	45 min	8.71	45 min	9.95	45 min	11.29
SC-1.09	45 min	9.35	45 min	10.62	45 min	11.98
SC-1.10	45 min	9.36	45 min	10.63	45 min	12.00
SC-1.11	10 min	13.59	10 min	14.95	10 min	16.42
SC-1.12	10 min	16.99	10 min	18.72	10 min	20.58
SC-1.13	10 min	19.43	10 min	21.41	10 min	23.56
SC-1.14	10 min	23.13	10 min	25.54	10 min	28.13
SC-1.15	10 min	25.02	10 min	27.63	10 min	30.45
SC-1.16	15 min	28.64	15 min	31.57	15 min	34.76
SC-1.17	15 min	28.95	15 min	31.96	15 min	35.18
SC-1.18	30 min	18.10	45 min	19.89	45 min	21.38
SC-1.19	1 hour	22.75	1 hour	25.56	1 hour	28.00
SC-1.20	1 hour	20.73	1 hour	23.00	1 hour	24.05
SC-1.21	1 hour	20.74	1 hour	23.02	1.50 hour	24.18
SC-1.22	1.50 hour	20.92	1 hour	23.09	1.50 hour	24.86
SC-1.23	1.50 hour	23.45	1.50 hour	26.34	1.50 hour	29.03
SC-1.24	20 min	31.77	20 min	34.65	20 min	37.73
SC-1.25	25 min	32.54	25 min	35.55	15 min	38.43
SC-1.26	25 min	35.37	25 min	38.76	25 min	42.42
SC-1.27	25 min	35.95	25 min	39.47	25 min	43.36
SC-1.28	15 min	47.23	15 min	51.97	15 min	57.08
SC-1.29	25 min	49.56	25 min	54.57	25 min	59.97
SC-1.30	25 min	50.66	25 min	55.94	25 min	61.46
SC-1.31	25 min	51.58	25 min	56.73	25 min	62.30
SC-1.32	25 min	52.64	25 min	57.88	25 min	63.55
SC-1.33	30 min	54.45	30 min	59.82	30 min	65.56
SC-1.34	30 min	54.52	30 min	59.89	30 min	65.63
SC-1.35	30 min	54.65	30 min	60.09	30 min	65.94
SC-1.36	30 min	57.49	30 min	63.31	30 min	69.55
SC-10.01	10 min	0.97	10 min	1.06	10 min	1.16
SC-100.01	10 min	1.14	10 min	1.25	10 min	1.37
SC-100.02	10 min	1.95	10 min	2.14	10 min	2.35
SC-101.01	10 min	1.18	10 min	1.30	10 min	1.44
SC-101.02	10 min	2.05	10 min	2.25	10 min	2.48
SC-102.01	10 min	0.94	10 min	1.03	10 min	1.13
SC-102.02	10 min	3.50	10 min	3.85	10 min	4.24
SC-103.01	10 min	0.63	10 min	0.69	10 min	0.75

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	10 min	2.17	10 min	2.39	10 min	2.63
SC-104.01	10 min	0.56	10 min	0.62	10 min	0.67
SC-105.01	10 min	0.60	10 min	0.66	10 min	0.73
SC-105.02	10 min	1.41	10 min	1.55	10 min	1.71
SC-105.03	10 min	3.29	10 min	3.63	10 min	3.99
SC-105.04	10 min	4.44	10 min	4.87	10 min	5.33
SC-105.05	10 min	5.26	10 min	5.81	10 min	6.42
SC-105.06	10 min	5.54	10 min	6.15	10 min	6.81
SC-105.07	15 min	8.11	15 min	9.02	10 min	10.07
SC-105.08	15 min	9.32	15 min	10.38	15 min	11.45
SC-105.09	10 min	12.28	10 min	13.56	10 min	14.97
SC-106.01	10 min	0.44	10 min	0.48	10 min	0.52
SC-107.01	10 min	0.76	10 min	0.84	10 min	0.92
SC-108.01	10 min	0.56	10 min	0.62	10 min	0.67
SC-109.01	10 min	0.73	10 min	0.80	10 min	0.87
SC-11.01	10 min	0.59	10 min	0.65	10 min	0.72
SC-110.01	10 min	0.67	10 min	0.74	10 min	0.81
SC-110.02	10 min	1.50	10 min	1.65	10 min	1.82
SC-110.03	10 min	1.64	10 min	1.79	10 min	1.96
SC-111.01	20 min	0.45	15 min	0.50	15 min	0.55
SC-112.01	10 min	1.13	10 min	1.24	10 min	1.36
SC-113.01	10 min	0.41	10 min	0.45	10 min	0.49
SC-113.02	10 min	1.30	10 min	1.43	10 min	1.58
SC-114.01	10 min	0.71	10 min	0.79	10 min	0.87
SC-114.02	10 min	1.14	10 min	1.25	10 min	1.37
SC-114.03	10 min	2.34	10 min	2.58	10 min	2.84
SC-115.01	10 min	0.65	10 min	0.71	10 min	0.78
SC-115.02	10 min	1.04	10 min	1.14	10 min	1.26
SC-116.01	10 min	0.64	10 min	0.71	10 min	0.77
SC-116.02	10 min	1.03	10 min	1.13	10 min	1.24
SC-117.01	10 min	0.38	10 min	0.41	10 min	0.45
SC-118.01	10 min	0.83	10 min	0.91	10 min	1.00
SC-119.01	10 min	1.26	10 min	1.39	10 min	1.53
SC-119.02	10 min	3.14	10 min	3.45	10 min	3.78
SC-12.01	10 min	0.69	10 min	0.75	10 min	0.82
SC-12.02	10 min	1.20	10 min	1.32	10 min	1.45
SC-12.03	10 min	2.19	10 min	2.39	10 min	2.62
SC-12.04	10 min	2.79	10 min	3.06	10 min	3.35
SC-120.01	10 min	0.57	10 min	0.62	10 min	0.68
SC-121.01	10 min	0.71	10 min	0.78	10 min	0.85
SC-122.01	10 min	1.16	10 min	1.27	10 min	1.39
SC-122.02	10 min	1.79	10 min	1.97	10 min	2.16
SC-122.03	10 min	2.41	10 min	2.66	10 min	2.92
SC-123.01	10 min	0.58	10 min	0.64	10 min	0.71

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	10 min	1.62	10 min	1.79	10 min	1.97
SC-123.03	10 min	10.91	10 min	11.98	10 min	13.20
SC-123.04	10 min	11.19	10 min	12.28	10 min	13.46
SC-123.05	10 min	14.12	10 min	15.62	10 min	17.26
SC-123.06	10 min	14.54	10 min	16.04	10 min	17.59
SC-123.07	10 min	15.60	10 min	17.19	10 min	18.90
SC-124.01	20 min	0.70	20 min	0.78	20 min	0.87
SC-124.02	20 min	4.51	20 min	4.99	20 min	5.51
SC-125.01	20 min	0.97	20 min	1.07	20 min	1.18
SC-126.01	10 min	0.54	10 min	0.59	10 min	0.65
SC-126.02	20 min	1.30	20 min	1.44	20 min	1.61
SC-126.03	20 min	2.40	20 min	2.64	20 min	2.91
SC-127.01	10 min	1.28	10 min	1.41	10 min	1.54
SC-127.02	10 min	3.43	10 min	3.76	10 min	4.12
SC-128.01	10 min	1.25	10 min	1.38	10 min	1.52
SC-129.01	10 min	0.61	10 min	0.67	10 min	0.73
SC-13.01	10 min	0.63	10 min	0.69	10 min	0.76
SC-130.01	10 min	0.94	10 min	1.03	10 min	1.13
SC-131.01	10 min	0.37	10 min	0.41	10 min	0.44
SC-132.01	10 min	0.52	10 min	0.57	10 min	0.62
SC-133.01	10 min	0.38	10 min	0.42	10 min	0.46
SC-134.01	10 min	0.32	10 min	0.35	10 min	0.38
SC-134.02	10 min	1.02	10 min	1.13	10 min	1.25
SC-134.03	10 min	2.07	10 min	2.31	10 min	2.56
SC-134.04	10 min	2.93	10 min	3.29	10 min	3.68
SC-135.01	10 min	0.25	10 min	0.28	10 min	0.30
SC-135.02	10 min	1.39	10 min	1.54	10 min	1.69
SC-135.03	10 min	1.83	10 min	2.02	10 min	2.22
SC-135.04	10 min	4.06	10 min	4.47	10 min	4.93
SC-135.05	10 min	4.60	10 min	5.07	10 min	5.58
SC-135.06	10 min	7.50	10 min	8.28	10 min	9.10
SC-136.01	10 min	0.76	10 min	0.84	10 min	0.92
SC-137.01	10 min	0.77	10 min	0.85	10 min	0.94
SC-138.01	10 min	0.92	10 min	1.02	10 min	1.12
SC-139.01	10 min	0.90	10 min	0.99	10 min	1.09
SC-139.02	10 min	1.09	10 min	1.21	10 min	1.32
SC-14.01	10 min	1.11	10 min	1.22	10 min	1.34
SC-14.02	10 min	1.69	10 min	1.86	10 min	2.04
SC-14.03	10 min	2.21	10 min	2.43	10 min	2.66
SC-140.01	10 min	0.64	10 min	0.70	10 min	0.77
SC-141.01	10 min	1.04	10 min	1.15	10 min	1.26
SC-142.01	20 min	1.55	20 min	1.71	20 min	1.90
SC-143.01	20 min	0.61	20 min	0.68	20 min	0.75
SC-143.02	10 min	4.94	10 min	5.49	10 min	6.08

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	10 min	0.73	10 min	0.81	10 min	0.89
SC-144.02	10 min	1.04	10 min	1.15	10 min	1.27
SC-144.03	10 min	1.38	10 min	1.52	10 min	1.68
SC-144.04	10 min	2.44	10 min	2.70	10 min	2.98
SC-144.05	10 min	4.60	10 min	5.08	10 min	5.60
SC-145.01	10 min	0.94	10 min	1.04	10 min	1.15
SC-145.02	10 min	1.74	10 min	1.91	10 min	2.10
SC-146.01	15 min	1.75	15 min	1.95	15 min	2.16
SC-147.01	10 min	0.92	10 min	1.03	10 min	1.14
SC-147.02	10 min	1.25	10 min	1.40	10 min	1.56
SC-147.03	10 min	3.19	10 min	3.54	10 min	3.90
SC-148.01	10 min	0.78	10 min	0.86	10 min	0.94
SC-148.02	10 min	1.67	10 min	1.84	10 min	2.01
SC-149.01	10 min	0.56	10 min	0.62	10 min	0.68
SC-149.02	10 min	1.83	10 min	2.01	10 min	2.21
SC-15.01	10 min	1.13	10 min	1.24	10 min	1.36
SC-15.02	10 min	1.48	10 min	1.62	10 min	1.78
SC-15.03	10 min	2.33	10 min	2.57	10 min	2.82
SC-150.01	10 min	0.68	10 min	0.74	10 min	0.81
SC-150.02	10 min	1.31	10 min	1.44	10 min	1.59
SC-150.03	10 min	3.32	10 min	3.66	10 min	4.03
SC-150.04	10 min	4.30	10 min	4.72	10 min	5.18
SC-150.05	10 min	5.94	10 min	6.55	10 min	7.21
SC-150.06	10 min	11.00	10 min	12.08	10 min	13.25
SC-150.07	10 min	17.06	10 min	18.73	10 min	20.56
SC-150.08	2 hours	9.68	2 hours	12.54	45 min	13.26
SC-150.09	2 hours	10.19	2 hours	12.93	45 min	13.97
SC-150.10	2 hours	12.14	2 hours	15.91	45 min	17.35
SC-150.11	10 min	18.60	10 min	20.47	10 min	22.48
SC-150.12	10 min	29.36	10 min	32.33	10 min	35.54
SC-150.13	15 min	33.27	15 min	36.66	15 min	40.32
SC-150.14	15 min	49.84	15 min	55.18	15 min	60.92
SC-150.15	15 min	50.19	15 min	55.55	15 min	61.31
SC-150.16	15 min	52.64	15 min	58.27	15 min	64.31
SC-150.17	15 min	53.46	15 min	59.10	15 min	65.19
SC-151.01	10 min	0.91	10 min	1.00	10 min	1.10
SC-151.02	10 min	1.38	10 min	1.53	10 min	1.67
SC-152.01	10 min	0.80	10 min	0.88	10 min	0.97
SC-153.01	10 min	0.65	10 min	0.71	10 min	0.77
SC-153.02	10 min	1.52	10 min	1.66	10 min	1.83
SC-154.01	10 min	1.19	10 min	1.32	10 min	1.45
SC-154.02	10 min	3.98	10 min	4.37	10 min	4.79
SC-155.01	10 min	0.43	10 min	0.48	10 min	0.53
SC-155.02	10 min	1.25	10 min	1.38	10 min	1.51

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	10 min	0.49	10 min	0.54	10 min	0.59
SC-157.01	10 min	0.57	10 min	0.63	10 min	0.68
SC-158.01	10 min	0.77	10 min	0.85	10 min	0.93
SC-158.02	10 min	0.98	10 min	1.08	10 min	1.19
SC-158.03	10 min	2.13	10 min	2.35	10 min	2.58
SC-158.04	10 min	3.96	10 min	4.35	10 min	4.78
SC-159.01	10 min	0.61	10 min	0.67	10 min	0.73
SC-16.01	10 min	0.73	10 min	0.81	10 min	0.88
SC-160.01	10 min	0.59	10 min	0.65	10 min	0.71
SC-160.02	10 min	1.32	10 min	1.45	10 min	1.59
SC-161.01	10 min	0.72	10 min	0.79	10 min	0.87
SC-161.02	10 min	1.36	10 min	1.50	10 min	1.64
SC-162.01	10 min	0.84	10 min	0.93	10 min	1.02
SC-163.01	10 min	0.47	10 min	0.53	10 min	0.59
SC-163.02	10 min	0.90	10 min	1.00	10 min	1.11
SC-163.03	10 min	1.48	10 min	1.63	10 min	1.79
SC-163.04	10 min	2.11	10 min	2.32	10 min	2.54
SC-163.05	10 min	3.65	10 min	4.01	10 min	4.39
SC-164.01	10 min	0.72	10 min	0.80	10 min	0.88
SC-165.01	10 min	0.62	10 min	0.68	10 min	0.75
SC-165.02	10 min	1.60	10 min	1.77	10 min	1.94
SC-165.03	10 min	2.09	10 min	2.30	10 min	2.53
SC-165.04	10 min	4.46	10 min	4.91	10 min	5.41
SC-165.05	10 min	7.50	10 min	8.26	10 min	9.08
SC-166.01	10 min	0.56	10 min	0.62	10 min	0.68
SC-167.01	10 min	0.85	10 min	0.93	10 min	1.02
SC-167.02	10 min	2.15	10 min	2.35	10 min	2.58
SC-168.01	10 min	0.70	10 min	0.77	10 min	0.84
SC-169.01	10 min	0.63	10 min	0.68	10 min	0.75
SC-169.02	10 min	1.16	10 min	1.28	10 min	1.41
SC-169.03	10 min	2.62	10 min	2.87	10 min	3.15
SC-17.01	10 min	0.64	10 min	0.71	10 min	0.77
SC-17.02	10 min	1.10	10 min	1.21	10 min	1.33
SC-17.03	10 min	1.84	10 min	2.03	10 min	2.23
SC-17.04	10 min	4.38	10 min	4.82	10 min	5.31
SC-17.05	10 min	6.01	10 min	6.62	10 min	7.29
SC-17.06	10 min	6.75	10 min	7.44	10 min	8.20
SC-17.07	10 min	7.26	10 min	8.01	10 min	8.82
SC-170.01	10 min	0.57	10 min	0.63	10 min	0.70
SC-171.01	10 min	0.41	10 min	0.45	10 min	0.50
SC-172.01	10 min	0.82	10 min	0.90	10 min	0.99
SC-172.02	10 min	1.38	10 min	1.51	10 min	1.66
SC-173.01	20 min	0.89	20 min	1.00	20 min	1.13
SC-173.02	20 min	1.79	20 min	2.01	20 min	2.24

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	20 min	1.85	20 min	2.06	20 min	2.29
SC-173.04	10 min	3.07	10 min	3.38	20 min	3.71
SC-173.05	10 min	3.58	10 min	3.94	10 min	4.33
SC-174.01	10 min	0.53	10 min	0.58	10 min	0.63
SC-175.01	10 min	0.92	10 min	1.00	10 min	1.10
SC-175.02	10 min	1.86	10 min	2.05	10 min	2.25
SC-175.03	10 min	2.99	10 min	3.29	10 min	3.61
SC-175.04	10 min	3.67	10 min	4.04	10 min	4.44
SC-175.05	10 min	4.12	10 min	4.54	10 min	4.99
SC-176.01	10 min	0.38	10 min	0.42	10 min	0.46
SC-177.01	10 min	0.51	10 min	0.56	10 min	0.61
SC-177.02	10 min	1.34	10 min	1.48	10 min	1.63
SC-177.03	10 min	3.68	10 min	4.05	10 min	4.44
SC-177.04	10 min	5.02	10 min	5.55	10 min	6.11
SC-178.01	10 min	1.12	10 min	1.23	10 min	1.35
SC-178.02	10 min	1.66	10 min	1.83	10 min	2.02
SC-179.01	10 min	0.91	10 min	1.00	10 min	1.10
SC-18.01	10 min	0.71	10 min	0.77	10 min	0.85
SC-18.02	10 min	1.11	10 min	1.21	10 min	1.34
SC-180.01	10 min	0.88	10 min	0.97	10 min	1.07
SC-180.02	10 min	1.49	10 min	1.64	10 min	1.81
SC-180.03	10 min	2.09	10 min	2.31	10 min	2.54
SC-180.04	10 min	3.02	10 min	3.32	10 min	3.65
SC-181.01	20 min	0.38	20 min	0.42	20 min	0.46
SC-181.02	10 min	1.25	10 min	1.38	10 min	1.51
SC-181.03	10 min	2.04	10 min	2.26	10 min	2.49
SC-181.04	10 min	3.79	10 min	4.20	10 min	4.62
SC-181.05	10 min	4.08	10 min	4.50	10 min	4.96
SC-181.06	10 min	4.55	10 min	5.02	10 min	5.52
SC-181.07	10 min	10.03	10 min	11.05	10 min	12.16
SC-181.08	10 min	10.40	10 min	11.47	10 min	12.62
SC-182.01	10 min	0.62	10 min	0.68	10 min	0.75
SC-182.02	10 min	1.00	10 min	1.11	10 min	1.21
SC-182.03	10 min	1.56	10 min	1.72	10 min	1.89
SC-183.01	10 min	0.59	10 min	0.65	10 min	0.71
SC-183.02	10 min	1.34	10 min	1.48	10 min	1.63
SC-183.03	10 min	3.32	10 min	3.66	10 min	4.04
SC-183.04	10 min	3.79	10 min	4.18	10 min	4.59
SC-184.01	10 min	1.43	10 min	1.58	10 min	1.74
SC-185.01	10 min	0.86	10 min	0.94	10 min	1.03
SC-185.02	10 min	1.89	10 min	2.08	10 min	2.29
SC-186.01	10 min	0.30	10 min	0.33	10 min	0.36
SC-187.01	10 min	0.87	10 min	0.95	10 min	1.04
SC-187.02	10 min	1.67	10 min	1.84	10 min	2.02

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	10 min	1.97	10 min	2.16	10 min	2.37
SC-187.04	10 min	2.46	10 min	2.70	10 min	2.97
SC-187.05	10 min	2.93	10 min	3.22	10 min	3.53
SC-188.01	10 min	0.91	10 min	1.00	10 min	1.09
SC-188.02	10 min	1.33	10 min	1.46	10 min	1.61
SC-189.01	10 min	1.03	10 min	1.13	10 min	1.24
SC-189.02	10 min	1.83	10 min	2.00	10 min	2.19
SC-19.01	10 min	0.41	10 min	0.45	10 min	0.50
SC-190.01	10 min	0.45	10 min	0.49	10 min	0.54
SC-191.01	10 min	0.83	10 min	0.91	10 min	0.99
SC-191.02	10 min	1.19	10 min	1.30	10 min	1.42
SC-191.03	10 min	2.18	10 min	2.41	10 min	2.65
SC-191.04	10 min	3.18	10 min	3.52	10 min	3.88
SC-191.05	10 min	4.45	10 min	4.90	10 min	5.38
SC-191.06	10 min	7.65	10 min	8.40	10 min	9.20
SC-191.07	10 min	9.11	10 min	10.02	10 min	11.00
SC-191.08	10 min	9.97	10 min	10.99	10 min	12.10
SC-192.01	10 min	2.59	10 min	2.86	10 min	3.16
SC-193.01	10 min	1.18	10 min	1.30	10 min	1.43
SC-194.01	10 min	1.18	10 min	1.29	10 min	1.43
SC-194.02	20 min	4.77	20 min	5.39	20 min	6.04
SC-194.03	20 min	4.95	20 min	5.60	20 min	6.28
SC-195.01	20 min	1.67	20 min	1.88	20 min	2.11
SC-196.01	10 min	3.86	10 min	4.28	10 min	4.74
SC-197.01	10 min	2.47	10 min	2.75	10 min	3.07
SC-198.01	20 min	2.40	20 min	2.64	15 min	2.96
SC-2.01	10 min	0.53	10 min	0.59	10 min	0.66
SC-20.01	10 min	0.56	10 min	0.61	10 min	0.67
SC-200.01	10 min	0.80	10 min	0.88	10 min	0.97
SC-200.02	10 min	1.41	10 min	1.55	10 min	1.70
SC-200.03	10 min	2.63	10 min	2.90	10 min	3.20
SC-200.04	10 min	3.84	10 min	4.24	10 min	4.68
SC-200.05	10 min	6.29	10 min	6.95	10 min	7.65
SC-200.06	10 min	9.51	10 min	10.60	10 min	11.77
SC-200.07	10 min	11.17	10 min	12.46	10 min	13.84
SC-200.08	10 min	12.58	10 min	14.07	10 min	15.66
SC-200.09	15 min	18.58	10 min	20.86	10 min	23.31
SC-201.01	10 min	1.02	10 min	1.13	10 min	1.24
SC-202.01	10 min	1.05	10 min	1.16	10 min	1.27
SC-203.01	10 min	1.04	10 min	1.14	10 min	1.26
SC-204.01	10 min	1.36	10 min	1.51	10 min	1.67
SC-205.01	20 min	0.55	20 min	0.61	20 min	0.67
SC-206.01	10 min	4.38	10 min	4.94	10 min	5.53
SC-207.01	10 min	0.98	10 min	1.08	10 min	1.19

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	10 min	1.89	10 min	2.09	10 min	2.30
SC-207.03	10 min	2.11	10 min	2.33	10 min	2.58
SC-207.04	10 min	5.77	10 min	6.35	10 min	6.97
SC-207.05	10 min	7.61	10 min	8.37	10 min	9.21
SC-207.06	10 min	8.34	10 min	9.19	10 min	10.11
SC-207.07	10 min	13.97	10 min	15.48	10 min	17.11
SC-207.08	10 min	20.74	10 min	22.95	10 min	25.34
SC-207.09	10 min	23.77	10 min	26.34	10 min	29.09
SC-207.10	15 min	24.60	15 min	27.21	15 min	30.04
SC-207.11	15 min	26.60	15 min	29.45	15 min	32.49
SC-207.12	15 min	38.54	15 min	42.61	15 min	46.97
SC-207.13	15 min	40.73	15 min	45.04	15 min	49.66
SC-207.14	15 min	41.81	15 min	46.25	15 min	51.00
SC-208.01	10 min	1.08	10 min	1.18	10 min	1.29
SC-208.02	10 min	1.51	10 min	1.65	10 min	1.81
SC-208.03	10 min	2.00	10 min	2.20	10 min	2.41
SC-208.04	10 min	3.12	10 min	3.43	10 min	3.75
SC-208.05	10 min	3.57	10 min	3.92	10 min	4.31
SC-209.01	10 min	0.66	10 min	0.73	10 min	0.79
SC-21.01	10 min	0.80	10 min	0.88	10 min	0.96
SC-210.01	10 min	1.49	10 min	1.64	10 min	1.80
SC-210.02	10 min	2.04	10 min	2.25	10 min	2.47
SC-211.01	20 min	0.56	20 min	0.63	20 min	0.71
SC-211.02	25 min	1.25	25 min	1.41	20 min	1.55
SC-211.03	20 min	1.92	20 min	2.17	20 min	2.45
SC-211.04	20 min	2.29	20 min	2.58	20 min	2.90
SC-212.01	1 hour	0.21	1 hour	0.24	45 min	0.26
SC-212.02	20 min	0.43	20 min	0.48	20 min	0.53
SC-213.01	10 min	0.62	10 min	0.67	10 min	0.74
SC-213.02	10 min	1.02	10 min	1.12	10 min	1.23
SC-214.01	10 min	0.76	10 min	0.83	10 min	0.91
SC-214.02	10 min	1.64	10 min	1.80	10 min	1.96
SC-215.01	10 min	0.60	10 min	0.67	10 min	0.73
SC-215.02	10 min	1.08	10 min	1.19	10 min	1.31
SC-216.01	10 min	0.58	10 min	0.63	10 min	0.69
SC-216.02	10 min	1.73	10 min	1.89	10 min	2.07
SC-216.03	10 min	2.69	10 min	2.95	10 min	3.25
SC-216.04	10 min	3.73	10 min	4.12	10 min	4.53
SC-217.01	10 min	0.41	10 min	0.45	10 min	0.49
SC-218.01	10 min	0.31	10 min	0.34	10 min	0.37
SC-219.01	10 min	0.41	10 min	0.45	10 min	0.49
SC-22.01	10 min	0.45	10 min	0.49	10 min	0.53
SC-220.01	10 min	0.63	10 min	0.69	10 min	0.75
SC-221.01	10 min	0.58	10 min	0.63	10 min	0.69

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	10 min	1.23	10 min	1.35	10 min	1.49
SC-221.03	10 min	1.51	10 min	1.67	10 min	1.84
SC-221.04	10 min	2.21	10 min	2.43	10 min	2.68
SC-221.05	10 min	2.86	10 min	3.14	10 min	3.43
SC-221.06	10 min	2.99	10 min	3.30	10 min	3.63
SC-222.01	10 min	0.63	10 min	0.69	10 min	0.76
SC-222.02	10 min	0.98	10 min	1.08	10 min	1.19
SC-222.03	10 min	2.17	10 min	2.40	10 min	2.65
SC-223.01	10 min	0.27	10 min	0.29	10 min	0.32
SC-224.01	15 min	0.71	15 min	0.79	15 min	0.88
SC-225.01	10 min	0.50	10 min	0.55	10 min	0.60
SC-226.01	10 min	0.37	10 min	0.41	10 min	0.44
SC-226.02	10 min	0.85	10 min	0.94	10 min	1.03
SC-226.03	10 min	1.75	10 min	1.92	10 min	2.11
SC-226.04	10 min	2.63	10 min	2.91	10 min	3.20
SC-226.05	10 min	10.48	10 min	11.57	10 min	12.75
SC-226.06	10 min	11.44	10 min	12.60	10 min	13.84
SC-226.07	10 min	12.46	10 min	13.75	10 min	15.14
SC-226.08	10 min	13.12	10 min	14.47	10 min	15.93
SC-227.01	10 min	0.19	10 min	0.21	10 min	0.23
SC-228.01	10 min	0.41	10 min	0.45	10 min	0.49
SC-229.01	10 min	0.29	10 min	0.32	10 min	0.35
SC-23.01	10 min	0.59	10 min	0.64	10 min	0.70
SC-23.02	10 min	1.71	10 min	1.88	10 min	2.07
SC-23.03	10 min	2.09	10 min	2.30	10 min	2.53
SC-230.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-231.01	10 min	0.31	10 min	0.35	10 min	0.38
SC-232.01	10 min	0.77	10 min	0.85	10 min	0.93
SC-232.02	10 min	1.22	10 min	1.34	10 min	1.47
SC-232.03	10 min	2.85	10 min	3.14	10 min	3.45
SC-233.01	10 min	0.56	10 min	0.61	10 min	0.67
SC-233.02	10 min	0.90	10 min	1.00	10 min	1.10
SC-234.01	10 min	0.80	10 min	0.88	10 min	0.97
SC-234.02	10 min	1.53	10 min	1.69	10 min	1.85
SC-234.03	10 min	4.50	10 min	4.95	10 min	5.43
SC-235.01	10 min	0.30	10 min	0.33	10 min	0.36
SC-236.01	10 min	0.38	10 min	0.42	10 min	0.46
SC-236.02	10 min	0.58	10 min	0.64	10 min	0.70
SC-237.01	10 min	0.51	10 min	0.56	10 min	0.61
SC-237.02	10 min	1.04	10 min	1.16	10 min	1.29
SC-238.01	10 min	0.33	10 min	0.36	10 min	0.40
SC-238.02	10 min	0.75	10 min	0.82	10 min	0.90
SC-239.01	10 min	0.42	10 min	0.46	10 min	0.51
SC-24.01	10 min	0.51	10 min	0.56	10 min	0.61

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	20 min	1.10	20 min	1.23	20 min	1.37
SC-240.02	20 min	1.56	20 min	1.75	20 min	1.95
SC-241.01	15 min	4.53	10 min	5.44	10 min	6.17
SC-242.01	10 min	0.59	10 min	0.64	10 min	0.70
SC-242.02	10 min	1.50	10 min	1.64	10 min	1.81
SC-242.03	10 min	2.22	10 min	2.45	10 min	2.69
SC-242.04	10 min	2.36	10 min	2.60	10 min	2.85
SC-242.05	10 min	5.23	10 min	5.76	10 min	6.33
SC-242.06	10 min	6.67	10 min	7.34	10 min	8.06
SC-242.07	10 min	7.14	10 min	7.90	10 min	8.71
SC-242.08	10 min	14.04	10 min	15.73	10 min	17.53
SC-243.01	10 min	0.56	10 min	0.62	10 min	0.68
SC-243.02	10 min	2.04	10 min	2.23	10 min	2.44
SC-244.01	10 min	0.79	10 min	0.87	10 min	0.95
SC-245.01	10 min	0.42	10 min	0.46	10 min	0.50
SC-246.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-246.02	10 min	0.72	10 min	0.80	10 min	0.87
SC-247.01	10 min	0.75	10 min	0.82	10 min	0.90
SC-247.02	10 min	1.89	10 min	2.11	10 min	2.35
SC-248.01	10 min	0.94	10 min	1.06	10 min	1.18
SC-249.01	20 min	0.22	20 min	0.24	20 min	0.27
SC-249.02	20 min	0.63	20 min	0.70	20 min	0.77
SC-249.03	10 min	1.29	10 min	1.44	10 min	1.59
SC-249.04	10 min	3.25	10 min	3.57	10 min	3.91
SC-249.05	10 min	9.49	10 min	10.46	10 min	11.51
SC-249.06	10 min	16.08	10 min	18.06	10 min	20.19
SC-25.01	10 min	1.56	10 min	1.71	10 min	1.88
SC-25.02	10 min	2.19	10 min	2.39	10 min	2.63
SC-25.03	10 min	2.38	10 min	2.63	10 min	2.89
SC-25.04	10 min	4.00	10 min	4.42	10 min	4.88
SC-250.01	10 min	0.18	10 min	0.19	10 min	0.21
SC-251.01	10 min	0.43	10 min	0.47	10 min	0.52
SC-252.01	10 min	0.49	10 min	0.54	10 min	0.60
SC-252.02	10 min	0.92	10 min	1.02	10 min	1.13
SC-253.01	10 min	0.74	10 min	0.81	10 min	0.89
SC-253.02	10 min	2.64	10 min	2.90	10 min	3.17
SC-253.03	10 min	3.23	10 min	3.54	10 min	3.88
SC-254.01	10 min	0.74	10 min	0.82	10 min	0.90
SC-255.01	10 min	0.69	10 min	0.77	10 min	0.85
SC-256.01	10 min	0.61	10 min	0.67	10 min	0.74
SC-257.01	10 min	0.35	10 min	0.38	10 min	0.41
SC-258.01	10 min	1.58	10 min	1.74	10 min	1.90
SC-258.02	10 min	2.63	10 min	2.93	10 min	3.24
SC-259.01	10 min	0.68	10 min	0.75	10 min	0.82

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	10 min	1.40	10 min	1.54	10 min	1.69
SC-259.03	10 min	1.99	10 min	2.19	10 min	2.40
SC-259.04	10 min	3.62	10 min	3.97	10 min	4.34
SC-259.05	10 min	4.41	10 min	4.86	10 min	5.34
SC-259.06	10 min	5.69	10 min	6.26	10 min	6.87
SC-259.07	10 min	7.17	10 min	7.87	10 min	8.63
SC-259.08	10 min	8.57	10 min	9.42	10 min	10.34
SC-259.09	10 min	22.34	10 min	24.80	10 min	27.44
SC-259.10	10 min	22.72	10 min	25.21	10 min	27.88
SC-26.01	10 min	0.48	10 min	0.52	10 min	0.57
SC-260.01	10 min	0.45	10 min	0.50	10 min	0.55
SC-261.01	10 min	0.58	10 min	0.63	10 min	0.69
SC-262.01	10 min	0.66	10 min	0.73	10 min	0.80
SC-262.02	10 min	1.19	10 min	1.31	10 min	1.43
SC-263.01	10 min	0.70	10 min	0.77	10 min	0.84
SC-264.01	10 min	0.39	10 min	0.42	10 min	0.46
SC-265.01	10 min	0.50	10 min	0.55	10 min	0.61
SC-265.02	20 min	1.20	15 min	1.32	15 min	1.48
SC-265.03	15 min	2.08	15 min	2.33	15 min	2.62
SC-265.04	10 min	10.21	10 min	11.39	10 min	12.66
SC-266.01	10 min	0.64	10 min	0.71	10 min	0.78
SC-266.02	10 min	1.22	10 min	1.33	10 min	1.46
SC-266.03	10 min	1.47	10 min	1.62	10 min	1.79
SC-266.04	10 min	5.60	10 min	6.18	10 min	6.81
SC-266.05	10 min	6.48	10 min	7.18	10 min	7.94
SC-267.01	10 min	0.62	10 min	0.68	10 min	0.74
SC-268.01	10 min	1.04	10 min	1.14	10 min	1.26
SC-268.02	10 min	2.70	10 min	2.95	10 min	3.23
SC-269.01	20 min	0.43	20 min	0.47	15 min	0.51
SC-27.01	10 min	0.49	10 min	0.54	10 min	0.59
SC-270.01	20 min	0.47	15 min	0.51	10 min	0.64
SC-271.01	15 min	0.29	10 min	0.35	10 min	0.40
SC-272.01	20 min	0.71	20 min	0.78	20 min	0.86
SC-272.02	20 min	1.45	10 min	1.74	10 min	1.94
SC-272.03	10 min	2.58	10 min	2.87	10 min	3.19
SC-273.01	10 min	0.73	10 min	0.81	10 min	0.89
SC-274.01	20 min	0.36	20 min	0.41	20 min	0.46
SC-274.02	10 min	1.44	10 min	1.59	10 min	1.74
SC-274.03	10 min	3.48	10 min	3.85	10 min	4.26
SC-274.04	10 min	4.49	10 min	4.94	10 min	5.44
SC-274.05	10 min	5.81	10 min	6.46	10 min	7.17
SC-275.01	10 min	0.68	10 min	0.75	10 min	0.82
SC-276.01	10 min	0.50	10 min	0.54	10 min	0.59
SC-277.01	10 min	0.62	10 min	0.68	10 min	0.75

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	10 min	0.38	10 min	0.42	10 min	0.46
SC-278.02	10 min	5.04	10 min	5.65	10 min	6.27
SC-279.01	10 min	0.66	10 min	0.74	10 min	0.82
SC-279.02	10 min	4.81	10 min	5.33	10 min	5.88
SC-28.01	20 min	0.41	15 min	0.46	15 min	0.51
SC-28.02	20 min	0.92	20 min	1.01	20 min	1.11
SC-28.03	20 min	1.29	20 min	1.42	15 min	1.57
SC-28.04	10 min	2.82	10 min	3.11	10 min	3.43
SC-280.01	10 min	0.62	10 min	0.68	10 min	0.74
SC-29.01	10 min	0.48	10 min	0.52	10 min	0.57
SC-29.02	10 min	1.29	10 min	1.43	10 min	1.57
SC-3.01	10 min	0.55	10 min	0.62	10 min	0.69
SC-3.02	15 min	1.73	15 min	1.92	15 min	2.13
SC-30.01	10 min	0.85	10 min	0.93	10 min	1.02
SC-30.02	10 min	1.52	10 min	1.67	10 min	1.82
SC-30.03	10 min	2.10	10 min	2.32	10 min	2.55
SC-30.04	10 min	2.66	10 min	2.94	10 min	3.24
SC-31.01	10 min	0.56	10 min	0.61	10 min	0.66
SC-31.02	10 min	1.15	10 min	1.27	10 min	1.41
SC-32.01	15 min	0.48	10 min	0.60	10 min	0.67
SC-32.02	15 min	0.71	15 min	0.80	15 min	0.89
SC-33.01	10 min	0.71	10 min	0.78	10 min	0.85
SC-33.02	10 min	1.61	10 min	1.77	10 min	1.95
SC-34.01	10 min	0.55	10 min	0.60	10 min	0.66
SC-34.02	10 min	1.11	10 min	1.21	10 min	1.32
SC-34.03	10 min	1.32	10 min	1.45	10 min	1.61
SC-35.01	10 min	0.52	10 min	0.57	10 min	0.62
SC-35.02	10 min	1.39	10 min	1.52	10 min	1.67
SC-35.03	10 min	2.22	10 min	2.43	10 min	2.65
SC-35.04	10 min	2.37	10 min	2.59	10 min	2.83
SC-36.01	10 min	1.08	10 min	1.19	10 min	1.30
SC-36.02	10 min	1.95	10 min	2.14	10 min	2.34
SC-37.01	10 min	0.42	10 min	0.46	10 min	0.50
SC-37.02	10 min	1.15	10 min	1.27	10 min	1.40
SC-38.01	10 min	0.48	10 min	0.53	10 min	0.58
SC-39.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-4.01	20 min	0.61	20 min	0.67	15 min	0.73
SC-40.01	10 min	0.66	10 min	0.73	10 min	0.80
SC-41.01	10 min	0.44	10 min	0.48	10 min	0.52
SC-42.01	10 min	1.48	10 min	1.63	10 min	1.79
SC-43.01	10 min	0.32	10 min	0.36	10 min	0.39
SC-44.01	10 min	1.01	10 min	1.11	10 min	1.22
SC-44.02	10 min	1.58	10 min	1.75	10 min	1.92
SC-44.03	10 min	2.17	10 min	2.40	10 min	2.64

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	10 min	3.35	10 min	3.70	10 min	4.06
SC-44.05	10 min	5.80	10 min	6.41	10 min	7.07
SC-44.06	10 min	6.13	10 min	6.75	10 min	7.44
SC-44.07	10 min	6.82	10 min	7.53	10 min	8.32
SC-44.08	10 min	8.82	10 min	9.70	10 min	10.69
SC-44.09	10 min	9.12	10 min	10.26	10 min	11.30
SC-44.10	12 hours	2.42	6 hours	2.86	6 hours	4.21
SC-44.11	45 min	12.48	30 min	13.63	30 min	15.66
SC-44.12	12 hours	5.67	12 hours	6.67	12 hours	8.68
SC-44.13	12 hours	5.75	12 hours	6.78	12 hours	8.82
SC-44.14	12 hours	6.49	12 hours	7.63	12 hours	9.87
SC-44.15	12 hours	4.64	12 hours	8.09	12 hours	9.75
SC-44.16	12 hours	4.66	12 hours	8.12	12 hours	9.80
SC-44.17	15 min	8.32	12 hours	9.10	12 hours	10.91
SC-44.18	15 min	8.86	15 min	9.68	12 hours	11.05
SC-44.19	15 min	10.10	15 min	11.05	12 hours	11.29
SC-44.20	25 min	9.34	25 min	9.97	12 hours	11.03
SC-45.01	10 min	0.74	10 min	0.82	10 min	0.90
SC-46.01	10 min	0.61	10 min	0.67	10 min	0.73
SC-46.02	10 min	1.03	10 min	1.13	10 min	1.24
SC-46.03	10 min	1.55	10 min	1.71	10 min	1.88
SC-46.04	10 min	1.74	10 min	1.93	10 min	2.12
SC-47.01	10 min	0.99	10 min	1.09	10 min	1.19
SC-48.01	10 min	0.75	10 min	0.82	10 min	0.90
SC-48.02	10 min	1.17	10 min	1.29	10 min	1.42
SC-49.01	10 min	0.84	10 min	0.92	10 min	1.00
SC-5.01	10 min	0.53	10 min	0.58	10 min	0.63
SC-50.01	10 min	0.28	10 min	0.31	10 min	0.34
SC-51.01	10 min	0.29	10 min	0.32	10 min	0.35
SC-52.01	10 min	0.29	10 min	0.32	10 min	0.35
SC-53.01	10 min	0.72	10 min	0.79	10 min	0.87
SC-53.02	10 min	1.45	10 min	1.60	10 min	1.76
SC-53.03	10 min	1.76	10 min	1.95	10 min	2.15
SC-54.01	10 min	0.59	10 min	0.64	10 min	0.70
SC-54.02	10 min	1.10	10 min	1.22	10 min	1.34
SC-55.01	10 min	0.91	10 min	1.00	10 min	1.09
SC-56.01	10 min	0.42	10 min	0.46	10 min	0.50
SC-57.01	10 min	0.31	10 min	0.34	10 min	0.37
SC-58.01	10 min	0.59	10 min	0.65	10 min	0.72
SC-59.01	10 min	0.79	10 min	0.87	10 min	0.96
SC-59.02	10 min	1.49	10 min	1.64	10 min	1.79
SC-59.03	10 min	2.18	10 min	2.40	10 min	2.63
SC-59.04	10 min	2.82	10 min	3.11	10 min	3.41
SC-59.05	10 min	5.96	10 min	6.59	10 min	7.28

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	10 min	6.84	10 min	7.57	10 min	8.36
SC-59.07	10 min	11.45	10 min	12.72	10 min	14.09
SC-59.08	15 min	11.49	15 min	12.83	15 min	14.27
SC-59.09	15 min	14.04	15 min	15.72	15 min	17.50
SC-59.10	25 min	12.35	25 min	14.24	25 min	16.19
SC-6.01	10 min	0.69	10 min	0.75	10 min	0.82
SC-60.01	10 min	0.53	10 min	0.60	10 min	0.66
SC-60.02	10 min	2.10	10 min	2.34	10 min	2.60
SC-61.01	10 min	1.10	10 min	1.22	10 min	1.34
SC-62.01	10 min	0.70	10 min	0.76	10 min	0.84
SC-63.01	10 min	0.40	10 min	0.45	10 min	0.49
SC-64.01	10 min	0.53	10 min	0.58	10 min	0.64
SC-64.02	10 min	1.76	10 min	1.93	10 min	2.13
SC-64.03	10 min	3.31	10 min	3.64	10 min	4.00
SC-64.04	10 min	4.60	10 min	5.09	10 min	5.62
SC-65.01	10 min	0.41	10 min	0.45	10 min	0.49
SC-66.01	10 min	0.32	10 min	0.35	10 min	0.38
SC-66.02	15 min	0.72	10 min	0.88	10 min	0.99
SC-67.01	10 min	0.59	10 min	0.65	10 min	0.71
SC-68.01	10 min	0.81	10 min	0.89	10 min	0.97
SC-68.02	10 min	1.52	10 min	1.67	10 min	1.84
SC-68.03	10 min	2.77	10 min	3.04	10 min	3.33
SC-69.01	10 min	0.70	10 min	0.77	10 min	0.84
SC-7.01	10 min	0.90	10 min	1.00	10 min	1.10
SC-70.01	10 min	0.64	10 min	0.70	10 min	0.76
SC-70.02	10 min	1.02	10 min	1.12	10 min	1.22
SC-71.01	10 min	0.81	10 min	0.88	10 min	0.97
SC-71.02	10 min	1.53	10 min	1.67	10 min	1.84
SC-72.01	10 min	0.87	10 min	0.96	10 min	1.05
SC-73.01	10 min	0.70	10 min	0.77	10 min	0.84
SC-74.01	10 min	0.81	10 min	0.89	10 min	0.98
SC-75.01	10 min	0.47	10 min	0.52	10 min	0.58
SC-75.02	10 min	1.91	10 min	2.13	10 min	2.37
SC-75.03	10 min	2.72	10 min	3.03	10 min	3.36
SC-75.04	10 min	4.69	10 min	5.16	10 min	5.68
SC-76.01	10 min	0.65	10 min	0.73	10 min	0.82
SC-77.01	10 min	0.96	10 min	1.05	10 min	1.15
SC-77.02	10 min	1.45	10 min	1.58	10 min	1.73
SC-77.03	10 min	2.01	10 min	2.20	10 min	2.42
SC-78.01	10 min	0.90	10 min	0.99	10 min	1.09
SC-79.01	10 min	0.96	10 min	1.05	10 min	1.15
SC-79.02	10 min	1.78	10 min	1.95	10 min	2.13
SC-79.03	10 min	3.90	10 min	4.30	10 min	4.73
SC-8.01	10 min	0.76	10 min	0.84	10 min	0.93

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	10 min	1.82	10 min	2.01	10 min	2.21
SC-8.03	10 min	4.76	10 min	5.23	10 min	5.74
SC-8.04	10 min	8.34	10 min	9.22	10 min	10.17
SC-8.05	10 min	9.11	10 min	10.04	10 min	11.01
SC-8.06	10 min	9.46	10 min	10.40	10 min	11.41
SC-80.01	10 min	0.94	10 min	1.03	10 min	1.13
SC-80.02	10 min	1.86	10 min	2.04	10 min	2.24
SC-81.01	10 min	0.70	10 min	0.77	10 min	0.84
SC-81.02	10 min	2.07	10 min	2.26	10 min	2.48
SC-82.01	10 min	0.84	10 min	0.92	10 min	1.00
SC-83.01	10 min	0.53	10 min	0.58	10 min	0.64
SC-84.01	10 min	0.79	10 min	0.86	10 min	0.94
SC-84.02	10 min	1.92	10 min	2.12	10 min	2.34
SC-84.03	10 min	2.54	10 min	2.80	10 min	3.07
SC-84.04	10 min	3.01	10 min	3.31	10 min	3.65
SC-84.05	10 min	3.56	10 min	3.94	10 min	4.35
SC-84.06	10 min	3.93	10 min	4.33	10 min	4.76
SC-85.01	10 min	0.49	10 min	0.54	10 min	0.58
SC-86.01	10 min	0.75	10 min	0.82	10 min	0.90
SC-86.02	10 min	1.44	10 min	1.58	10 min	1.74
SC-87.01	10 min	1.10	10 min	1.20	10 min	1.32
SC-87.02	10 min	1.84	10 min	2.01	10 min	2.20
SC-88.01	10 min	0.49	10 min	0.54	10 min	0.59
SC-88.02	10 min	0.80	10 min	0.88	10 min	0.96
SC-89.01	10 min	0.54	10 min	0.59	10 min	0.65
SC-89.02	10 min	0.59	10 min	0.65	10 min	0.71
SC-9.01	10 min	0.71	10 min	0.77	10 min	0.85
SC-90.01	10 min	0.21	10 min	0.24	10 min	0.26
SC-91.01	10 min	0.64	10 min	0.70	10 min	0.77
SC-91.02	10 min	1.31	10 min	1.44	10 min	1.58
SC-92.01	10 min	0.63	10 min	0.70	10 min	0.77
SC-92.02	10 min	1.75	10 min	1.93	10 min	2.13
SC-93.01	10 min	0.69	10 min	0.75	10 min	0.82
SC-94.01	10 min	0.76	10 min	0.84	10 min	0.91
SC-94.02	10 min	1.75	10 min	1.93	10 min	2.13
SC-95.01	10 min	0.45	10 min	0.50	10 min	0.54
SC-95.02	10 min	1.09	10 min	1.19	10 min	1.30
SC-96.01	10 min	0.50	10 min	0.55	10 min	0.60
SC-97.01	10 min	0.34	10 min	0.38	10 min	0.41
SC-97.02	10 min	1.94	10 min	2.13	10 min	2.35
SC-98.01	10 min	0.59	10 min	0.65	10 min	0.71
SC-99.01	10 min	0.57	10 min	0.63	10 min	0.68
SC-99.02	10 min	1.54	10 min	1.69	10 min	1.86
SC-99.03	10 min	2.64	10 min	2.90	10 min	3.19

Climate Change Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	10 min	7.03	10 min	7.77	10 min	8.58
Dummy1	15 min	35.32	10 min	39.12	10 min	43.30
Dummy2	25 min	55.39	25 min	61.12	25 min	67.23
Dummy3	30 min	106.76	30 min	117.78	30 min	129.64
DummyOut	1.50 hour	113.93	1.50 hour	125.12	1.50 hour	136.98

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	15 min	3.43	15 min	3.83	15 min	4.22
SC-1.02	15 min	7.68	15 min	8.56	15 min	9.41
SC-1.03	15 min	9.07	15 min	10.04	15 min	11.02
SC-1.04	15 min	25.67	15 min	27.77	15 min	30.50
SC-1.05	15 min	28.11	15 min	30.59	15 min	33.58
SC-1.06	15 min	33.26	15 min	36.51	15 min	40.07
SC-1.07	15 min	34.12	15 min	37.52	15 min	41.18
SC-1.08	30 min	52.56	30 min	58.55	30 min	64.98
SC-1.09	45 min	58.08	45 min	64.54	30 min	71.63
SC-1.10	45 min	59.18	45 min	65.79	45 min	72.70
SC-1.11	45 min	79.43	30 min	88.73	30 min	98.50
SC-1.12	45 min	87.39	30 min	97.96	30 min	108.64
SC-1.13	45 min	94.20	30 min	105.94	30 min	117.40
SC-1.14	15 min	109.25	15 min	122.97	15 min	134.59
SC-1.15	15 min	119.44	15 min	134.43	15 min	147.11
SC-1.16	15 min	133.98	15 min	151.94	15 min	166.31
SC-1.17	15 min	135.93	15 min	154.15	15 min	168.76
SC-1.18	1.50 hour	111.80	45 min	127.30	45 min	141.40
SC-1.19	1.50 hour	197.00	1.50 hour	221.40	1.50 hour	249.30
SC-1.20	1.50 hour	199.30	1.50 hour	224.20	1.50 hour	252.90
SC-1.21	1.50 hour	201.12	1.50 hour	226.44	1.50 hour	255.54
SC-1.22	1.50 hour	203.88	1.50 hour	229.58	1.50 hour	259.22
SC-1.23	2 hours	212.56	2 hours	239.50	1.50 hour	269.07
SC-1.24	2 hours	231.40	2 hours	261.23	2 hours	292.92
SC-1.25	2 hours	232.97	2 hours	262.96	2 hours	295.14
SC-1.26	2 hours	238.04	2 hours	268.50	2 hours	302.24
SC-1.27	2 hours	239.39	2 hours	270.04	2 hours	303.98
SC-1.28	2.50 hours	263.65	2.50 hours	295.29	2 hours	330.80
SC-1.29	2.50 hours	271.94	2.50 hours	305.22	2 hours	340.09
SC-1.30	2.50 hours	274.32	2.50 hours	308.17	2 hours	342.97
SC-1.31	2.50 hours	275.98	2.50 hours	310.38	2 hours	345.16
SC-1.32	2.50 hours	278.74	2.50 hours	313.74	2 hours	348.40
SC-1.33	2.50 hours	285.41	2.50 hours	321.67	2.50 hours	357.27
SC-1.34	2.50 hours	287.13	2.50 hours	323.58	2.50 hours	359.67
SC-1.35	2.50 hours	288.85	2.50 hours	325.47	2.50 hours	362.38
SC-1.36	2.50 hours	298.86	2.50 hours	337.38	2.50 hours	378.06
SC-10.01	15 min	3.84	15 min	4.31	15 min	4.73
SC-100.01	15 min	3.83	15 min	4.28	15 min	4.68
SC-100.02	15 min	6.87	15 min	7.73	15 min	8.48
SC-101.01	15 min	4.35	15 min	4.91	15 min	5.38
SC-101.02	15 min	7.91	15 min	8.93	15 min	9.80
SC-102.01	15 min	3.23	15 min	3.62	15 min	3.96
SC-102.02	15 min	13.49	15 min	15.00	15 min	16.44
SC-103.01	15 min	2.19	15 min	2.43	15 min	2.66

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	15 min	8.20	15 min	9.14	15 min	10.01
SC-104.01	15 min	2.01	15 min	2.23	15 min	2.44
SC-105.01	15 min	2.45	15 min	2.73	15 min	2.99
SC-105.02	15 min	6.12	15 min	6.83	15 min	7.48
SC-105.03	15 min	14.25	15 min	15.73	15 min	17.24
SC-105.04	15 min	19.38	15 min	21.31	15 min	23.35
SC-105.05	15 min	24.12	15 min	26.49	15 min	29.03
SC-105.06	15 min	27.27	15 min	29.91	15 min	32.82
SC-105.07	15 min	41.52	15 min	45.80	15 min	50.31
SC-105.08	15 min	48.14	15 min	53.64	15 min	58.96
SC-105.09	15 min	62.17	15 min	70.96	15 min	77.91
SC-106.01	15 min	1.75	15 min	1.94	15 min	2.13
SC-107.01	15 min	3.13	15 min	3.48	15 min	3.82
SC-108.01	15 min	2.15	15 min	2.41	15 min	2.64
SC-109.01	15 min	2.87	15 min	3.22	15 min	3.53
SC-11.01	15 min	2.41	15 min	2.69	15 min	2.95
SC-110.01	15 min	2.63	15 min	2.95	15 min	3.23
SC-110.02	15 min	6.46	15 min	7.25	15 min	7.96
SC-110.03	15 min	7.15	15 min	8.00	15 min	8.78
SC-111.01	15 min	2.56	15 min	2.79	15 min	3.07
SC-112.01	15 min	4.47	15 min	4.97	15 min	5.46
SC-113.01	15 min	1.65	15 min	1.85	15 min	2.03
SC-113.02	15 min	5.72	15 min	6.49	15 min	7.13
SC-114.01	15 min	3.03	15 min	3.40	15 min	3.75
SC-114.02	15 min	4.62	15 min	5.13	15 min	5.64
SC-114.03	15 min	9.58	15 min	10.62	15 min	11.65
SC-115.01	15 min	2.55	15 min	2.86	15 min	3.13
SC-115.02	15 min	4.21	15 min	4.71	15 min	5.17
SC-116.01	15 min	2.53	15 min	2.83	15 min	3.10
SC-116.02	15 min	4.26	15 min	4.80	15 min	5.27
SC-117.01	15 min	1.50	15 min	1.69	15 min	1.85
SC-118.01	15 min	2.77	15 min	3.11	15 min	3.40
SC-119.01	15 min	4.45	15 min	4.93	15 min	5.41
SC-119.02	15 min	11.44	15 min	12.53	15 min	13.75
SC-12.01	15 min	2.43	15 min	2.74	15 min	3.00
SC-12.02	15 min	4.14	15 min	4.64	15 min	5.09
SC-12.03	15 min	8.30	15 min	9.22	15 min	10.11
SC-12.04	15 min	10.91	15 min	11.98	15 min	13.13
SC-120.01	15 min	2.05	15 min	2.31	15 min	2.53
SC-121.01	15 min	2.51	15 min	2.82	15 min	3.10
SC-122.01	15 min	3.81	15 min	4.28	15 min	4.68
SC-122.02	15 min	6.45	15 min	7.16	15 min	7.85
SC-122.03	15 min	8.77	15 min	10.04	15 min	10.99
SC-123.01	15 min	2.01	15 min	2.25	15 min	2.46

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	15 min	6.06	15 min	6.65	15 min	7.29
SC-123.03	15 min	44.93	15 min	49.85	15 min	54.83
SC-123.04	15 min	45.78	15 min	50.81	15 min	55.89
SC-123.05	15 min	57.79	15 min	64.38	15 min	70.73
SC-123.06	15 min	59.87	15 min	66.84	15 min	73.42
SC-123.07	15 min	65.01	15 min	72.84	15 min	79.97
SC-124.01	15 min	3.25	15 min	3.64	15 min	4.02
SC-124.02	15 min	20.26	15 min	22.30	15 min	24.57
SC-125.01	15 min	4.51	15 min	5.10	15 min	5.61
SC-126.01	15 min	1.85	15 min	2.08	15 min	2.28
SC-126.02	15 min	5.83	15 min	6.47	15 min	7.14
SC-126.03	15 min	10.16	15 min	11.00	15 min	12.14
SC-127.01	15 min	4.24	15 min	4.75	15 min	5.20
SC-127.02	15 min	11.89	15 min	13.37	15 min	14.62
SC-128.01	15 min	4.27	15 min	4.75	15 min	5.20
SC-129.01	15 min	2.37	15 min	2.68	15 min	2.94
SC-13.01	15 min	2.50	15 min	2.81	15 min	3.08
SC-130.01	15 min	3.20	15 min	3.59	15 min	3.93
SC-131.01	15 min	1.25	15 min	1.40	15 min	1.54
SC-132.01	15 min	1.83	15 min	2.06	15 min	2.26
SC-133.01	15 min	1.29	15 min	1.44	15 min	1.58
SC-134.01	15 min	1.12	15 min	1.26	15 min	1.38
SC-134.02	15 min	4.25	15 min	4.81	15 min	5.28
SC-134.03	15 min	8.47	15 min	9.60	15 min	10.51
SC-134.04	15 min	11.98	15 min	13.33	15 min	14.58
SC-135.01	15 min	1.02	15 min	1.13	15 min	1.24
SC-135.02	15 min	5.85	15 min	6.51	15 min	7.14
SC-135.03	15 min	7.82	15 min	8.60	15 min	9.43
SC-135.04	15 min	17.28	15 min	19.29	15 min	21.15
SC-135.05	15 min	19.64	15 min	22.04	15 min	24.13
SC-135.06	15 min	31.47	15 min	35.74	15 min	39.16
SC-136.01	15 min	2.84	15 min	3.18	15 min	3.48
SC-137.01	15 min	3.08	15 min	3.41	15 min	3.74
SC-138.01	15 min	3.36	15 min	3.71	15 min	4.06
SC-139.01	15 min	3.22	15 min	3.61	15 min	3.97
SC-139.02	15 min	4.02	15 min	4.46	15 min	4.90
SC-14.01	15 min	4.31	15 min	4.83	15 min	5.29
SC-14.02	15 min	7.02	15 min	7.83	15 min	8.59
SC-14.03	15 min	9.27	15 min	10.26	15 min	11.25
SC-140.01	15 min	2.29	15 min	2.55	15 min	2.80
SC-141.01	15 min	4.25	15 min	4.74	15 min	5.20
SC-142.01	15 min	7.37	15 min	8.19	15 min	8.99
SC-143.01	15 min	2.54	15 min	2.85	15 min	3.15
SC-143.02	15 min	20.25	15 min	22.98	15 min	25.19

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	15 min	2.68	15 min	2.99	15 min	3.29
SC-144.02	15 min	4.05	15 min	4.53	15 min	4.99
SC-144.03	15 min	5.75	15 min	6.41	15 min	7.05
SC-144.04	15 min	10.14	15 min	11.53	15 min	12.65
SC-144.05	15 min	17.83	15 min	21.02	15 min	23.02
SC-145.01	15 min	3.36	15 min	3.72	15 min	4.07
SC-145.02	15 min	6.28	15 min	7.07	15 min	7.74
SC-146.01	15 min	8.76	15 min	9.59	15 min	10.56
SC-147.01	15 min	3.87	15 min	4.23	15 min	4.66
SC-147.02	15 min	5.40	15 min	5.95	15 min	6.53
SC-147.03	15 min	13.40	15 min	14.65	15 min	16.07
SC-148.01	15 min	2.80	15 min	3.15	15 min	3.44
SC-148.02	15 min	6.88	15 min	7.55	15 min	8.27
SC-149.01	15 min	2.16	15 min	2.40	15 min	2.65
SC-149.02	15 min	7.55	15 min	8.30	15 min	9.09
SC-15.01	15 min	4.47	15 min	4.97	15 min	5.45
SC-15.02	15 min	5.96	15 min	6.66	15 min	7.30
SC-15.03	15 min	9.66	15 min	10.72	15 min	11.74
SC-150.01	15 min	2.34	15 min	2.62	15 min	2.87
SC-150.02	15 min	4.77	15 min	5.34	15 min	5.86
SC-150.03	15 min	12.29	15 min	13.68	15 min	14.99
SC-150.04	15 min	16.20	15 min	18.06	15 min	19.80
SC-150.05	15 min	22.96	15 min	25.51	15 min	27.97
SC-150.06	15 min	43.35	15 min	48.29	15 min	52.96
SC-150.07	15 min	70.17	15 min	78.28	15 min	85.83
SC-150.08	30 min	79.47	30 min	88.53	15 min	99.70
SC-150.09	30 min	85.16	30 min	94.96	30 min	105.65
SC-150.10	30 min	102.59	30 min	114.63	30 min	127.25
SC-150.11	30 min	133.14	30 min	148.56	30 min	164.63
SC-150.12	30 min	163.37	30 min	181.41	30 min	201.63
SC-150.13	30 min	178.60	30 min	197.93	30 min	219.86
SC-150.14	30 min	238.08	30 min	267.07	30 min	295.78
SC-150.15	30 min	240.74	30 min	269.78	30 min	298.72
SC-150.16	45 min	250.39	45 min	278.69	45 min	307.42
SC-150.17	45 min	255.94	45 min	285.41	45 min	314.74
SC-151.01	15 min	3.10	15 min	3.46	15 min	3.80
SC-151.02	15 min	4.98	15 min	5.55	15 min	6.09
SC-152.01	15 min	2.83	15 min	3.13	15 min	3.43
SC-153.01	15 min	2.37	15 min	2.59	15 min	2.83
SC-153.02	15 min	5.63	15 min	6.28	15 min	6.88
SC-154.01	15 min	4.31	15 min	4.80	15 min	5.27
SC-154.02	15 min	15.19	15 min	17.04	15 min	18.70
SC-155.01	15 min	1.75	15 min	1.98	15 min	2.17
SC-155.02	15 min	4.84	15 min	5.41	15 min	5.94

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	15 min	1.75	15 min	1.93	15 min	2.12
SC-157.01	15 min	2.11	15 min	2.32	15 min	2.54
SC-158.01	15 min	2.99	15 min	3.35	15 min	3.68
SC-158.02	15 min	4.04	15 min	4.47	15 min	4.89
SC-158.03	15 min	8.91	15 min	9.98	15 min	10.95
SC-158.04	15 min	15.72	15 min	17.56	15 min	19.26
SC-159.01	15 min	2.39	15 min	2.68	15 min	2.94
SC-16.01	15 min	2.87	15 min	3.22	15 min	3.53
SC-160.01	15 min	2.06	15 min	2.31	15 min	2.53
SC-160.02	15 min	4.89	15 min	5.49	15 min	6.02
SC-161.01	15 min	2.47	15 min	2.77	15 min	3.04
SC-161.02	15 min	4.92	15 min	5.47	15 min	6.00
SC-162.01	15 min	3.35	15 min	3.70	15 min	4.06
SC-163.01	15 min	2.23	15 min	2.52	15 min	2.76
SC-163.02	15 min	4.15	15 min	4.67	15 min	5.13
SC-163.03	15 min	6.70	15 min	7.54	15 min	8.28
SC-163.04	15 min	9.13	15 min	10.14	15 min	11.12
SC-163.05	15 min	15.62	15 min	17.30	15 min	18.98
SC-164.01	15 min	3.00	15 min	3.31	15 min	3.62
SC-165.01	15 min	2.55	15 min	2.83	15 min	3.10
SC-165.02	15 min	6.63	15 min	7.28	15 min	7.97
SC-165.03	15 min	8.73	15 min	9.60	15 min	10.51
SC-165.04	15 min	19.79	15 min	21.95	15 min	24.06
SC-165.05	15 min	33.26	15 min	36.41	15 min	39.92
SC-166.01	15 min	2.34	15 min	2.58	15 min	2.83
SC-167.01	15 min	3.35	15 min	3.75	15 min	4.10
SC-167.02	15 min	8.89	15 min	9.92	15 min	10.88
SC-168.01	15 min	2.74	15 min	3.06	15 min	3.36
SC-169.01	15 min	2.59	15 min	2.86	15 min	3.13
SC-169.02	15 min	4.85	15 min	5.43	15 min	5.97
SC-169.03	15 min	10.79	15 min	11.88	15 min	13.01
SC-17.01	15 min	2.50	15 min	2.81	15 min	3.08
SC-17.02	15 min	4.56	15 min	5.09	15 min	5.58
SC-17.03	15 min	7.71	15 min	8.71	15 min	9.54
SC-17.04	15 min	19.01	15 min	21.17	15 min	23.17
SC-17.05	15 min	26.75	15 min	29.73	15 min	32.55
SC-17.06	15 min	30.99	15 min	34.37	15 min	37.65
SC-17.07	15 min	33.69	15 min	37.33	15 min	40.88
SC-170.01	15 min	2.30	15 min	2.55	15 min	2.80
SC-171.01	15 min	1.36	15 min	1.53	15 min	1.67
SC-172.01	15 min	3.13	15 min	3.50	15 min	3.84
SC-172.02	15 min	5.61	15 min	6.16	15 min	6.75
SC-173.01	30 min	4.34	15 min	4.90	15 min	5.45
SC-173.02	15 min	7.91	15 min	8.74	15 min	9.68

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	30 min	8.23	15 min	9.07	15 min	10.04
SC-173.04	15 min	12.22	15 min	13.20	15 min	14.54
SC-173.05	15 min	14.36	15 min	15.41	15 min	16.92
SC-174.01	15 min	2.00	15 min	2.22	15 min	2.43
SC-175.01	15 min	3.58	15 min	4.02	15 min	4.41
SC-175.02	15 min	7.57	15 min	8.54	15 min	9.35
SC-175.03	15 min	12.27	15 min	13.63	15 min	14.94
SC-175.04	15 min	15.56	15 min	17.38	15 min	19.08
SC-175.05	15 min	18.17	15 min	20.07	15 min	22.02
SC-176.01	15 min	1.85	15 min	2.07	15 min	2.29
SC-177.01	15 min	2.02	15 min	2.24	15 min	2.46
SC-177.02	15 min	5.74	15 min	6.33	15 min	6.94
SC-177.03	15 min	15.77	15 min	17.39	15 min	19.08
SC-177.04	15 min	20.93	15 min	23.06	15 min	25.27
SC-178.01	15 min	4.43	15 min	4.93	15 min	5.41
SC-178.02	15 min	7.02	15 min	7.78	15 min	8.53
SC-179.01	15 min	3.19	15 min	3.58	15 min	3.92
SC-18.01	15 min	2.86	15 min	3.19	15 min	3.50
SC-18.02	15 min	4.79	15 min	5.33	15 min	5.83
SC-180.01	15 min	3.08	15 min	3.43	15 min	3.76
SC-180.02	15 min	5.54	15 min	6.14	15 min	6.74
SC-180.03	15 min	7.85	15 min	8.73	15 min	9.59
SC-180.04	15 min	11.12	15 min	12.43	15 min	13.63
SC-181.01	15 min	1.68	15 min	1.89	15 min	2.08
SC-181.02	15 min	4.79	15 min	5.35	15 min	5.88
SC-181.03	15 min	7.72	15 min	8.55	15 min	9.39
SC-181.04	15 min	14.99	15 min	16.70	15 min	18.36
SC-181.05	15 min	16.77	15 min	18.73	15 min	20.58
SC-181.06	15 min	18.52	15 min	20.63	15 min	22.64
SC-181.07	15 min	41.09	15 min	45.95	15 min	50.38
SC-181.08	15 min	42.63	15 min	47.56	15 min	52.14
SC-182.01	15 min	2.19	15 min	2.45	15 min	2.69
SC-182.02	15 min	3.73	15 min	4.15	15 min	4.55
SC-182.03	15 min	6.63	15 min	7.38	15 min	8.13
SC-183.01	15 min	2.38	15 min	2.67	15 min	2.94
SC-183.02	15 min	5.08	15 min	5.59	15 min	6.14
SC-183.03	15 min	12.64	15 min	14.45	15 min	15.86
SC-183.04	15 min	14.94	15 min	16.81	15 min	18.44
SC-184.01	15 min	5.14	15 min	5.74	15 min	6.31
SC-185.01	15 min	2.95	15 min	3.30	15 min	3.62
SC-185.02	15 min	6.86	15 min	7.70	15 min	8.43
SC-186.01	15 min	1.10	15 min	1.21	15 min	1.32
SC-187.01	15 min	3.38	15 min	3.79	15 min	4.15
SC-187.02	15 min	6.91	15 min	7.74	15 min	8.49

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	15 min	8.20	15 min	9.18	15 min	10.07
SC-187.04	15 min	10.53	15 min	11.72	15 min	12.84
SC-187.05	15 min	12.18	15 min	13.60	15 min	14.88
SC-188.01	15 min	3.15	15 min	3.54	15 min	3.88
SC-188.02	15 min	4.89	15 min	5.47	15 min	5.99
SC-189.01	15 min	3.55	15 min	3.98	15 min	4.37
SC-189.02	15 min	6.50	15 min	7.27	15 min	7.97
SC-19.01	15 min	1.90	15 min	2.15	15 min	2.35
SC-190.01	15 min	1.59	15 min	1.77	15 min	1.94
SC-191.01	15 min	3.23	15 min	3.62	15 min	3.97
SC-191.02	15 min	4.89	15 min	5.47	15 min	6.00
SC-191.03	15 min	8.98	15 min	10.08	15 min	11.06
SC-191.04	15 min	12.98	15 min	14.49	15 min	15.88
SC-191.05	15 min	18.07	15 min	20.22	15 min	22.17
SC-191.06	15 min	31.71	15 min	35.20	15 min	38.67
SC-191.07	15 min	39.11	15 min	43.02	15 min	47.24
SC-191.08	15 min	44.06	15 min	47.70	15 min	52.34
SC-192.01	15 min	9.42	15 min	10.40	15 min	11.41
SC-193.01	15 min	4.30	15 min	4.81	15 min	5.29
SC-194.01	15 min	4.96	15 min	5.57	15 min	6.15
SC-194.02	15 min	22.91	15 min	26.02	15 min	28.77
SC-194.03	15 min	24.79	15 min	27.67	15 min	30.66
SC-195.01	15 min	8.14	15 min	9.11	15 min	10.09
SC-196.01	15 min	14.64	15 min	16.33	15 min	18.02
SC-197.01	15 min	10.67	15 min	12.01	15 min	13.25
SC-198.01	15 min	11.86	15 min	13.16	15 min	14.45
SC-2.01	15 min	2.28	15 min	2.57	15 min	2.82
SC-20.01	15 min	2.24	15 min	2.49	15 min	2.73
SC-200.01	15 min	2.95	15 min	3.25	15 min	3.56
SC-200.02	15 min	5.11	15 min	5.71	15 min	6.25
SC-200.03	15 min	9.84	15 min	10.90	15 min	11.96
SC-200.04	15 min	15.13	15 min	16.78	15 min	18.40
SC-200.05	15 min	24.16	15 min	27.22	15 min	29.84
SC-200.06	15 min	41.03	15 min	45.78	15 min	50.19
SC-200.07	15 min	49.25	15 min	54.64	15 min	59.89
SC-200.08	15 min	57.30	15 min	63.49	15 min	69.54
SC-200.09	15 min	83.94	15 min	93.72	15 min	102.66
SC-201.01	15 min	3.51	15 min	3.91	15 min	4.29
SC-202.01	15 min	3.52	15 min	3.94	15 min	4.31
SC-203.01	15 min	3.72	15 min	4.20	15 min	4.61
SC-204.01	15 min	5.52	15 min	6.24	15 min	6.85
SC-205.01	15 min	2.60	15 min	2.89	15 min	3.17
SC-206.01	15 min	19.09	15 min	21.36	15 min	23.41
SC-207.01	15 min	3.55	15 min	3.92	15 min	4.29

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	15 min	7.13	15 min	7.95	15 min	8.71
SC-207.03	15 min	8.15	15 min	9.18	15 min	10.07
SC-207.04	15 min	23.38	15 min	26.41	15 min	28.96
SC-207.05	15 min	31.70	15 min	36.20	15 min	39.68
SC-207.06	15 min	34.34	15 min	39.23	15 min	43.00
SC-207.07	15 min	58.68	15 min	66.24	15 min	72.66
SC-207.08	15 min	88.51	15 min	100.45	15 min	110.11
SC-207.09	15 min	102.23	15 min	116.23	15 min	127.33
SC-207.10	15 min	105.91	15 min	120.58	15 min	132.10
SC-207.11	15 min	114.00	15 min	130.41	15 min	142.82
SC-207.12	15 min	162.68	15 min	185.39	15 min	203.06
SC-207.13	15 min	172.84	15 min	197.87	15 min	216.74
SC-207.14	15 min	177.74	15 min	204.89	15 min	224.36
SC-208.01	15 min	3.56	15 min	3.98	15 min	4.37
SC-208.02	15 min	5.30	15 min	5.86	15 min	6.43
SC-208.03	15 min	7.17	15 min	7.97	15 min	8.74
SC-208.04	15 min	11.77	15 min	13.28	15 min	14.54
SC-208.05	15 min	14.03	15 min	15.79	15 min	17.29
SC-209.01	15 min	2.44	15 min	2.67	15 min	2.92
SC-21.01	15 min	3.12	15 min	3.49	15 min	3.82
SC-210.01	15 min	5.19	15 min	5.76	15 min	6.32
SC-210.02	15 min	7.45	15 min	8.33	15 min	9.13
SC-211.01	15 min	2.68	15 min	3.01	15 min	3.33
SC-211.02	15 min	6.19	15 min	6.92	15 min	7.68
SC-211.03	15 min	9.54	15 min	10.39	15 min	11.53
SC-211.04	15 min	11.02	30 min	12.02	15 min	13.31
SC-212.01	45 min	1.27	45 min	1.41	45 min	1.56
SC-212.02	30 min	2.03	30 min	2.23	30 min	2.47
SC-213.01	15 min	2.10	15 min	2.34	15 min	2.56
SC-213.02	15 min	3.62	15 min	4.12	15 min	4.52
SC-214.01	15 min	2.64	15 min	2.96	15 min	3.24
SC-214.02	15 min	5.65	15 min	6.33	15 min	6.93
SC-215.01	15 min	2.16	15 min	2.39	15 min	2.62
SC-215.02	15 min	3.99	15 min	4.46	15 min	4.89
SC-216.01	15 min	1.88	15 min	2.12	15 min	2.33
SC-216.02	15 min	5.96	15 min	6.53	15 min	7.16
SC-216.03	15 min	9.70	15 min	10.71	15 min	11.74
SC-216.04	15 min	14.69	15 min	15.86	15 min	17.37
SC-217.01	15 min	1.35	15 min	1.52	15 min	1.66
SC-218.01	15 min	1.03	15 min	1.16	15 min	1.27
SC-219.01	15 min	1.37	15 min	1.54	15 min	1.68
SC-22.01	15 min	1.77	15 min	1.97	15 min	2.16
SC-220.01	15 min	2.16	15 min	2.43	15 min	2.66
SC-221.01	15 min	2.01	15 min	2.26	15 min	2.47

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	15 min	4.59	15 min	5.14	15 min	5.64
SC-221.03	15 min	5.71	15 min	6.33	15 min	6.94
SC-221.04	15 min	8.25	15 min	9.17	15 min	10.06
SC-221.05	15 min	10.81	15 min	12.12	15 min	13.29
SC-221.06	15 min	11.65	15 min	13.06	15 min	14.31
SC-222.01	15 min	2.18	15 min	2.44	15 min	2.68
SC-222.02	15 min	3.62	15 min	4.04	15 min	4.43
SC-222.03	15 min	8.99	15 min	9.98	15 min	10.95
SC-223.01	15 min	0.94	15 min	1.05	15 min	1.15
SC-224.01	15 min	3.52	15 min	3.88	15 min	4.28
SC-225.01	15 min	1.74	15 min	1.93	15 min	2.12
SC-226.01	15 min	1.25	15 min	1.40	15 min	1.53
SC-226.02	15 min	3.16	15 min	3.49	15 min	3.82
SC-226.03	15 min	6.65	15 min	7.32	15 min	8.03
SC-226.04	15 min	9.99	15 min	10.85	15 min	11.89
SC-226.05	15 min	40.32	15 min	43.97	15 min	48.20
SC-226.06	15 min	45.43	15 min	49.33	15 min	54.07
SC-226.07	15 min	50.11	15 min	54.71	15 min	59.94
SC-226.08	15 min	52.70	15 min	57.35	15 min	62.82
SC-227.01	15 min	0.67	15 min	0.75	15 min	0.82
SC-228.01	15 min	1.42	15 min	1.59	15 min	1.75
SC-229.01	15 min	1.00	15 min	1.12	15 min	1.23
SC-23.01	15 min	2.30	15 min	2.56	15 min	2.80
SC-23.02	15 min	7.29	15 min	8.14	15 min	8.92
SC-23.03	15 min	9.11	15 min	10.19	15 min	11.18
SC-230.01	15 min	1.00	15 min	1.11	15 min	1.22
SC-231.01	15 min	1.11	15 min	1.23	15 min	1.35
SC-232.01	15 min	2.86	15 min	3.14	15 min	3.44
SC-232.02	15 min	4.59	15 min	4.99	15 min	5.47
SC-232.03	15 min	10.67	15 min	11.78	15 min	12.91
SC-233.01	15 min	1.93	15 min	2.17	15 min	2.38
SC-233.02	15 min	3.34	15 min	3.73	15 min	4.09
SC-234.01	15 min	2.74	15 min	3.04	15 min	3.34
SC-234.02	15 min	5.61	15 min	6.20	15 min	6.80
SC-234.03	15 min	17.04	15 min	18.83	15 min	20.67
SC-235.01	15 min	0.97	15 min	1.08	15 min	1.19
SC-236.01	15 min	1.22	15 min	1.37	15 min	1.50
SC-236.02	15 min	1.91	15 min	2.17	15 min	2.38
SC-237.01	15 min	1.77	15 min	1.98	15 min	2.17
SC-237.02	15 min	4.49	15 min	4.95	15 min	5.45
SC-238.01	15 min	1.13	15 min	1.26	15 min	1.38
SC-238.02	15 min	2.76	15 min	3.07	15 min	3.37
SC-239.01	15 min	1.49	15 min	1.66	15 min	1.82
SC-24.01	15 min	2.01	15 min	2.25	15 min	2.46

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	15 min	5.01	15 min	5.62	15 min	6.20
SC-240.02	15 min	7.03	15 min	8.06	15 min	8.90
SC-241.01	15 min	22.38	15 min	24.83	15 min	27.29
SC-242.01	15 min	2.05	15 min	2.24	15 min	2.45
SC-242.02	15 min	5.21	15 min	5.84	15 min	6.39
SC-242.03	15 min	7.85	15 min	8.59	15 min	9.41
SC-242.04	15 min	8.42	15 min	9.25	15 min	10.13
SC-242.05	15 min	19.06	15 min	21.06	15 min	23.08
SC-242.06	15 min	25.54	15 min	28.76	15 min	31.51
SC-242.07	15 min	28.12	15 min	31.59	15 min	34.60
SC-242.08	15 min	56.70	15 min	62.40	15 min	68.25
SC-243.01	15 min	1.80	15 min	2.00	15 min	2.19
SC-243.02	15 min	6.92	15 min	7.71	15 min	8.45
SC-244.01	15 min	2.53	15 min	2.82	15 min	3.09
SC-245.01	15 min	1.34	15 min	1.50	15 min	1.65
SC-246.01	15 min	0.93	15 min	1.03	15 min	1.13
SC-246.02	15 min	2.83	15 min	3.11	15 min	3.40
SC-247.01	15 min	2.63	15 min	2.97	15 min	3.25
SC-247.02	15 min	7.49	15 min	8.41	15 min	9.21
SC-248.01	15 min	3.80	15 min	4.21	15 min	4.61
SC-249.01	15 min	0.98	15 min	1.09	15 min	1.20
SC-249.02	15 min	2.61	15 min	2.91	15 min	3.20
SC-249.03	15 min	5.15	15 min	5.75	15 min	6.33
SC-249.04	15 min	12.29	15 min	13.58	15 min	14.90
SC-249.05	15 min	36.78	15 min	40.54	15 min	44.48
SC-249.06	15 min	68.83	15 min	76.06	15 min	83.46
SC-25.01	15 min	6.05	15 min	6.78	15 min	7.43
SC-25.02	15 min	9.06	15 min	10.11	15 min	11.08
SC-25.03	15 min	10.01	15 min	11.16	15 min	12.24
SC-25.04	15 min	16.99	15 min	18.74	15 min	20.55
SC-250.01	15 min	0.62	15 min	0.68	15 min	0.74
SC-251.01	15 min	1.46	15 min	1.61	15 min	1.77
SC-252.01	15 min	1.73	15 min	1.93	15 min	2.13
SC-252.02	15 min	3.15	15 min	3.53	15 min	3.88
SC-253.01	15 min	2.41	15 min	2.68	15 min	2.94
SC-253.02	15 min	9.06	15 min	10.10	15 min	11.08
SC-253.03	15 min	11.14	15 min	12.44	15 min	13.64
SC-254.01	15 min	2.48	15 min	2.75	15 min	3.02
SC-255.01	15 min	2.47	15 min	2.77	15 min	3.05
SC-256.01	15 min	2.09	15 min	2.37	15 min	2.60
SC-257.01	15 min	1.18	15 min	1.33	15 min	1.46
SC-258.01	15 min	5.48	15 min	6.16	15 min	6.74
SC-258.02	15 min	10.20	15 min	11.52	15 min	12.65
SC-259.01	15 min	2.37	15 min	2.61	15 min	2.85

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	15 min	4.93	15 min	5.47	15 min	5.99
SC-259.03	15 min	7.04	15 min	7.81	15 min	8.55
SC-259.04	15 min	12.73	15 min	14.02	15 min	15.35
SC-259.05	15 min	15.69	15 min	17.35	15 min	19.01
SC-259.06	15 min	20.33	15 min	22.50	15 min	24.66
SC-259.07	15 min	27.07	15 min	29.88	15 min	32.72
SC-259.08	15 min	31.12	15 min	34.78	15 min	38.08
SC-259.09	15 min	89.39	15 min	99.00	15 min	108.49
SC-259.10	15 min	91.28	15 min	101.27	15 min	110.96
SC-26.01	15 min	1.91	15 min	2.13	15 min	2.34
SC-260.01	15 min	1.48	15 min	1.65	15 min	1.81
SC-261.01	15 min	2.00	15 min	2.19	15 min	2.39
SC-262.01	15 min	2.15	15 min	2.40	15 min	2.64
SC-262.02	15 min	4.03	15 min	4.47	15 min	4.91
SC-263.01	15 min	2.30	15 min	2.57	15 min	2.82
SC-264.01	15 min	1.25	15 min	1.40	15 min	1.54
SC-265.01	15 min	1.68	15 min	1.88	15 min	2.06
SC-265.02	15 min	5.18	15 min	5.67	15 min	6.25
SC-265.03	15 min	9.45	15 min	10.56	15 min	11.60
SC-265.04	15 min	42.58	15 min	47.52	15 min	52.13
SC-266.01	15 min	2.39	15 min	2.68	15 min	2.95
SC-266.02	15 min	4.54	15 min	5.05	15 min	5.56
SC-266.03	15 min	5.33	15 min	5.93	15 min	6.53
SC-266.04	15 min	21.92	15 min	24.36	15 min	26.79
SC-266.05	15 min	26.05	15 min	29.22	15 min	32.10
SC-267.01	15 min	2.04	15 min	2.30	15 min	2.52
SC-268.01	15 min	3.47	15 min	3.87	15 min	4.25
SC-268.02	15 min	9.80	15 min	10.97	15 min	12.08
SC-269.01	15 min	1.85	15 min	2.09	15 min	2.31
SC-27.01	15 min	2.23	15 min	2.52	15 min	2.77
SC-270.01	15 min	2.14	15 min	2.41	15 min	2.66
SC-271.01	15 min	1.31	15 min	1.48	15 min	1.63
SC-272.01	15 min	3.13	15 min	3.47	15 min	3.84
SC-272.02	15 min	6.23	15 min	6.87	15 min	7.56
SC-272.03	15 min	10.11	15 min	11.12	15 min	12.20
SC-273.01	15 min	2.81	15 min	3.15	15 min	3.45
SC-274.01	30 min	1.63	30 min	1.82	30 min	2.00
SC-274.02	15 min	5.21	15 min	5.87	15 min	6.45
SC-274.03	15 min	12.26	15 min	13.68	15 min	15.01
SC-274.04	15 min	15.97	15 min	17.78	15 min	19.50
SC-274.05	15 min	21.30	15 min	23.62	15 min	25.87
SC-275.01	15 min	2.23	15 min	2.48	15 min	2.72
SC-276.01	15 min	1.60	15 min	1.80	15 min	1.97
SC-277.01	15 min	2.16	15 min	2.42	15 min	2.65

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	15 min	1.24	15 min	1.39	15 min	1.52
SC-278.02	15 min	20.10	15 min	22.35	15 min	24.46
SC-279.01	15 min	2.61	15 min	2.95	15 min	3.24
SC-279.02	15 min	18.79	15 min	20.72	15 min	22.77
SC-28.01	15 min	2.35	15 min	2.58	15 min	2.85
SC-28.02	15 min	4.81	15 min	5.27	15 min	5.79
SC-28.03	15 min	6.57	15 min	7.14	15 min	7.86
SC-28.04	15 min	12.87	15 min	14.05	15 min	15.43
SC-280.01	15 min	2.29	15 min	2.59	15 min	2.84
SC-29.01	15 min	1.87	15 min	2.08	15 min	2.29
SC-29.02	15 min	5.43	15 min	6.05	15 min	6.63
SC-3.01	15 min	2.39	15 min	2.70	15 min	2.97
SC-3.02	15 min	8.02	15 min	8.74	15 min	9.63
SC-30.01	15 min	3.30	15 min	3.70	15 min	4.06
SC-30.02	15 min	6.39	15 min	7.13	15 min	7.82
SC-30.03	15 min	8.90	15 min	9.85	15 min	10.80
SC-30.04	15 min	11.31	15 min	12.55	15 min	13.76
SC-31.01	15 min	2.51	15 min	2.83	15 min	3.10
SC-31.02	15 min	5.23	15 min	5.95	15 min	6.54
SC-32.01	15 min	2.72	15 min	3.03	15 min	3.33
SC-32.02	15 min	3.96	15 min	4.41	15 min	4.84
SC-33.01	15 min	2.79	15 min	3.13	15 min	3.42
SC-33.02	15 min	6.70	15 min	7.52	15 min	8.24
SC-34.01	15 min	2.36	15 min	2.65	15 min	2.91
SC-34.02	15 min	4.89	15 min	5.52	15 min	6.05
SC-34.03	15 min	5.84	15 min	6.61	15 min	7.24
SC-35.01	15 min	1.93	15 min	2.17	15 min	2.38
SC-35.02	15 min	5.65	15 min	6.26	15 min	6.85
SC-35.03	15 min	9.03	15 min	9.86	15 min	10.78
SC-35.04	15 min	9.72	15 min	10.64	15 min	11.64
SC-36.01	15 min	4.28	15 min	4.81	15 min	5.28
SC-36.02	15 min	7.72	15 min	8.52	15 min	9.34
SC-37.01	15 min	1.66	15 min	1.86	15 min	2.04
SC-37.02	15 min	4.84	15 min	5.41	15 min	5.94
SC-38.01	15 min	1.98	15 min	2.21	15 min	2.42
SC-39.01	15 min	1.12	15 min	1.26	15 min	1.38
SC-4.01	15 min	2.93	15 min	3.29	15 min	3.64
SC-40.01	15 min	2.52	15 min	2.83	15 min	3.10
SC-41.01	15 min	1.62	15 min	1.83	15 min	2.00
SC-42.01	15 min	5.59	15 min	6.26	15 min	6.85
SC-43.01	15 min	1.17	15 min	1.33	15 min	1.46
SC-44.01	15 min	3.49	15 min	3.91	15 min	4.29
SC-44.02	15 min	5.85	15 min	6.53	15 min	7.16
SC-44.03	15 min	8.08	15 min	8.93	15 min	9.78

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	15 min	12.49	15 min	13.89	15 min	15.24
SC-44.05	15 min	22.52	15 min	25.03	15 min	27.44
SC-44.06	15 min	24.66	15 min	27.39	15 min	30.05
SC-44.07	15 min	29.38	15 min	32.96	15 min	36.12
SC-44.08	15 min	37.41	15 min	41.68	15 min	45.61
SC-44.09	15 min	41.40	15 min	46.18	15 min	50.57
SC-44.10	30 min	37.13	30 min	42.65	30 min	48.22
SC-44.11	30 min	95.92	30 min	108.40	30 min	121.80
SC-44.12	45 min	78.96	45 min	90.42	45 min	102.50
SC-44.13	45 min	78.36	45 min	90.04	45 min	102.30
SC-44.14	1.50 hour	87.86	1.50 hour	98.17	1.50 hour	109.70
SC-44.15	1.50 hour	98.43	1.50 hour	109.90	1.50 hour	122.50
SC-44.16	1.50 hour	98.88	1.50 hour	110.40	1.50 hour	123.10
SC-44.17	1.50 hour	110.60	1.50 hour	123.90	1.50 hour	138.10
SC-44.18	1.50 hour	111.84	1.50 hour	125.36	1.50 hour	139.69
SC-44.19	1.50 hour	114.23	1.50 hour	128.09	1.50 hour	142.86
SC-44.20	1.50 hour	98.45	1.50 hour	111.50	1.50 hour	125.90
SC-45.01	15 min	2.75	15 min	3.11	15 min	3.41
SC-46.01	15 min	2.13	15 min	2.40	15 min	2.63
SC-46.02	15 min	3.84	15 min	4.30	15 min	4.72
SC-46.03	15 min	5.75	15 min	6.38	15 min	7.00
SC-46.04	15 min	6.52	15 min	7.26	15 min	7.95
SC-47.01	15 min	3.43	15 min	3.83	15 min	4.21
SC-48.01	15 min	2.58	15 min	2.90	15 min	3.18
SC-48.02	15 min	4.34	15 min	4.83	15 min	5.29
SC-49.01	15 min	2.94	15 min	3.27	15 min	3.58
SC-5.01	15 min	1.95	15 min	2.21	15 min	2.42
SC-50.01	15 min	1.15	15 min	1.30	15 min	1.43
SC-51.01	15 min	1.07	15 min	1.19	15 min	1.30
SC-52.01	15 min	1.07	15 min	1.19	15 min	1.30
SC-53.01	15 min	2.51	15 min	2.82	15 min	3.09
SC-53.02	15 min	5.53	15 min	6.18	15 min	6.77
SC-53.03	15 min	6.72	15 min	7.51	15 min	8.23
SC-54.01	15 min	2.04	15 min	2.29	15 min	2.51
SC-54.02	15 min	4.23	15 min	4.72	15 min	5.18
SC-55.01	15 min	3.16	15 min	3.54	15 min	3.88
SC-56.01	15 min	1.62	15 min	1.82	15 min	2.00
SC-57.01	15 min	1.26	15 min	1.42	15 min	1.56
SC-58.01	15 min	2.06	15 min	2.29	15 min	2.51
SC-59.01	15 min	2.83	15 min	3.17	15 min	3.49
SC-59.02	15 min	5.65	15 min	6.33	15 min	6.94
SC-59.03	15 min	8.23	15 min	9.12	15 min	10.00
SC-59.04	15 min	10.57	15 min	11.74	15 min	12.88
SC-59.05	15 min	24.14	15 min	26.87	15 min	29.49

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	15 min	28.64	15 min	32.26	15 min	35.40
SC-59.07	15 min	50.07	15 min	56.16	15 min	61.63
SC-59.08	15 min	54.23	15 min	60.49	15 min	66.55
SC-59.09	15 min	66.89	15 min	74.82	15 min	82.40
SC-59.10	15 min	67.28	15 min	76.18	15 min	84.43
SC-6.01	15 min	2.29	15 min	2.56	15 min	2.81
SC-60.01	15 min	2.28	15 min	2.58	15 min	2.83
SC-60.02	15 min	8.70	15 min	9.73	15 min	10.69
SC-61.01	15 min	4.43	15 min	5.04	15 min	5.53
SC-62.01	15 min	2.49	15 min	2.77	15 min	3.04
SC-63.01	15 min	1.64	15 min	1.85	15 min	2.02
SC-64.01	15 min	2.00	15 min	2.23	15 min	2.44
SC-64.02	15 min	6.99	15 min	7.86	15 min	8.63
SC-64.03	15 min	13.22	15 min	14.74	15 min	16.19
SC-64.04	15 min	19.48	15 min	21.64	15 min	23.78
SC-65.01	15 min	1.46	15 min	1.62	15 min	1.78
SC-66.01	15 min	1.29	15 min	1.45	15 min	1.60
SC-66.02	15 min	3.45	15 min	3.81	15 min	4.19
SC-67.01	15 min	2.27	15 min	2.54	15 min	2.77
SC-68.01	15 min	3.18	15 min	3.56	15 min	3.90
SC-68.02	15 min	6.47	15 min	7.22	15 min	7.91
SC-68.03	15 min	11.32	15 min	12.49	15 min	13.69
SC-69.01	15 min	2.64	15 min	2.96	15 min	3.25
SC-7.01	15 min	3.75	15 min	4.22	15 min	4.64
SC-70.01	15 min	2.28	15 min	2.53	15 min	2.77
SC-70.02	15 min	3.79	15 min	4.15	15 min	4.56
SC-71.01	15 min	3.17	15 min	3.56	15 min	3.90
SC-71.02	15 min	6.29	15 min	7.00	15 min	7.67
SC-72.01	15 min	3.00	15 min	3.36	15 min	3.69
SC-73.01	15 min	2.62	15 min	2.94	15 min	3.23
SC-74.01	15 min	2.80	15 min	3.14	15 min	3.44
SC-75.01	15 min	2.18	15 min	2.45	15 min	2.69
SC-75.02	15 min	8.99	15 min	10.03	15 min	11.04
SC-75.03	15 min	12.93	15 min	14.48	15 min	15.88
SC-75.04	15 min	21.38	15 min	23.95	15 min	26.28
SC-76.01	15 min	3.13	15 min	3.53	15 min	3.87
SC-77.01	15 min	3.43	15 min	3.86	15 min	4.23
SC-77.02	15 min	5.32	15 min	5.95	15 min	6.51
SC-77.03	15 min	7.92	15 min	8.84	15 min	9.70
SC-78.01	15 min	3.12	15 min	3.50	15 min	3.84
SC-79.01	15 min	3.54	15 min	3.89	15 min	4.25
SC-79.02	15 min	6.55	15 min	7.18	15 min	7.85
SC-79.03	15 min	14.84	15 min	16.25	15 min	17.80
SC-8.01	15 min	2.88	15 min	3.25	15 min	3.57

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	15 min	7.54	15 min	8.51	15 min	9.35
SC-8.03	15 min	20.29	15 min	22.70	15 min	24.90
SC-8.04	15 min	35.11	15 min	39.14	15 min	42.91
SC-8.05	15 min	39.18	15 min	43.53	15 min	47.72
SC-8.06	15 min	41.34	15 min	46.05	15 min	50.49
SC-80.01	15 min	3.27	15 min	3.67	15 min	4.02
SC-80.02	15 min	6.95	15 min	7.77	15 min	8.52
SC-81.01	15 min	3.01	15 min	3.39	15 min	3.71
SC-81.02	15 min	8.77	15 min	9.85	15 min	10.81
SC-82.01	15 min	3.32	15 min	3.74	15 min	4.09
SC-83.01	15 min	1.85	15 min	2.09	15 min	2.29
SC-84.01	15 min	3.21	15 min	3.61	15 min	3.96
SC-84.02	15 min	7.97	15 min	8.95	15 min	9.80
SC-84.03	15 min	10.57	15 min	11.88	15 min	13.05
SC-84.04	15 min	12.50	15 min	14.15	15 min	15.53
SC-84.05	15 min	15.37	15 min	17.44	15 min	19.13
SC-84.06	15 min	17.53	15 min	19.87	15 min	21.79
SC-85.01	15 min	1.97	15 min	2.18	15 min	2.39
SC-86.01	15 min	2.58	15 min	2.89	15 min	3.17
SC-86.02	15 min	5.21	15 min	5.79	15 min	6.36
SC-87.01	15 min	4.26	15 min	4.77	15 min	5.23
SC-87.02	15 min	7.54	15 min	8.41	15 min	9.23
SC-88.01	15 min	1.95	15 min	2.19	15 min	2.41
SC-88.02	15 min	3.48	15 min	3.87	15 min	4.25
SC-89.01	15 min	2.11	15 min	2.35	15 min	2.58
SC-89.02	15 min	2.49	15 min	2.76	15 min	3.02
SC-9.01	15 min	2.73	15 min	3.07	15 min	3.36
SC-90.01	15 min	0.83	15 min	0.92	15 min	1.01
SC-91.01	15 min	2.38	15 min	2.68	15 min	2.94
SC-91.02	15 min	5.21	15 min	5.88	15 min	6.44
SC-92.01	15 min	2.45	15 min	2.78	15 min	3.05
SC-92.02	15 min	7.12	15 min	7.96	15 min	8.75
SC-93.01	15 min	2.75	15 min	3.09	15 min	3.39
SC-94.01	15 min	2.90	15 min	3.24	15 min	3.56
SC-94.02	15 min	7.12	15 min	8.10	15 min	8.88
SC-95.01	15 min	1.49	15 min	1.68	15 min	1.84
SC-95.02	15 min	3.76	15 min	4.19	15 min	4.59
SC-96.01	15 min	1.69	15 min	1.89	15 min	2.07
SC-97.01	15 min	1.26	15 min	1.42	15 min	1.56
SC-97.02	15 min	7.95	15 min	8.74	15 min	9.57
SC-98.01	15 min	2.32	15 min	2.60	15 min	2.85
SC-99.01	15 min	1.98	15 min	2.20	15 min	2.41
SC-99.02	15 min	5.82	15 min	6.49	15 min	7.11
SC-99.03	15 min	10.10	15 min	11.26	15 min	12.35

Climate Change Sensitivity Results for PMF

Subcatch ID	Base PMP Results		Climate Change Sensitivity Results			
			9.5% increase in Rainfall		19.7% increase in Rainfall	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	15 min	27.37	15 min	30.19	15 min	33.12
Dummy1	15 min	142.90	15 min	160.44	15 min	175.67
Dummy2	30 min	246.18	30 min	282.09	30 min	308.80
Dummy3	45 min	520.92	45 min	580.27	45 min	638.86
DummyOut	1.50 hour	647.48	1.50 hour	712.61	1.50 hour	782.55

Appendix H

XP-RAFTS Model Outputs for
Sensitivity Simulations



Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.93	10 min	0.93	10 min	0.87
SC-1.02	10 min	2.00	10 min	2.04	10 min	1.87
SC-1.03	10 min	2.38	10 min	2.38	10 min	2.28
SC-1.04	10 min	6.27	10 min	6.33	10 min	6.06
SC-1.05	10 min	6.82	10 min	6.89	10 min	6.61
SC-1.06	10 min	7.79	10 min	7.88	10 min	7.56
SC-1.07	10 min	7.91	10 min	8.07	10 min	7.75
SC-1.08	45 min	8.71	45 min	8.79	45 min	8.52
SC-1.09	45 min	9.35	45 min	9.42	45 min	9.20
SC-1.10	45 min	9.36	45 min	9.43	45 min	9.21
SC-1.11	10 min	13.59	10 min	13.73	10 min	13.15
SC-1.12	10 min	16.99	10 min	17.19	10 min	16.49
SC-1.13	10 min	19.43	10 min	19.69	10 min	18.86
SC-1.14	10 min	23.13	10 min	23.47	10 min	22.46
SC-1.15	10 min	25.02	10 min	25.39	10 min	24.27
SC-1.16	15 min	28.64	15 min	29.01	15 min	28.01
SC-1.17	15 min	28.95	15 min	29.35	15 min	28.51
SC-1.18	30 min	18.10	30 min	18.26	30 min	17.80
SC-1.19	1 hour	22.75	1 hour	22.92	1 hour	22.30
SC-1.20	1 hour	20.73	1 hour	20.89	1 hour	20.40
SC-1.21	1 hour	20.74	1 hour	20.90	1 hour	20.41
SC-1.22	1.50 hour	20.92	1.50 hour	21.05	1.50 hour	20.67
SC-1.23	1.50 hour	23.45	1.50 hour	23.61	1.50 hour	23.17
SC-1.24	20 min	31.77	20 min	31.92	20 min	31.44
SC-1.25	25 min	32.54	25 min	32.77	25 min	32.08
SC-1.26	25 min	35.37	25 min	35.67	25 min	34.65
SC-1.27	25 min	35.95	25 min	36.30	25 min	35.30
SC-1.28	15 min	47.23	15 min	47.78	20 min	46.96
SC-1.29	25 min	49.56	25 min	50.16	25 min	48.95
SC-1.30	25 min	50.66	25 min	51.22	25 min	49.63
SC-1.31	25 min	51.58	25 min	52.16	25 min	50.36
SC-1.32	25 min	52.64	25 min	53.22	25 min	51.87
SC-1.33	30 min	54.45	30 min	54.91	30 min	53.75
SC-1.34	30 min	54.52	30 min	54.97	30 min	53.82
SC-1.35	30 min	54.65	30 min	55.22	30 min	53.94
SC-1.36	30 min	57.49	30 min	58.07	30 min	56.34
SC-10.01	10 min	0.97	10 min	0.97	10 min	0.89
SC-100.01	10 min	1.14	10 min	1.14	10 min	1.03
SC-100.02	10 min	1.95	10 min	1.96	10 min	1.84
SC-101.01	10 min	1.18	10 min	1.19	10 min	1.09
SC-101.02	10 min	2.05	10 min	2.07	10 min	1.98
SC-102.01	10 min	0.94	10 min	0.94	10 min	0.86
SC-102.02	10 min	3.50	10 min	3.54	10 min	3.47
SC-103.01	10 min	0.63	10 min	0.63	10 min	0.59

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	10 min	2.17	10 min	2.20	10 min	2.11
SC-104.01	10 min	0.56	10 min	0.56	10 min	0.53
SC-105.01	10 min	0.60	10 min	0.60	10 min	0.56
SC-105.02	10 min	1.41	10 min	1.43	10 min	1.38
SC-105.03	10 min	3.29	10 min	3.34	10 min	3.23
SC-105.04	10 min	4.44	10 min	4.44	10 min	4.31
SC-105.05	10 min	5.26	10 min	5.35	10 min	5.17
SC-105.06	10 min	5.54	10 min	5.67	10 min	5.42
SC-105.07	15 min	8.11	10 min	8.38	15 min	7.93
SC-105.08	15 min	9.32	15 min	9.52	15 min	9.05
SC-105.09	10 min	12.28	10 min	12.48	10 min	12.11
SC-106.01	10 min	0.44	10 min	0.44	10 min	0.41
SC-107.01	10 min	0.76	10 min	0.77	10 min	0.72
SC-108.01	10 min	0.56	10 min	0.56	10 min	0.51
SC-109.01	10 min	0.73	10 min	0.73	10 min	0.67
SC-11.01	10 min	0.59	10 min	0.60	10 min	0.56
SC-110.01	10 min	0.67	10 min	0.67	10 min	0.62
SC-110.02	10 min	1.50	10 min	1.52	10 min	1.47
SC-110.03	10 min	1.64	10 min	1.65	10 min	1.59
SC-111.01	20 min	0.45	15 min	0.45	20 min	0.44
SC-112.01	10 min	1.13	10 min	1.13	10 min	1.05
SC-113.01	10 min	0.41	10 min	0.41	10 min	0.38
SC-113.02	10 min	1.30	10 min	1.32	10 min	1.27
SC-114.01	10 min	0.71	10 min	0.72	10 min	0.66
SC-114.02	10 min	1.14	10 min	1.14	10 min	1.08
SC-114.03	10 min	2.34	10 min	2.37	10 min	2.28
SC-115.01	10 min	0.65	10 min	0.65	10 min	0.60
SC-115.02	10 min	1.04	10 min	1.05	10 min	0.99
SC-116.01	10 min	0.64	10 min	0.64	10 min	0.60
SC-116.02	10 min	1.03	10 min	1.03	10 min	1.00
SC-117.01	10 min	0.38	10 min	0.38	10 min	0.35
SC-118.01	10 min	0.83	10 min	0.83	10 min	0.76
SC-119.01	10 min	1.26	10 min	1.26	10 min	1.19
SC-119.02	10 min	3.14	10 min	3.15	10 min	2.98
SC-12.01	10 min	0.69	10 min	0.69	10 min	0.63
SC-12.02	10 min	1.20	10 min	1.20	10 min	1.10
SC-12.03	10 min	2.19	10 min	2.19	10 min	2.12
SC-12.04	10 min	2.79	10 min	2.80	10 min	2.69
SC-120.01	10 min	0.57	10 min	0.57	10 min	0.52
SC-121.01	10 min	0.71	10 min	0.71	10 min	0.65
SC-122.01	10 min	1.16	10 min	1.16	10 min	1.03
SC-122.02	10 min	1.79	10 min	1.81	10 min	1.73
SC-122.03	10 min	2.41	10 min	2.44	10 min	2.36
SC-123.01	10 min	0.58	10 min	0.58	10 min	0.55

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	10 min	1.62	10 min	1.64	10 min	1.61
SC-123.03	10 min	10.91	10 min	11.00	10 min	10.63
SC-123.04	10 min	11.19	10 min	11.21	10 min	10.86
SC-123.05	10 min	14.12	10 min	14.36	10 min	13.64
SC-123.06	10 min	14.54	10 min	14.66	10 min	13.97
SC-123.07	10 min	15.60	10 min	15.73	10 min	15.00
SC-124.01	20 min	0.70	20 min	0.72	20 min	0.69
SC-124.02	20 min	4.51	20 min	4.56	20 min	4.47
SC-125.01	20 min	0.97	20 min	0.98	20 min	0.96
SC-126.01	10 min	0.54	10 min	0.54	10 min	0.50
SC-126.02	20 min	1.30	20 min	1.32	20 min	1.27
SC-126.03	20 min	2.40	20 min	2.41	20 min	2.38
SC-127.01	10 min	1.28	10 min	1.28	10 min	1.15
SC-127.02	10 min	3.43	10 min	3.43	10 min	3.21
SC-128.01	10 min	1.25	10 min	1.25	10 min	1.15
SC-129.01	10 min	0.61	10 min	0.61	10 min	0.57
SC-13.01	10 min	0.63	10 min	0.63	10 min	0.58
SC-130.01	10 min	0.94	10 min	0.94	10 min	0.86
SC-131.01	10 min	0.37	10 min	0.37	10 min	0.34
SC-132.01	10 min	0.52	10 min	0.52	10 min	0.48
SC-133.01	10 min	0.38	10 min	0.38	10 min	0.35
SC-134.01	10 min	0.32	10 min	0.32	10 min	0.30
SC-134.02	10 min	1.02	10 min	1.04	10 min	1.00
SC-134.03	10 min	2.07	10 min	2.12	10 min	2.03
SC-134.04	10 min	2.93	10 min	3.03	15 min	2.61
SC-135.01	10 min	0.25	10 min	0.25	10 min	0.24
SC-135.02	10 min	1.39	10 min	1.41	10 min	1.38
SC-135.03	10 min	1.83	10 min	1.85	10 min	1.81
SC-135.04	10 min	4.06	10 min	4.10	10 min	3.98
SC-135.05	10 min	4.60	10 min	4.65	10 min	4.52
SC-135.06	10 min	7.50	10 min	7.60	10 min	7.27
SC-136.01	10 min	0.76	10 min	0.76	10 min	0.70
SC-137.01	10 min	0.77	10 min	0.77	10 min	0.73
SC-138.01	10 min	0.92	10 min	0.92	10 min	0.91
SC-139.01	10 min	0.90	10 min	0.90	10 min	0.84
SC-139.02	10 min	1.09	10 min	1.10	10 min	1.04
SC-14.01	10 min	1.11	10 min	1.11	10 min	1.02
SC-14.02	10 min	1.69	10 min	1.70	10 min	1.64
SC-14.03	10 min	2.21	10 min	2.22	10 min	2.16
SC-140.01	10 min	0.64	10 min	0.64	10 min	0.60
SC-141.01	10 min	1.04	10 min	1.05	10 min	1.02
SC-142.01	20 min	1.55	20 min	1.56	20 min	1.54
SC-143.01	20 min	0.61	20 min	0.62	20 min	0.59
SC-143.02	10 min	4.94	10 min	5.04	10 min	4.83

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	10 min	0.73	10 min	0.73	10 min	0.71
SC-144.02	10 min	1.04	10 min	1.05	10 min	1.02
SC-144.03	10 min	1.38	10 min	1.40	10 min	1.32
SC-144.04	10 min	2.44	10 min	2.48	10 min	2.40
SC-144.05	10 min	4.60	10 min	4.65	10 min	4.43
SC-145.01	10 min	0.94	10 min	0.94	10 min	0.92
SC-145.02	10 min	1.74	10 min	1.75	10 min	1.68
SC-146.01	15 min	1.75	15 min	1.79	20 min	1.71
SC-147.01	10 min	0.92	10 min	0.94	10 min	0.88
SC-147.02	10 min	1.25	10 min	1.29	15 min	1.14
SC-147.03	10 min	3.19	10 min	3.24	10 min	3.12
SC-148.01	10 min	0.78	10 min	0.78	10 min	0.72
SC-148.02	10 min	1.67	10 min	1.68	10 min	1.65
SC-149.01	10 min	0.56	10 min	0.56	10 min	0.54
SC-149.02	10 min	1.83	10 min	1.84	10 min	1.80
SC-15.01	10 min	1.13	10 min	1.13	10 min	1.06
SC-15.02	10 min	1.48	10 min	1.48	10 min	1.40
SC-15.03	10 min	2.33	10 min	2.34	10 min	2.27
SC-150.01	10 min	0.68	10 min	0.68	10 min	0.62
SC-150.02	10 min	1.31	10 min	1.32	10 min	1.26
SC-150.03	10 min	3.32	10 min	3.35	10 min	3.28
SC-150.04	10 min	4.30	10 min	4.33	10 min	4.22
SC-150.05	10 min	5.94	10 min	6.00	10 min	5.89
SC-150.06	10 min	11.00	10 min	11.06	10 min	10.73
SC-150.07	10 min	17.06	10 min	17.16	10 min	16.81
SC-150.08	2 hours	9.68	2 hours	9.68	2 hours	9.66
SC-150.09	2 hours	10.19	2 hours	10.20	2 hours	10.18
SC-150.10	2 hours	12.14	2 hours	12.22	2 hours	12.11
SC-150.11	10 min	18.60	10 min	18.76	10 min	18.03
SC-150.12	10 min	29.36	10 min	29.64	10 min	28.43
SC-150.13	15 min	33.27	15 min	33.61	15 min	32.33
SC-150.14	15 min	49.84	15 min	50.56	15 min	49.08
SC-150.15	15 min	50.19	15 min	50.91	15 min	49.43
SC-150.16	15 min	52.64	15 min	53.50	15 min	51.23
SC-150.17	15 min	53.46	15 min	54.29	15 min	52.11
SC-151.01	10 min	0.91	10 min	0.91	10 min	0.83
SC-151.02	10 min	1.38	10 min	1.40	10 min	1.33
SC-152.01	10 min	0.80	10 min	0.80	10 min	0.76
SC-153.01	10 min	0.65	10 min	0.65	10 min	0.63
SC-153.02	10 min	1.52	10 min	1.52	10 min	1.52
SC-154.01	10 min	1.19	10 min	1.20	10 min	1.14
SC-154.02	10 min	3.98	10 min	4.00	10 min	3.97
SC-155.01	10 min	0.43	10 min	0.44	10 min	0.43
SC-155.02	10 min	1.25	10 min	1.26	10 min	1.21

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	10 min	0.49	10 min	0.49	10 min	0.47
SC-157.01	10 min	0.57	10 min	0.58	10 min	0.57
SC-158.01	10 min	0.77	10 min	0.77	10 min	0.71
SC-158.02	10 min	0.98	10 min	0.99	10 min	0.93
SC-158.03	10 min	2.13	10 min	2.15	10 min	2.10
SC-158.04	10 min	3.96	10 min	3.98	10 min	3.88
SC-159.01	10 min	0.61	10 min	0.61	10 min	0.56
SC-16.01	10 min	0.73	10 min	0.74	10 min	0.67
SC-160.01	10 min	0.59	10 min	0.59	10 min	0.55
SC-160.02	10 min	1.32	10 min	1.33	10 min	1.28
SC-161.01	10 min	0.72	10 min	0.72	10 min	0.66
SC-161.02	10 min	1.36	10 min	1.37	10 min	1.31
SC-162.01	10 min	0.84	10 min	0.84	10 min	0.83
SC-163.01	10 min	0.47	10 min	0.49	10 min	0.46
SC-163.02	10 min	0.90	10 min	0.92	10 min	0.88
SC-163.03	10 min	1.48	10 min	1.50	10 min	1.47
SC-163.04	10 min	2.11	10 min	2.12	10 min	2.08
SC-163.05	10 min	3.65	10 min	3.66	10 min	3.58
SC-164.01	10 min	0.72	10 min	0.72	10 min	0.72
SC-165.01	10 min	0.62	10 min	0.63	10 min	0.62
SC-165.02	10 min	1.60	10 min	1.61	10 min	1.59
SC-165.03	10 min	2.09	10 min	2.09	10 min	2.08
SC-165.04	10 min	4.46	10 min	4.50	10 min	4.43
SC-165.05	10 min	7.50	10 min	7.57	10 min	7.43
SC-166.01	10 min	0.56	10 min	0.57	10 min	0.57
SC-167.01	10 min	0.85	10 min	0.85	10 min	0.79
SC-167.02	10 min	2.15	10 min	2.15	10 min	2.05
SC-168.01	10 min	0.70	10 min	0.70	10 min	0.65
SC-169.01	10 min	0.63	10 min	0.63	10 min	0.63
SC-169.02	10 min	1.16	10 min	1.17	10 min	1.15
SC-169.03	10 min	2.62	10 min	2.62	10 min	2.57
SC-17.01	10 min	0.64	10 min	0.64	10 min	0.59
SC-17.02	10 min	1.10	10 min	1.10	10 min	1.07
SC-17.03	10 min	1.84	10 min	1.86	10 min	1.80
SC-17.04	10 min	4.38	10 min	4.43	10 min	4.25
SC-17.05	10 min	6.01	10 min	6.09	10 min	5.87
SC-17.06	10 min	6.75	10 min	6.84	10 min	6.59
SC-17.07	10 min	7.26	10 min	7.36	10 min	7.09
SC-170.01	10 min	0.57	10 min	0.57	10 min	0.54
SC-171.01	10 min	0.41	10 min	0.41	10 min	0.37
SC-172.01	10 min	0.82	10 min	0.82	10 min	0.74
SC-172.02	10 min	1.38	10 min	1.38	10 min	1.33
SC-173.01	20 min	0.89	20 min	0.92	25 min	0.85
SC-173.02	20 min	1.79	20 min	1.84	20 min	1.74

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	20 min	1.85	20 min	1.88	20 min	1.80
SC-173.04	10 min	3.07	10 min	3.09	20 min	2.97
SC-173.05	10 min	3.58	10 min	3.60	10 min	3.43
SC-174.01	10 min	0.53	10 min	0.53	10 min	0.47
SC-175.01	10 min	0.92	10 min	0.92	10 min	0.84
SC-175.02	10 min	1.86	10 min	1.87	10 min	1.78
SC-175.03	10 min	2.99	10 min	3.01	10 min	2.91
SC-175.04	10 min	3.67	10 min	3.70	10 min	3.52
SC-175.05	10 min	4.12	10 min	4.16	10 min	3.99
SC-176.01	10 min	0.38	10 min	0.38	20 min	0.37
SC-177.01	10 min	0.51	10 min	0.51	10 min	0.48
SC-177.02	10 min	1.34	10 min	1.36	10 min	1.31
SC-177.03	10 min	3.68	10 min	3.71	10 min	3.63
SC-177.04	10 min	5.02	10 min	5.08	10 min	4.96
SC-178.01	10 min	1.12	10 min	1.12	10 min	1.04
SC-178.02	10 min	1.66	10 min	1.68	10 min	1.65
SC-179.01	10 min	0.91	10 min	0.91	10 min	0.84
SC-18.01	10 min	0.71	10 min	0.71	10 min	0.66
SC-18.02	10 min	1.11	10 min	1.11	10 min	1.06
SC-180.01	10 min	0.88	10 min	0.88	10 min	0.82
SC-180.02	10 min	1.49	10 min	1.50	10 min	1.44
SC-180.03	10 min	2.09	10 min	2.12	10 min	2.07
SC-180.04	10 min	3.02	10 min	3.04	10 min	2.96
SC-181.01	20 min	0.38	20 min	0.38	20 min	0.38
SC-181.02	10 min	1.25	10 min	1.26	10 min	1.22
SC-181.03	10 min	2.04	10 min	2.07	10 min	1.94
SC-181.04	10 min	3.79	10 min	3.84	10 min	3.60
SC-181.05	10 min	4.08	10 min	4.14	10 min	3.98
SC-181.06	10 min	4.55	10 min	4.60	10 min	4.41
SC-181.07	10 min	10.03	10 min	10.13	10 min	9.82
SC-181.08	10 min	10.40	10 min	10.51	10 min	10.19
SC-182.01	10 min	0.62	10 min	0.62	10 min	0.58
SC-182.02	10 min	1.00	10 min	1.01	10 min	0.95
SC-182.03	10 min	1.56	10 min	1.58	10 min	1.53
SC-183.01	10 min	0.59	10 min	0.59	10 min	0.54
SC-183.02	10 min	1.34	10 min	1.36	10 min	1.30
SC-183.03	10 min	3.32	10 min	3.36	10 min	3.22
SC-183.04	10 min	3.79	10 min	3.83	10 min	3.73
SC-184.01	10 min	1.43	10 min	1.44	10 min	1.36
SC-185.01	10 min	0.86	10 min	0.86	10 min	0.79
SC-185.02	10 min	1.89	10 min	1.90	10 min	1.83
SC-186.01	10 min	0.30	10 min	0.30	10 min	0.29
SC-187.01	10 min	0.87	10 min	0.87	10 min	0.80
SC-187.02	10 min	1.67	10 min	1.68	10 min	1.61

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	10 min	1.97	10 min	1.98	10 min	1.88
SC-187.04	10 min	2.46	10 min	2.47	10 min	2.43
SC-187.05	10 min	2.93	10 min	2.94	10 min	2.81
SC-188.01	10 min	0.91	10 min	0.91	10 min	0.84
SC-188.02	10 min	1.33	10 min	1.34	10 min	1.29
SC-189.01	10 min	1.03	10 min	1.03	10 min	0.94
SC-189.02	10 min	1.83	10 min	1.83	10 min	1.73
SC-19.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-190.01	10 min	0.45	10 min	0.45	10 min	0.42
SC-191.01	10 min	0.83	10 min	0.83	10 min	0.76
SC-191.02	10 min	1.19	10 min	1.19	10 min	1.14
SC-191.03	10 min	2.18	10 min	2.21	10 min	2.15
SC-191.04	10 min	3.18	10 min	3.22	10 min	3.14
SC-191.05	10 min	4.45	10 min	4.49	10 min	4.37
SC-191.06	10 min	7.65	10 min	7.70	10 min	7.51
SC-191.07	10 min	9.11	10 min	9.20	10 min	8.93
SC-191.08	10 min	9.97	10 min	10.10	10 min	9.75
SC-192.01	10 min	2.59	10 min	2.59	10 min	2.57
SC-193.01	10 min	1.18	10 min	1.18	10 min	1.11
SC-194.01	10 min	1.18	10 min	1.18	20 min	1.13
SC-194.02	20 min	4.77	20 min	4.92	20 min	4.60
SC-194.03	20 min	4.95	20 min	5.14	25 min	4.98
SC-195.01	20 min	1.67	20 min	1.72	20 min	1.61
SC-196.01	10 min	3.86	10 min	3.91	10 min	3.64
SC-197.01	10 min	2.47	10 min	2.53	20 min	2.35
SC-198.01	20 min	2.40	15 min	2.44	20 min	2.37
SC-2.01	10 min	0.53	10 min	0.55	15 min	0.50
SC-20.01	10 min	0.56	10 min	0.56	10 min	0.52
SC-200.01	10 min	0.80	10 min	0.80	10 min	0.80
SC-200.02	10 min	1.41	10 min	1.41	10 min	1.39
SC-200.03	10 min	2.63	10 min	2.66	10 min	2.59
SC-200.04	10 min	3.84	10 min	3.89	10 min	3.67
SC-200.05	10 min	6.29	10 min	6.38	10 min	6.08
SC-200.06	10 min	9.51	10 min	9.74	10 min	9.23
SC-200.07	10 min	11.17	10 min	11.46	15 min	10.47
SC-200.08	10 min	12.58	10 min	12.96	15 min	12.26
SC-200.09	15 min	18.58	10 min	19.29	15 min	18.19
SC-201.01	10 min	1.02	10 min	1.02	10 min	0.94
SC-202.01	10 min	1.05	10 min	1.05	10 min	0.96
SC-203.01	10 min	1.04	10 min	1.05	10 min	0.96
SC-204.01	10 min	1.36	10 min	1.38	10 min	1.33
SC-205.01	20 min	0.55	20 min	0.56	20 min	0.55
SC-206.01	10 min	4.38	10 min	4.54	15 min	3.78
SC-207.01	10 min	0.98	10 min	0.98	10 min	0.97

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	10 min	1.89	10 min	1.91	10 min	1.89
SC-207.03	10 min	2.11	10 min	2.13	10 min	2.08
SC-207.04	10 min	5.77	10 min	5.82	10 min	5.57
SC-207.05	10 min	7.61	10 min	7.68	10 min	7.55
SC-207.06	10 min	8.34	10 min	8.42	10 min	8.16
SC-207.07	10 min	13.97	10 min	14.22	10 min	13.61
SC-207.08	10 min	20.74	10 min	21.08	10 min	20.29
SC-207.09	10 min	23.77	10 min	24.20	10 min	23.08
SC-207.10	15 min	24.60	15 min	25.00	15 min	24.18
SC-207.11	15 min	26.60	15 min	27.06	15 min	26.07
SC-207.12	15 min	38.54	15 min	39.08	15 min	37.97
SC-207.13	15 min	40.73	15 min	41.32	15 min	40.05
SC-207.14	15 min	41.81	15 min	42.47	15 min	41.16
SC-208.01	10 min	1.08	10 min	1.08	10 min	0.96
SC-208.02	10 min	1.51	10 min	1.51	10 min	1.41
SC-208.03	10 min	2.00	10 min	2.01	10 min	1.90
SC-208.04	10 min	3.12	10 min	3.14	10 min	3.05
SC-208.05	10 min	3.57	10 min	3.59	10 min	3.47
SC-209.01	10 min	0.66	10 min	0.67	10 min	0.66
SC-21.01	10 min	0.80	10 min	0.80	10 min	0.74
SC-210.01	10 min	1.49	10 min	1.49	10 min	1.38
SC-210.02	10 min	2.04	10 min	2.05	10 min	1.97
SC-211.01	20 min	0.56	20 min	0.58	20 min	0.54
SC-211.02	25 min	1.25	25 min	1.29	25 min	1.20
SC-211.03	20 min	1.92	20 min	1.99	20 min	1.85
SC-211.04	20 min	2.29	20 min	2.37	20 min	2.21
SC-212.01	1 hour	0.21	1 hour	0.21	1 hour	0.20
SC-212.02	20 min	0.43	20 min	0.44	20 min	0.42
SC-213.01	10 min	0.62	10 min	0.62	10 min	0.57
SC-213.02	10 min	1.02	10 min	1.03	10 min	0.97
SC-214.01	10 min	0.76	10 min	0.76	10 min	0.70
SC-214.02	10 min	1.64	10 min	1.64	10 min	1.52
SC-215.01	10 min	0.60	10 min	0.60	10 min	0.59
SC-215.02	10 min	1.08	10 min	1.09	10 min	1.07
SC-216.01	10 min	0.58	10 min	0.58	10 min	0.51
SC-216.02	10 min	1.73	10 min	1.73	10 min	1.62
SC-216.03	10 min	2.69	10 min	2.71	10 min	2.60
SC-216.04	10 min	3.73	10 min	3.77	10 min	3.68
SC-217.01	10 min	0.41	10 min	0.41	10 min	0.37
SC-218.01	10 min	0.31	10 min	0.31	10 min	0.28
SC-219.01	10 min	0.41	10 min	0.41	10 min	0.37
SC-22.01	10 min	0.45	10 min	0.45	10 min	0.41
SC-220.01	10 min	0.63	10 min	0.63	10 min	0.57
SC-221.01	10 min	0.58	10 min	0.58	10 min	0.53

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	10 min	1.23	10 min	1.24	10 min	1.20
SC-221.03	10 min	1.51	10 min	1.53	10 min	1.49
SC-221.04	10 min	2.21	10 min	2.23	10 min	2.17
SC-221.05	10 min	2.86	10 min	2.88	10 min	2.81
SC-221.06	10 min	2.99	10 min	3.03	10 min	2.95
SC-222.01	10 min	0.63	10 min	0.63	10 min	0.58
SC-222.02	10 min	0.98	10 min	0.99	10 min	0.95
SC-222.03	10 min	2.17	10 min	2.20	10 min	2.12
SC-223.01	10 min	0.27	10 min	0.27	10 min	0.25
SC-224.01	15 min	0.71	15 min	0.73	15 min	0.68
SC-225.01	10 min	0.50	10 min	0.50	10 min	0.46
SC-226.01	10 min	0.37	10 min	0.37	10 min	0.33
SC-226.02	10 min	0.85	10 min	0.86	10 min	0.83
SC-226.03	10 min	1.75	10 min	1.76	10 min	1.74
SC-226.04	10 min	2.63	10 min	2.67	10 min	2.59
SC-226.05	10 min	10.48	10 min	10.61	10 min	10.32
SC-226.06	10 min	11.44	10 min	11.57	10 min	11.17
SC-226.07	10 min	12.46	10 min	12.63	10 min	12.12
SC-226.08	10 min	13.12	10 min	13.29	10 min	12.77
SC-227.01	10 min	0.19	10 min	0.19	10 min	0.18
SC-228.01	10 min	0.41	10 min	0.41	10 min	0.38
SC-229.01	10 min	0.29	10 min	0.29	10 min	0.27
SC-23.01	10 min	0.59	10 min	0.59	10 min	0.55
SC-23.02	10 min	1.71	10 min	1.73	10 min	1.68
SC-23.03	10 min	2.09	10 min	2.10	10 min	2.07
SC-230.01	10 min	0.28	10 min	0.28	10 min	0.27
SC-231.01	10 min	0.31	10 min	0.31	10 min	0.29
SC-232.01	10 min	0.77	10 min	0.78	10 min	0.78
SC-232.02	10 min	1.22	10 min	1.23	10 min	1.21
SC-232.03	10 min	2.85	10 min	2.88	10 min	2.81
SC-233.01	10 min	0.56	10 min	0.56	10 min	0.51
SC-233.02	10 min	0.90	10 min	0.91	10 min	0.87
SC-234.01	10 min	0.80	10 min	0.80	10 min	0.74
SC-234.02	10 min	1.53	10 min	1.55	10 min	1.51
SC-234.03	10 min	4.50	10 min	4.54	10 min	4.43
SC-235.01	10 min	0.30	10 min	0.30	10 min	0.27
SC-236.01	10 min	0.38	10 min	0.38	10 min	0.34
SC-236.02	10 min	0.58	10 min	0.58	10 min	0.54
SC-237.01	10 min	0.51	10 min	0.51	10 min	0.47
SC-237.02	10 min	1.04	10 min	1.07	10 min	1.01
SC-238.01	10 min	0.33	10 min	0.33	10 min	0.30
SC-238.02	10 min	0.75	10 min	0.76	10 min	0.74
SC-239.01	10 min	0.42	10 min	0.42	10 min	0.40
SC-24.01	10 min	0.51	10 min	0.51	10 min	0.48

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	20 min	1.10	20 min	1.12	20 min	1.06
SC-240.02	20 min	1.56	20 min	1.60	20 min	1.52
SC-241.01	15 min	4.53	10 min	5.02	15 min	4.42
SC-242.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-242.02	10 min	1.50	10 min	1.50	10 min	1.48
SC-242.03	10 min	2.22	10 min	2.24	10 min	2.21
SC-242.04	10 min	2.36	10 min	2.38	10 min	2.34
SC-242.05	10 min	5.23	10 min	5.28	10 min	5.11
SC-242.06	10 min	6.67	10 min	6.73	10 min	6.51
SC-242.07	10 min	7.14	10 min	7.25	10 min	7.01
SC-242.08	10 min	14.04	10 min	14.49	10 min	13.64
SC-243.01	10 min	0.56	10 min	0.56	10 min	0.51
SC-243.02	10 min	2.04	10 min	2.04	10 min	1.95
SC-244.01	10 min	0.79	10 min	0.79	10 min	0.72
SC-245.01	10 min	0.42	10 min	0.42	10 min	0.38
SC-246.01	10 min	0.28	10 min	0.28	10 min	0.27
SC-246.02	10 min	0.72	10 min	0.73	10 min	0.71
SC-247.01	10 min	0.75	10 min	0.75	10 min	0.68
SC-247.02	10 min	1.89	10 min	1.94	10 min	1.81
SC-248.01	10 min	0.94	10 min	0.97	10 min	0.89
SC-249.01	20 min	0.22	20 min	0.22	20 min	0.21
SC-249.02	20 min	0.63	20 min	0.64	20 min	0.63
SC-249.03	10 min	1.29	10 min	1.32	10 min	1.26
SC-249.04	10 min	3.25	10 min	3.27	10 min	3.17
SC-249.05	10 min	9.49	10 min	9.61	10 min	9.22
SC-249.06	10 min	16.08	10 min	16.65	15 min	15.13
SC-25.01	10 min	1.56	10 min	1.56	10 min	1.43
SC-25.02	10 min	2.19	10 min	2.19	10 min	2.10
SC-25.03	10 min	2.38	10 min	2.41	10 min	2.29
SC-25.04	10 min	4.00	10 min	4.06	10 min	3.88
SC-250.01	10 min	0.18	10 min	0.18	10 min	0.18
SC-251.01	10 min	0.43	10 min	0.43	10 min	0.42
SC-252.01	10 min	0.49	10 min	0.50	10 min	0.47
SC-252.02	10 min	0.92	10 min	0.93	10 min	0.86
SC-253.01	10 min	0.74	10 min	0.74	10 min	0.68
SC-253.02	10 min	2.64	10 min	2.65	10 min	2.56
SC-253.03	10 min	3.23	10 min	3.24	10 min	3.11
SC-254.01	10 min	0.74	10 min	0.74	10 min	0.70
SC-255.01	10 min	0.69	10 min	0.70	10 min	0.64
SC-256.01	10 min	0.61	10 min	0.61	10 min	0.56
SC-257.01	10 min	0.35	10 min	0.35	10 min	0.32
SC-258.01	10 min	1.58	10 min	1.59	10 min	1.43
SC-258.02	10 min	2.63	10 min	2.68	10 min	2.56
SC-259.01	10 min	0.68	10 min	0.68	10 min	0.66

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	10 min	1.40	10 min	1.41	10 min	1.40
SC-259.03	10 min	1.99	10 min	2.00	10 min	1.96
SC-259.04	10 min	3.62	10 min	3.63	10 min	3.60
SC-259.05	10 min	4.41	10 min	4.45	10 min	4.38
SC-259.06	10 min	5.69	10 min	5.71	10 min	5.61
SC-259.07	10 min	7.17	10 min	7.21	10 min	7.13
SC-259.08	10 min	8.57	10 min	8.60	10 min	8.26
SC-259.09	10 min	22.34	10 min	22.80	10 min	21.53
SC-259.10	10 min	22.72	10 min	23.17	10 min	21.91
SC-26.01	10 min	0.48	10 min	0.48	10 min	0.44
SC-260.01	10 min	0.45	10 min	0.45	10 min	0.42
SC-261.01	10 min	0.58	10 min	0.58	10 min	0.57
SC-262.01	10 min	0.66	10 min	0.66	10 min	0.61
SC-262.02	10 min	1.19	10 min	1.19	10 min	1.14
SC-263.01	10 min	0.70	10 min	0.70	10 min	0.65
SC-264.01	10 min	0.39	10 min	0.39	10 min	0.36
SC-265.01	10 min	0.50	10 min	0.50	10 min	0.47
SC-265.02	20 min	1.20	15 min	1.22	20 min	1.20
SC-265.03	15 min	2.08	15 min	2.15	20 min	2.09
SC-265.04	10 min	10.21	10 min	10.49	15 min	9.70
SC-266.01	10 min	0.64	10 min	0.64	10 min	0.58
SC-266.02	10 min	1.22	10 min	1.22	10 min	1.16
SC-266.03	10 min	1.47	10 min	1.49	10 min	1.44
SC-266.04	10 min	5.60	10 min	5.68	10 min	5.45
SC-266.05	10 min	6.48	10 min	6.61	10 min	6.32
SC-267.01	10 min	0.62	10 min	0.62	10 min	0.57
SC-268.01	10 min	1.04	10 min	1.04	10 min	0.98
SC-268.02	10 min	2.70	10 min	2.70	10 min	2.54
SC-269.01	20 min	0.43	20 min	0.43	20 min	0.43
SC-27.01	10 min	0.49	10 min	0.49	10 min	0.46
SC-270.01	20 min	0.47	15 min	0.48	20 min	0.47
SC-271.01	15 min	0.29	10 min	0.33	20 min	0.28
SC-272.01	20 min	0.71	20 min	0.72	20 min	0.71
SC-272.02	20 min	1.45	10 min	1.60	20 min	1.44
SC-272.03	10 min	2.58	10 min	2.64	10 min	2.51
SC-273.01	10 min	0.73	10 min	0.74	10 min	0.72
SC-274.01	20 min	0.36	20 min	0.38	20 min	0.35
SC-274.02	10 min	1.44	10 min	1.45	10 min	1.41
SC-274.03	10 min	3.48	10 min	3.53	10 min	3.35
SC-274.04	10 min	4.49	10 min	4.53	10 min	4.39
SC-274.05	10 min	5.81	10 min	5.96	10 min	5.60
SC-275.01	10 min	0.68	10 min	0.68	10 min	0.63
SC-276.01	10 min	0.50	10 min	0.50	10 min	0.46
SC-277.01	10 min	0.62	10 min	0.63	10 min	0.57

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	10 min	0.38	10 min	0.38	10 min	0.35
SC-278.02	10 min	5.04	10 min	5.18	10 min	4.85
SC-279.01	10 min	0.66	10 min	0.68	15 min	0.59
SC-279.02	10 min	4.81	10 min	4.88	10 min	4.68
SC-28.01	20 min	0.41	15 min	0.42	20 min	0.41
SC-28.02	20 min	0.92	20 min	0.93	20 min	0.92
SC-28.03	20 min	1.29	15 min	1.31	20 min	1.29
SC-28.04	10 min	2.82	10 min	2.86	10 min	2.75
SC-280.01	10 min	0.62	10 min	0.62	10 min	0.57
SC-29.01	10 min	0.48	10 min	0.48	10 min	0.44
SC-29.02	10 min	1.29	10 min	1.31	10 min	1.27
SC-3.01	10 min	0.55	10 min	0.57	15 min	0.51
SC-3.02	15 min	1.73	15 min	1.78	20 min	1.72
SC-30.01	10 min	0.85	10 min	0.85	10 min	0.78
SC-30.02	10 min	1.52	10 min	1.52	10 min	1.46
SC-30.03	10 min	2.10	10 min	2.13	10 min	2.05
SC-30.04	10 min	2.66	10 min	2.70	10 min	2.62
SC-31.01	10 min	0.56	10 min	0.56	10 min	0.54
SC-31.02	10 min	1.15	10 min	1.18	10 min	1.12
SC-32.01	15 min	0.48	10 min	0.55	15 min	0.47
SC-32.02	15 min	0.71	15 min	0.74	15 min	0.69
SC-33.01	10 min	0.71	10 min	0.71	10 min	0.66
SC-33.02	10 min	1.61	10 min	1.62	10 min	1.56
SC-34.01	10 min	0.55	10 min	0.55	10 min	0.51
SC-34.02	10 min	1.11	10 min	1.11	10 min	1.05
SC-34.03	10 min	1.32	10 min	1.33	10 min	1.24
SC-35.01	10 min	0.52	10 min	0.52	10 min	0.46
SC-35.02	10 min	1.39	10 min	1.39	10 min	1.37
SC-35.03	10 min	2.22	10 min	2.23	10 min	2.21
SC-35.04	10 min	2.37	10 min	2.37	10 min	2.37
SC-36.01	10 min	1.08	10 min	1.08	10 min	0.99
SC-36.02	10 min	1.95	10 min	1.95	10 min	1.79
SC-37.01	10 min	0.42	10 min	0.42	10 min	0.39
SC-37.02	10 min	1.15	10 min	1.17	10 min	1.11
SC-38.01	10 min	0.48	10 min	0.49	10 min	0.45
SC-39.01	10 min	0.28	10 min	0.28	10 min	0.26
SC-4.01	20 min	0.61	15 min	0.60	20 min	0.61
SC-40.01	10 min	0.66	10 min	0.66	10 min	0.61
SC-41.01	10 min	0.44	10 min	0.44	10 min	0.39
SC-42.01	10 min	1.48	10 min	1.48	10 min	1.34
SC-43.01	10 min	0.32	10 min	0.32	10 min	0.29
SC-44.01	10 min	1.01	10 min	1.01	10 min	0.93
SC-44.02	10 min	1.58	10 min	1.60	10 min	1.54
SC-44.03	10 min	2.17	10 min	2.20	10 min	2.12

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	10 min	3.35	10 min	3.39	10 min	3.22
SC-44.05	10 min	5.80	10 min	5.88	10 min	5.68
SC-44.06	10 min	6.13	10 min	6.20	10 min	6.02
SC-44.07	10 min	6.82	10 min	6.94	10 min	6.65
SC-44.08	10 min	8.82	10 min	8.95	10 min	8.63
SC-44.09	10 min	9.12	10 min	9.27	15 min	8.94
SC-44.10	12 hours	2.42	12 hours	2.41	12 hours	2.41
SC-44.11	45 min	12.48	45 min	12.50	45 min	12.41
SC-44.12	12 hours	5.67	12 hours	5.68	12 hours	5.67
SC-44.13	12 hours	5.75	12 hours	5.76	12 hours	5.74
SC-44.14	12 hours	6.49	12 hours	6.50	12 hours	6.49
SC-44.15	12 hours	4.64	12 hours	4.61	12 hours	4.39
SC-44.16	12 hours	4.66	12 hours	4.62	12 hours	4.41
SC-44.17	15 min	8.32	15 min	8.41	20 min	8.22
SC-44.18	15 min	8.86	15 min	8.97	20 min	8.61
SC-44.19	15 min	10.10	15 min	10.23	25 min	9.81
SC-44.20	25 min	9.34	25 min	9.38	25 min	9.29
SC-45.01	10 min	0.74	10 min	0.75	10 min	0.67
SC-46.01	10 min	0.61	10 min	0.61	10 min	0.56
SC-46.02	10 min	1.03	10 min	1.04	10 min	0.99
SC-46.03	10 min	1.55	10 min	1.57	10 min	1.51
SC-46.04	10 min	1.74	10 min	1.77	10 min	1.72
SC-47.01	10 min	0.99	10 min	0.99	10 min	0.92
SC-48.01	10 min	0.75	10 min	0.75	10 min	0.68
SC-48.02	10 min	1.17	10 min	1.18	10 min	1.12
SC-49.01	10 min	0.84	10 min	0.84	10 min	0.79
SC-5.01	10 min	0.53	10 min	0.53	10 min	0.48
SC-50.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-51.01	10 min	0.29	10 min	0.29	10 min	0.27
SC-52.01	10 min	0.29	10 min	0.29	10 min	0.28
SC-53.01	10 min	0.72	10 min	0.72	10 min	0.66
SC-53.02	10 min	1.45	10 min	1.47	10 min	1.43
SC-53.03	10 min	1.76	10 min	1.79	10 min	1.74
SC-54.01	10 min	0.59	10 min	0.59	10 min	0.54
SC-54.02	10 min	1.10	10 min	1.12	10 min	1.08
SC-55.01	10 min	0.91	10 min	0.91	10 min	0.84
SC-56.01	10 min	0.42	10 min	0.42	10 min	0.39
SC-57.01	10 min	0.31	10 min	0.31	10 min	0.31
SC-58.01	10 min	0.59	10 min	0.59	10 min	0.55
SC-59.01	10 min	0.79	10 min	0.80	10 min	0.74
SC-59.02	10 min	1.49	10 min	1.50	10 min	1.47
SC-59.03	10 min	2.18	10 min	2.19	10 min	2.15
SC-59.04	10 min	2.82	10 min	2.85	10 min	2.72
SC-59.05	10 min	5.96	10 min	6.07	10 min	5.77

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	10 min	6.84	10 min	6.97	10 min	6.61
SC-59.07	10 min	11.45	10 min	11.69	10 min	11.18
SC-59.08	15 min	11.49	15 min	11.73	15 min	11.18
SC-59.09	15 min	14.04	15 min	14.31	25 min	13.58
SC-59.10	25 min	12.35	25 min	12.53	25 min	11.99
SC-6.01	10 min	0.69	10 min	0.69	10 min	0.62
SC-60.01	10 min	0.53	10 min	0.55	15 min	0.47
SC-60.02	10 min	2.10	10 min	2.15	10 min	2.04
SC-61.01	10 min	1.10	10 min	1.12	10 min	1.07
SC-62.01	10 min	0.70	10 min	0.70	10 min	0.65
SC-63.01	10 min	0.40	10 min	0.41	10 min	0.39
SC-64.01	10 min	0.53	10 min	0.53	10 min	0.49
SC-64.02	10 min	1.76	10 min	1.78	10 min	1.73
SC-64.03	10 min	3.31	10 min	3.34	10 min	3.27
SC-64.04	10 min	4.60	10 min	4.69	10 min	4.50
SC-65.01	10 min	0.41	10 min	0.41	10 min	0.38
SC-66.01	10 min	0.32	10 min	0.32	10 min	0.31
SC-66.02	15 min	0.72	10 min	0.81	20 min	0.71
SC-67.01	10 min	0.59	10 min	0.59	10 min	0.55
SC-68.01	10 min	0.81	10 min	0.81	10 min	0.75
SC-68.02	10 min	1.52	10 min	1.54	10 min	1.48
SC-68.03	10 min	2.77	10 min	2.78	10 min	2.67
SC-69.01	10 min	0.70	10 min	0.70	10 min	0.63
SC-7.01	10 min	0.90	10 min	0.91	10 min	0.82
SC-70.01	10 min	0.64	10 min	0.64	10 min	0.60
SC-70.02	10 min	1.02	10 min	1.02	10 min	0.98
SC-71.01	10 min	0.81	10 min	0.81	10 min	0.74
SC-71.02	10 min	1.53	10 min	1.53	10 min	1.48
SC-72.01	10 min	0.87	10 min	0.87	10 min	0.80
SC-73.01	10 min	0.70	10 min	0.70	10 min	0.65
SC-74.01	10 min	0.81	10 min	0.81	10 min	0.74
SC-75.01	10 min	0.47	10 min	0.48	10 min	0.47
SC-75.02	10 min	1.91	10 min	1.96	10 min	1.86
SC-75.03	10 min	2.72	10 min	2.78	10 min	2.64
SC-75.04	10 min	4.69	10 min	4.75	10 min	4.67
SC-76.01	10 min	0.65	10 min	0.67	10 min	0.63
SC-77.01	10 min	0.96	10 min	0.96	10 min	0.88
SC-77.02	10 min	1.45	10 min	1.45	10 min	1.34
SC-77.03	10 min	2.01	10 min	2.02	10 min	1.93
SC-78.01	10 min	0.90	10 min	0.90	10 min	0.83
SC-79.01	10 min	0.96	10 min	0.97	10 min	0.96
SC-79.02	10 min	1.78	10 min	1.79	10 min	1.77
SC-79.03	10 min	3.90	10 min	3.94	10 min	3.86
SC-8.01	10 min	0.76	10 min	0.78	10 min	0.69

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	10 min	1.82	10 min	1.85	10 min	1.78
SC-8.03	10 min	4.76	10 min	4.77	10 min	4.70
SC-8.04	10 min	8.34	10 min	8.46	10 min	8.20
SC-8.05	10 min	9.11	10 min	9.18	10 min	8.74
SC-8.06	10 min	9.46	10 min	9.51	10 min	9.12
SC-80.01	10 min	0.94	10 min	0.94	10 min	0.87
SC-80.02	10 min	1.86	10 min	1.87	10 min	1.81
SC-81.01	10 min	0.70	10 min	0.70	10 min	0.65
SC-81.02	10 min	2.07	10 min	2.07	10 min	1.93
SC-82.01	10 min	0.84	10 min	0.84	10 min	0.77
SC-83.01	10 min	0.53	10 min	0.53	10 min	0.48
SC-84.01	10 min	0.79	10 min	0.79	10 min	0.72
SC-84.02	10 min	1.92	10 min	1.95	10 min	1.82
SC-84.03	10 min	2.54	10 min	2.56	10 min	2.44
SC-84.04	10 min	3.01	10 min	3.03	10 min	2.91
SC-84.05	10 min	3.56	10 min	3.62	10 min	3.45
SC-84.06	10 min	3.93	10 min	3.97	10 min	3.79
SC-85.01	10 min	0.49	10 min	0.49	10 min	0.46
SC-86.01	10 min	0.75	10 min	0.75	10 min	0.69
SC-86.02	10 min	1.44	10 min	1.45	10 min	1.37
SC-87.01	10 min	1.10	10 min	1.10	10 min	1.00
SC-87.02	10 min	1.84	10 min	1.84	10 min	1.77
SC-88.01	10 min	0.49	10 min	0.49	10 min	0.45
SC-88.02	10 min	0.80	10 min	0.80	10 min	0.76
SC-89.01	10 min	0.54	10 min	0.54	10 min	0.50
SC-89.02	10 min	0.59	10 min	0.59	10 min	0.56
SC-9.01	10 min	0.71	10 min	0.71	10 min	0.65
SC-90.01	10 min	0.21	10 min	0.21	10 min	0.20
SC-91.01	10 min	0.64	10 min	0.64	10 min	0.57
SC-91.02	10 min	1.31	10 min	1.32	10 min	1.24
SC-92.01	10 min	0.63	10 min	0.64	10 min	0.57
SC-92.02	10 min	1.75	10 min	1.77	10 min	1.70
SC-93.01	10 min	0.69	10 min	0.69	10 min	0.63
SC-94.01	10 min	0.76	10 min	0.76	10 min	0.69
SC-94.02	10 min	1.75	10 min	1.77	10 min	1.69
SC-95.01	10 min	0.45	10 min	0.45	10 min	0.40
SC-95.02	10 min	1.09	10 min	1.09	10 min	1.00
SC-96.01	10 min	0.50	10 min	0.50	10 min	0.46
SC-97.01	10 min	0.34	10 min	0.34	10 min	0.30
SC-97.02	10 min	1.94	10 min	1.95	10 min	1.92
SC-98.01	10 min	0.59	10 min	0.59	10 min	0.54
SC-99.01	10 min	0.57	10 min	0.57	10 min	0.53
SC-99.02	10 min	1.54	10 min	1.56	10 min	1.51
SC-99.03	10 min	2.64	10 min	2.67	10 min	2.62

Initial Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Initial Loss Sensitivity Results			
			IL Reduced by 20%		IL Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	10 min	7.03	10 min	7.13	10 min	6.90
Dummy1	15 min	35.32	10 min	36.00	15 min	34.19
Dummy2	25 min	55.39	25 min	56.02	25 min	54.64
Dummy3	30 min	106.76	30 min	108.07	30 min	105.67
DummyOut	1.50 hour	113.93	1.50 hour	114.61	1.50 hour	112.97

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.93	10 min	0.93	10 min	0.92
SC-1.02	10 min	2.00	10 min	2.01	10 min	2.00
SC-1.03	10 min	2.38	10 min	2.38	10 min	2.38
SC-1.04	10 min	6.27	10 min	6.27	10 min	6.26
SC-1.05	10 min	6.82	10 min	6.82	10 min	6.81
SC-1.06	10 min	7.79	10 min	7.79	10 min	7.77
SC-1.07	10 min	7.91	10 min	7.92	10 min	7.89
SC-1.08	45 min	8.71	45 min	8.72	45 min	8.64
SC-1.09	45 min	9.35	45 min	9.36	45 min	9.28
SC-1.10	45 min	9.36	45 min	9.38	45 min	9.29
SC-1.11	10 min	13.59	10 min	13.59	10 min	13.56
SC-1.12	10 min	16.99	10 min	16.99	10 min	16.95
SC-1.13	10 min	19.43	10 min	19.43	10 min	19.38
SC-1.14	10 min	23.13	10 min	23.13	10 min	23.06
SC-1.15	10 min	25.02	10 min	25.03	10 min	24.95
SC-1.16	15 min	28.64	15 min	28.65	15 min	28.55
SC-1.17	15 min	28.95	15 min	28.97	15 min	28.86
SC-1.18	30 min	18.10	30 min	18.12	30 min	18.02
SC-1.19	1 hour	22.75	1 hour	22.79	1 hour	22.50
SC-1.20	1 hour	20.73	1 hour	20.76	1 hour	20.57
SC-1.21	1 hour	20.74	1 hour	20.78	1 hour	20.59
SC-1.22	1.50 hour	20.92	1.50 hour	20.97	1 hour	20.66
SC-1.23	1.50 hour	23.45	1.50 hour	23.50	1.50 hour	23.23
SC-1.24	20 min	31.77	20 min	31.79	20 min	31.66
SC-1.25	25 min	32.54	25 min	32.56	25 min	32.42
SC-1.26	25 min	35.37	25 min	35.40	25 min	35.25
SC-1.27	25 min	35.95	25 min	35.97	25 min	35.82
SC-1.28	15 min	47.23	15 min	47.26	15 min	47.08
SC-1.29	25 min	49.56	25 min	49.60	25 min	49.36
SC-1.30	25 min	50.66	25 min	50.71	25 min	50.46
SC-1.31	25 min	51.58	25 min	51.63	25 min	51.38
SC-1.32	25 min	52.64	25 min	52.70	25 min	52.43
SC-1.33	30 min	54.45	30 min	54.52	30 min	54.23
SC-1.34	30 min	54.52	30 min	54.59	30 min	54.29
SC-1.35	30 min	54.65	30 min	54.73	30 min	54.41
SC-1.36	30 min	57.49	30 min	57.58	30 min	57.24
SC-10.01	10 min	0.97	10 min	0.97	10 min	0.96
SC-100.01	10 min	1.14	10 min	1.14	10 min	1.14
SC-100.02	10 min	1.95	10 min	1.95	10 min	1.95
SC-101.01	10 min	1.18	10 min	1.18	10 min	1.18
SC-101.02	10 min	2.05	10 min	2.05	10 min	2.05
SC-102.01	10 min	0.94	10 min	0.94	10 min	0.94
SC-102.02	10 min	3.50	10 min	3.50	10 min	3.49
SC-103.01	10 min	0.63	10 min	0.63	10 min	0.63

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	10 min	2.17	10 min	2.17	10 min	2.16
SC-104.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-105.01	10 min	0.60	10 min	0.60	10 min	0.60
SC-105.02	10 min	1.41	10 min	1.41	10 min	1.41
SC-105.03	10 min	3.29	10 min	3.29	10 min	3.28
SC-105.04	10 min	4.44	10 min	4.44	10 min	4.43
SC-105.05	10 min	5.26	10 min	5.26	10 min	5.25
SC-105.06	10 min	5.54	10 min	5.55	10 min	5.53
SC-105.07	15 min	8.11	15 min	8.12	15 min	8.09
SC-105.08	15 min	9.32	15 min	9.33	15 min	9.29
SC-105.09	10 min	12.28	10 min	12.28	10 min	12.24
SC-106.01	10 min	0.44	10 min	0.44	10 min	0.44
SC-107.01	10 min	0.76	10 min	0.76	10 min	0.76
SC-108.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-109.01	10 min	0.73	10 min	0.73	10 min	0.72
SC-11.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-110.01	10 min	0.67	10 min	0.67	10 min	0.67
SC-110.02	10 min	1.50	10 min	1.50	10 min	1.49
SC-110.03	10 min	1.64	10 min	1.64	10 min	1.63
SC-111.01	20 min	0.45	20 min	0.45	20 min	0.44
SC-112.01	10 min	1.13	10 min	1.13	10 min	1.12
SC-113.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-113.02	10 min	1.30	10 min	1.30	10 min	1.30
SC-114.01	10 min	0.71	10 min	0.71	10 min	0.71
SC-114.02	10 min	1.14	10 min	1.14	10 min	1.14
SC-114.03	10 min	2.34	10 min	2.34	10 min	2.33
SC-115.01	10 min	0.65	10 min	0.65	10 min	0.65
SC-115.02	10 min	1.04	10 min	1.04	10 min	1.03
SC-116.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-116.02	10 min	1.03	10 min	1.03	10 min	1.03
SC-117.01	10 min	0.38	10 min	0.38	10 min	0.38
SC-118.01	10 min	0.83	10 min	0.83	10 min	0.83
SC-119.01	10 min	1.26	10 min	1.26	10 min	1.26
SC-119.02	10 min	3.14	10 min	3.14	10 min	3.14
SC-12.01	10 min	0.69	10 min	0.69	10 min	0.69
SC-12.02	10 min	1.20	10 min	1.20	10 min	1.20
SC-12.03	10 min	2.19	10 min	2.19	10 min	2.18
SC-12.04	10 min	2.79	10 min	2.79	10 min	2.78
SC-120.01	10 min	0.57	10 min	0.57	10 min	0.57
SC-121.01	10 min	0.71	10 min	0.71	10 min	0.71
SC-122.01	10 min	1.16	10 min	1.16	10 min	1.15
SC-122.02	10 min	1.79	10 min	1.79	10 min	1.78
SC-122.03	10 min	2.41	10 min	2.41	10 min	2.41
SC-123.01	10 min	0.58	10 min	0.58	10 min	0.58

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	10 min	1.62	10 min	1.63	10 min	1.62
SC-123.03	10 min	10.91	10 min	10.91	10 min	10.88
SC-123.04	10 min	11.19	10 min	11.19	10 min	11.16
SC-123.05	10 min	14.12	10 min	14.13	10 min	14.09
SC-123.06	10 min	14.54	10 min	14.54	10 min	14.50
SC-123.07	10 min	15.60	10 min	15.60	10 min	15.56
SC-124.01	20 min	0.70	20 min	0.71	20 min	0.70
SC-124.02	20 min	4.51	20 min	4.52	20 min	4.50
SC-125.01	20 min	0.97	20 min	0.97	20 min	0.97
SC-126.01	10 min	0.54	10 min	0.54	10 min	0.54
SC-126.02	20 min	1.30	20 min	1.31	20 min	1.30
SC-126.03	20 min	2.40	20 min	2.40	20 min	2.39
SC-127.01	10 min	1.28	10 min	1.28	10 min	1.28
SC-127.02	10 min	3.43	10 min	3.43	10 min	3.42
SC-128.01	10 min	1.25	10 min	1.25	10 min	1.25
SC-129.01	10 min	0.61	10 min	0.61	10 min	0.61
SC-13.01	10 min	0.63	10 min	0.63	10 min	0.63
SC-130.01	10 min	0.94	10 min	0.94	10 min	0.93
SC-131.01	10 min	0.37	10 min	0.37	10 min	0.37
SC-132.01	10 min	0.52	10 min	0.52	10 min	0.52
SC-133.01	10 min	0.38	10 min	0.38	10 min	0.38
SC-134.01	10 min	0.32	10 min	0.32	10 min	0.31
SC-134.02	10 min	1.02	10 min	1.02	10 min	1.02
SC-134.03	10 min	2.07	10 min	2.07	10 min	2.06
SC-134.04	10 min	2.93	10 min	2.93	10 min	2.92
SC-135.01	10 min	0.25	10 min	0.25	10 min	0.25
SC-135.02	10 min	1.39	10 min	1.39	10 min	1.39
SC-135.03	10 min	1.83	10 min	1.83	10 min	1.83
SC-135.04	10 min	4.06	10 min	4.06	10 min	4.05
SC-135.05	10 min	4.60	10 min	4.60	10 min	4.59
SC-135.06	10 min	7.50	10 min	7.51	10 min	7.49
SC-136.01	10 min	0.76	10 min	0.76	10 min	0.76
SC-137.01	10 min	0.77	10 min	0.77	10 min	0.77
SC-138.01	10 min	0.92	10 min	0.92	10 min	0.92
SC-139.01	10 min	0.90	10 min	0.90	10 min	0.90
SC-139.02	10 min	1.09	10 min	1.09	10 min	1.09
SC-14.01	10 min	1.11	10 min	1.11	10 min	1.11
SC-14.02	10 min	1.69	10 min	1.69	10 min	1.69
SC-14.03	10 min	2.21	10 min	2.21	10 min	2.21
SC-140.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-141.01	10 min	1.04	10 min	1.04	10 min	1.04
SC-142.01	20 min	1.55	20 min	1.55	20 min	1.54
SC-143.01	20 min	0.61	20 min	0.61	20 min	0.60
SC-143.02	10 min	4.94	10 min	4.94	10 min	4.92

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	10 min	0.73	10 min	0.73	10 min	0.73
SC-144.02	10 min	1.04	10 min	1.04	10 min	1.03
SC-144.03	10 min	1.38	10 min	1.38	10 min	1.38
SC-144.04	10 min	2.44	10 min	2.44	10 min	2.43
SC-144.05	10 min	4.60	10 min	4.60	10 min	4.59
SC-145.01	10 min	0.94	10 min	0.94	10 min	0.94
SC-145.02	10 min	1.74	10 min	1.74	10 min	1.73
SC-146.01	15 min	1.75	15 min	1.76	15 min	1.74
SC-147.01	10 min	0.92	10 min	0.92	10 min	0.92
SC-147.02	10 min	1.25	10 min	1.25	10 min	1.25
SC-147.03	10 min	3.19	10 min	3.20	10 min	3.18
SC-148.01	10 min	0.78	10 min	0.78	10 min	0.78
SC-148.02	10 min	1.67	10 min	1.67	10 min	1.67
SC-149.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-149.02	10 min	1.83	10 min	1.83	10 min	1.82
SC-15.01	10 min	1.13	10 min	1.13	10 min	1.12
SC-15.02	10 min	1.48	10 min	1.48	10 min	1.47
SC-15.03	10 min	2.33	10 min	2.33	10 min	2.33
SC-150.01	10 min	0.68	10 min	0.68	10 min	0.68
SC-150.02	10 min	1.31	10 min	1.31	10 min	1.30
SC-150.03	10 min	3.32	10 min	3.32	10 min	3.31
SC-150.04	10 min	4.30	10 min	4.30	10 min	4.29
SC-150.05	10 min	5.94	10 min	5.95	10 min	5.93
SC-150.06	10 min	11.00	10 min	11.00	10 min	10.97
SC-150.07	10 min	17.06	10 min	17.06	10 min	17.02
SC-150.08	2 hours	9.68	2 hours	9.70	2 hours	9.58
SC-150.09	2 hours	10.19	2 hours	10.22	2 hours	10.09
SC-150.10	2 hours	12.14	2 hours	12.17	2 hours	12.01
SC-150.11	10 min	18.60	10 min	18.61	10 min	18.56
SC-150.12	10 min	29.36	10 min	29.36	10 min	29.28
SC-150.13	15 min	33.27	15 min	33.28	15 min	33.18
SC-150.14	15 min	49.84	15 min	49.88	15 min	49.71
SC-150.15	15 min	50.19	15 min	50.23	15 min	50.06
SC-150.16	15 min	52.64	15 min	52.68	15 min	52.47
SC-150.17	15 min	53.46	15 min	53.50	15 min	53.28
SC-151.01	10 min	0.91	10 min	0.91	10 min	0.91
SC-151.02	10 min	1.38	10 min	1.38	10 min	1.38
SC-152.01	10 min	0.80	10 min	0.80	10 min	0.80
SC-153.01	10 min	0.65	10 min	0.65	10 min	0.65
SC-153.02	10 min	1.52	10 min	1.52	10 min	1.51
SC-154.01	10 min	1.19	10 min	1.19	10 min	1.19
SC-154.02	10 min	3.98	10 min	3.98	10 min	3.97
SC-155.01	10 min	0.43	10 min	0.43	10 min	0.43
SC-155.02	10 min	1.25	10 min	1.25	10 min	1.25

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	10 min	0.49	10 min	0.49	10 min	0.49
SC-157.01	10 min	0.57	10 min	0.57	10 min	0.57
SC-158.01	10 min	0.77	10 min	0.77	10 min	0.77
SC-158.02	10 min	0.98	10 min	0.98	10 min	0.98
SC-158.03	10 min	2.13	10 min	2.13	10 min	2.12
SC-158.04	10 min	3.96	10 min	3.96	10 min	3.95
SC-159.01	10 min	0.61	10 min	0.61	10 min	0.61
SC-16.01	10 min	0.73	10 min	0.73	10 min	0.73
SC-160.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-160.02	10 min	1.32	10 min	1.32	10 min	1.32
SC-161.01	10 min	0.72	10 min	0.72	10 min	0.72
SC-161.02	10 min	1.36	10 min	1.36	10 min	1.36
SC-162.01	10 min	0.84	10 min	0.84	10 min	0.84
SC-163.01	10 min	0.47	10 min	0.47	10 min	0.47
SC-163.02	10 min	0.90	10 min	0.90	10 min	0.90
SC-163.03	10 min	1.48	10 min	1.48	10 min	1.48
SC-163.04	10 min	2.11	10 min	2.11	10 min	2.11
SC-163.05	10 min	3.65	10 min	3.65	10 min	3.64
SC-164.01	10 min	0.72	10 min	0.72	10 min	0.72
SC-165.01	10 min	0.62	10 min	0.62	10 min	0.62
SC-165.02	10 min	1.60	10 min	1.60	10 min	1.60
SC-165.03	10 min	2.09	10 min	2.09	10 min	2.08
SC-165.04	10 min	4.46	10 min	4.46	10 min	4.45
SC-165.05	10 min	7.50	10 min	7.50	10 min	7.48
SC-166.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-167.01	10 min	0.85	10 min	0.85	10 min	0.85
SC-167.02	10 min	2.15	10 min	2.15	10 min	2.14
SC-168.01	10 min	0.70	10 min	0.70	10 min	0.69
SC-169.01	10 min	0.63	10 min	0.63	10 min	0.62
SC-169.02	10 min	1.16	10 min	1.16	10 min	1.16
SC-169.03	10 min	2.62	10 min	2.62	10 min	2.61
SC-17.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-17.02	10 min	1.10	10 min	1.10	10 min	1.10
SC-17.03	10 min	1.84	10 min	1.84	10 min	1.83
SC-17.04	10 min	4.38	10 min	4.38	10 min	4.37
SC-17.05	10 min	6.01	10 min	6.01	10 min	5.99
SC-17.06	10 min	6.75	10 min	6.75	10 min	6.73
SC-17.07	10 min	7.26	10 min	7.26	10 min	7.24
SC-170.01	10 min	0.57	10 min	0.57	10 min	0.57
SC-171.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-172.01	10 min	0.82	10 min	0.82	10 min	0.82
SC-172.02	10 min	1.38	10 min	1.38	10 min	1.38
SC-173.01	20 min	0.89	20 min	0.89	20 min	0.88
SC-173.02	20 min	1.79	20 min	1.79	20 min	1.78

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	20 min	1.85	20 min	1.85	20 min	1.84
SC-173.04	10 min	3.07	10 min	3.07	10 min	3.07
SC-173.05	10 min	3.58	10 min	3.58	10 min	3.57
SC-174.01	10 min	0.53	10 min	0.53	10 min	0.52
SC-175.01	10 min	0.92	10 min	0.92	10 min	0.91
SC-175.02	10 min	1.86	10 min	1.86	10 min	1.85
SC-175.03	10 min	2.99	10 min	2.99	10 min	2.98
SC-175.04	10 min	3.67	10 min	3.67	10 min	3.66
SC-175.05	10 min	4.12	10 min	4.12	10 min	4.11
SC-176.01	10 min	0.38	10 min	0.38	10 min	0.38
SC-177.01	10 min	0.51	10 min	0.51	10 min	0.51
SC-177.02	10 min	1.34	10 min	1.34	10 min	1.34
SC-177.03	10 min	3.68	10 min	3.68	10 min	3.67
SC-177.04	10 min	5.02	10 min	5.02	10 min	5.01
SC-178.01	10 min	1.12	10 min	1.12	10 min	1.11
SC-178.02	10 min	1.66	10 min	1.66	10 min	1.66
SC-179.01	10 min	0.91	10 min	0.91	10 min	0.91
SC-18.01	10 min	0.71	10 min	0.71	10 min	0.70
SC-18.02	10 min	1.11	10 min	1.11	10 min	1.10
SC-180.01	10 min	0.88	10 min	0.88	10 min	0.88
SC-180.02	10 min	1.49	10 min	1.49	10 min	1.49
SC-180.03	10 min	2.09	10 min	2.09	10 min	2.09
SC-180.04	10 min	3.02	10 min	3.02	10 min	3.02
SC-181.01	20 min	0.38	20 min	0.38	20 min	0.38
SC-181.02	10 min	1.25	10 min	1.25	10 min	1.25
SC-181.03	10 min	2.04	10 min	2.04	10 min	2.04
SC-181.04	10 min	3.79	10 min	3.79	10 min	3.78
SC-181.05	10 min	4.08	10 min	4.08	10 min	4.07
SC-181.06	10 min	4.55	10 min	4.55	10 min	4.54
SC-181.07	10 min	10.03	10 min	10.03	10 min	10.00
SC-181.08	10 min	10.40	10 min	10.40	10 min	10.37
SC-182.01	10 min	0.62	10 min	0.62	10 min	0.62
SC-182.02	10 min	1.00	10 min	1.00	10 min	1.00
SC-182.03	10 min	1.56	10 min	1.56	10 min	1.56
SC-183.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-183.02	10 min	1.34	10 min	1.34	10 min	1.33
SC-183.03	10 min	3.32	10 min	3.32	10 min	3.31
SC-183.04	10 min	3.79	10 min	3.79	10 min	3.78
SC-184.01	10 min	1.43	10 min	1.43	10 min	1.43
SC-185.01	10 min	0.86	10 min	0.86	10 min	0.86
SC-185.02	10 min	1.89	10 min	1.89	10 min	1.88
SC-186.01	10 min	0.30	10 min	0.30	10 min	0.30
SC-187.01	10 min	0.87	10 min	0.87	10 min	0.86
SC-187.02	10 min	1.67	10 min	1.67	10 min	1.66

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	10 min	1.97	10 min	1.97	10 min	1.96
SC-187.04	10 min	2.46	10 min	2.46	10 min	2.45
SC-187.05	10 min	2.93	10 min	2.93	10 min	2.92
SC-188.01	10 min	0.91	10 min	0.91	10 min	0.91
SC-188.02	10 min	1.33	10 min	1.33	10 min	1.33
SC-189.01	10 min	1.03	10 min	1.03	10 min	1.03
SC-189.02	10 min	1.83	10 min	1.83	10 min	1.82
SC-19.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-190.01	10 min	0.45	10 min	0.45	10 min	0.45
SC-191.01	10 min	0.83	10 min	0.83	10 min	0.83
SC-191.02	10 min	1.19	10 min	1.19	10 min	1.18
SC-191.03	10 min	2.18	10 min	2.18	10 min	2.17
SC-191.04	10 min	3.18	10 min	3.19	10 min	3.18
SC-191.05	10 min	4.45	10 min	4.45	10 min	4.43
SC-191.06	10 min	7.65	10 min	7.65	10 min	7.63
SC-191.07	10 min	9.11	10 min	9.11	10 min	9.09
SC-191.08	10 min	9.97	10 min	9.97	10 min	9.95
SC-192.01	10 min	2.59	10 min	2.59	10 min	2.58
SC-193.01	10 min	1.18	10 min	1.18	10 min	1.18
SC-194.01	10 min	1.18	10 min	1.18	10 min	1.18
SC-194.02	20 min	4.77	20 min	4.79	20 min	4.75
SC-194.03	20 min	4.95	20 min	4.96	20 min	4.93
SC-195.01	20 min	1.67	20 min	1.68	20 min	1.66
SC-196.01	10 min	3.86	10 min	3.86	10 min	3.85
SC-197.01	10 min	2.47	10 min	2.47	10 min	2.47
SC-198.01	20 min	2.40	20 min	2.40	20 min	2.39
SC-2.01	10 min	0.53	10 min	0.53	10 min	0.53
SC-20.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-200.01	10 min	0.80	10 min	0.80	10 min	0.80
SC-200.02	10 min	1.41	10 min	1.41	10 min	1.40
SC-200.03	10 min	2.63	10 min	2.63	10 min	2.62
SC-200.04	10 min	3.84	10 min	3.84	10 min	3.83
SC-200.05	10 min	6.29	10 min	6.29	10 min	6.28
SC-200.06	10 min	9.51	10 min	9.52	10 min	9.48
SC-200.07	10 min	11.17	10 min	11.18	10 min	11.14
SC-200.08	10 min	12.58	10 min	12.60	10 min	12.54
SC-200.09	15 min	18.58	15 min	18.62	15 min	18.52
SC-201.01	10 min	1.02	10 min	1.02	10 min	1.02
SC-202.01	10 min	1.05	10 min	1.05	10 min	1.05
SC-203.01	10 min	1.04	10 min	1.04	10 min	1.03
SC-204.01	10 min	1.36	10 min	1.36	10 min	1.35
SC-205.01	20 min	0.55	20 min	0.55	20 min	0.55
SC-206.01	10 min	4.38	10 min	4.39	10 min	4.36
SC-207.01	10 min	0.98	10 min	0.98	10 min	0.97

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	10 min	1.89	10 min	1.89	10 min	1.89
SC-207.03	10 min	2.11	10 min	2.11	10 min	2.10
SC-207.04	10 min	5.77	10 min	5.77	10 min	5.76
SC-207.05	10 min	7.61	10 min	7.61	10 min	7.59
SC-207.06	10 min	8.34	10 min	8.34	10 min	8.32
SC-207.07	10 min	13.97	10 min	13.98	10 min	13.93
SC-207.08	10 min	20.74	10 min	20.75	10 min	20.68
SC-207.09	10 min	23.77	10 min	23.79	10 min	23.71
SC-207.10	15 min	24.60	15 min	24.62	15 min	24.52
SC-207.11	15 min	26.60	15 min	26.63	15 min	26.52
SC-207.12	15 min	38.54	15 min	38.58	15 min	38.42
SC-207.13	15 min	40.73	15 min	40.77	15 min	40.61
SC-207.14	15 min	41.81	15 min	41.86	15 min	41.68
SC-208.01	10 min	1.08	10 min	1.08	10 min	1.07
SC-208.02	10 min	1.51	10 min	1.51	10 min	1.51
SC-208.03	10 min	2.00	10 min	2.00	10 min	2.00
SC-208.04	10 min	3.12	10 min	3.12	10 min	3.11
SC-208.05	10 min	3.57	10 min	3.57	10 min	3.56
SC-209.01	10 min	0.66	10 min	0.66	10 min	0.66
SC-21.01	10 min	0.80	10 min	0.80	10 min	0.80
SC-210.01	10 min	1.49	10 min	1.49	10 min	1.49
SC-210.02	10 min	2.04	10 min	2.04	10 min	2.04
SC-211.01	20 min	0.56	20 min	0.56	20 min	0.56
SC-211.02	25 min	1.25	25 min	1.25	25 min	1.24
SC-211.03	20 min	1.92	20 min	1.93	20 min	1.91
SC-211.04	20 min	2.29	20 min	2.30	20 min	2.28
SC-212.01	1 hour	0.21	1 hour	0.21	1 hour	0.21
SC-212.02	20 min	0.43	20 min	0.43	20 min	0.43
SC-213.01	10 min	0.62	10 min	0.62	10 min	0.61
SC-213.02	10 min	1.02	10 min	1.02	10 min	1.02
SC-214.01	10 min	0.76	10 min	0.76	10 min	0.75
SC-214.02	10 min	1.64	10 min	1.64	10 min	1.64
SC-215.01	10 min	0.60	10 min	0.60	10 min	0.60
SC-215.02	10 min	1.08	10 min	1.08	10 min	1.08
SC-216.01	10 min	0.58	10 min	0.58	10 min	0.57
SC-216.02	10 min	1.73	10 min	1.73	10 min	1.73
SC-216.03	10 min	2.69	10 min	2.69	10 min	2.69
SC-216.04	10 min	3.73	10 min	3.73	10 min	3.72
SC-217.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-218.01	10 min	0.31	10 min	0.31	10 min	0.31
SC-219.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-22.01	10 min	0.45	10 min	0.45	10 min	0.44
SC-220.01	10 min	0.63	10 min	0.63	10 min	0.62
SC-221.01	10 min	0.58	10 min	0.58	10 min	0.58

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	10 min	1.23	10 min	1.23	10 min	1.23
SC-221.03	10 min	1.51	10 min	1.51	10 min	1.51
SC-221.04	10 min	2.21	10 min	2.21	10 min	2.20
SC-221.05	10 min	2.86	10 min	2.86	10 min	2.85
SC-221.06	10 min	2.99	10 min	2.99	10 min	2.98
SC-222.01	10 min	0.63	10 min	0.63	10 min	0.63
SC-222.02	10 min	0.98	10 min	0.98	10 min	0.98
SC-222.03	10 min	2.17	10 min	2.17	10 min	2.16
SC-223.01	10 min	0.27	10 min	0.27	10 min	0.27
SC-224.01	15 min	0.71	15 min	0.71	15 min	0.70
SC-225.01	10 min	0.50	10 min	0.50	10 min	0.49
SC-226.01	10 min	0.37	10 min	0.37	10 min	0.37
SC-226.02	10 min	0.85	10 min	0.85	10 min	0.85
SC-226.03	10 min	1.75	10 min	1.75	10 min	1.74
SC-226.04	10 min	2.63	10 min	2.64	10 min	2.63
SC-226.05	10 min	10.48	10 min	10.48	10 min	10.45
SC-226.06	10 min	11.44	10 min	11.44	10 min	11.41
SC-226.07	10 min	12.46	10 min	12.46	10 min	12.43
SC-226.08	10 min	13.12	10 min	13.12	10 min	13.08
SC-227.01	10 min	0.19	10 min	0.19	10 min	0.19
SC-228.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-229.01	10 min	0.29	10 min	0.29	10 min	0.29
SC-23.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-23.02	10 min	1.71	10 min	1.71	10 min	1.70
SC-23.03	10 min	2.09	10 min	2.09	10 min	2.09
SC-230.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-231.01	10 min	0.31	10 min	0.31	10 min	0.31
SC-232.01	10 min	0.77	10 min	0.77	10 min	0.77
SC-232.02	10 min	1.22	10 min	1.22	10 min	1.22
SC-232.03	10 min	2.85	10 min	2.85	10 min	2.84
SC-233.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-233.02	10 min	0.90	10 min	0.90	10 min	0.90
SC-234.01	10 min	0.80	10 min	0.80	10 min	0.80
SC-234.02	10 min	1.53	10 min	1.53	10 min	1.52
SC-234.03	10 min	4.50	10 min	4.50	10 min	4.49
SC-235.01	10 min	0.30	10 min	0.30	10 min	0.30
SC-236.01	10 min	0.38	10 min	0.38	10 min	0.38
SC-236.02	10 min	0.58	10 min	0.58	10 min	0.58
SC-237.01	10 min	0.51	10 min	0.51	10 min	0.51
SC-237.02	10 min	1.04	10 min	1.04	10 min	1.04
SC-238.01	10 min	0.33	10 min	0.33	10 min	0.33
SC-238.02	10 min	0.75	10 min	0.75	10 min	0.75
SC-239.01	10 min	0.42	10 min	0.42	10 min	0.42
SC-24.01	10 min	0.51	10 min	0.51	10 min	0.51

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	20 min	1.10	20 min	1.10	20 min	1.09
SC-240.02	20 min	1.56	20 min	1.57	20 min	1.56
SC-241.01	15 min	4.53	15 min	4.54	15 min	4.51
SC-242.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-242.02	10 min	1.50	10 min	1.50	10 min	1.49
SC-242.03	10 min	2.22	10 min	2.22	10 min	2.22
SC-242.04	10 min	2.36	10 min	2.36	10 min	2.35
SC-242.05	10 min	5.23	10 min	5.23	10 min	5.22
SC-242.06	10 min	6.67	10 min	6.67	10 min	6.65
SC-242.07	10 min	7.14	10 min	7.14	10 min	7.12
SC-242.08	10 min	14.04	10 min	14.06	10 min	14.00
SC-243.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-243.02	10 min	2.04	10 min	2.04	10 min	2.03
SC-244.01	10 min	0.79	10 min	0.79	10 min	0.79
SC-245.01	10 min	0.42	10 min	0.42	10 min	0.41
SC-246.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-246.02	10 min	0.72	10 min	0.72	10 min	0.72
SC-247.01	10 min	0.75	10 min	0.75	10 min	0.75
SC-247.02	10 min	1.89	10 min	1.89	10 min	1.88
SC-248.01	10 min	0.94	10 min	0.94	10 min	0.93
SC-249.01	20 min	0.22	20 min	0.22	20 min	0.21
SC-249.02	20 min	0.63	20 min	0.63	20 min	0.63
SC-249.03	10 min	1.29	10 min	1.29	10 min	1.29
SC-249.04	10 min	3.25	10 min	3.25	10 min	3.25
SC-249.05	10 min	9.49	10 min	9.49	10 min	9.47
SC-249.06	10 min	16.08	10 min	16.10	10 min	16.03
SC-25.01	10 min	1.56	10 min	1.56	10 min	1.56
SC-25.02	10 min	2.19	10 min	2.19	10 min	2.18
SC-25.03	10 min	2.38	10 min	2.38	10 min	2.38
SC-25.04	10 min	4.00	10 min	4.00	10 min	3.99
SC-250.01	10 min	0.18	10 min	0.18	10 min	0.18
SC-251.01	10 min	0.43	10 min	0.43	10 min	0.43
SC-252.01	10 min	0.49	10 min	0.49	10 min	0.49
SC-252.02	10 min	0.92	10 min	0.92	10 min	0.92
SC-253.01	10 min	0.74	10 min	0.74	10 min	0.74
SC-253.02	10 min	2.64	10 min	2.64	10 min	2.64
SC-253.03	10 min	3.23	10 min	3.23	10 min	3.22
SC-254.01	10 min	0.74	10 min	0.74	10 min	0.74
SC-255.01	10 min	0.69	10 min	0.69	10 min	0.69
SC-256.01	10 min	0.61	10 min	0.61	10 min	0.61
SC-257.01	10 min	0.35	10 min	0.35	10 min	0.34
SC-258.01	10 min	1.58	10 min	1.58	10 min	1.57
SC-258.02	10 min	2.63	10 min	2.63	10 min	2.62
SC-259.01	10 min	0.68	10 min	0.68	10 min	0.68

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	10 min	1.40	10 min	1.40	10 min	1.40
SC-259.03	10 min	1.99	10 min	1.99	10 min	1.99
SC-259.04	10 min	3.62	10 min	3.62	10 min	3.61
SC-259.05	10 min	4.41	10 min	4.42	10 min	4.40
SC-259.06	10 min	5.69	10 min	5.69	10 min	5.68
SC-259.07	10 min	7.17	10 min	7.17	10 min	7.15
SC-259.08	10 min	8.57	10 min	8.57	10 min	8.54
SC-259.09	10 min	22.34	10 min	22.36	10 min	22.28
SC-259.10	10 min	22.72	10 min	22.74	10 min	22.65
SC-26.01	10 min	0.48	10 min	0.48	10 min	0.47
SC-260.01	10 min	0.45	10 min	0.45	10 min	0.45
SC-261.01	10 min	0.58	10 min	0.58	10 min	0.57
SC-262.01	10 min	0.66	10 min	0.66	10 min	0.66
SC-262.02	10 min	1.19	10 min	1.19	10 min	1.18
SC-263.01	10 min	0.70	10 min	0.70	10 min	0.69
SC-264.01	10 min	0.39	10 min	0.39	10 min	0.39
SC-265.01	10 min	0.50	10 min	0.50	10 min	0.50
SC-265.02	20 min	1.20	20 min	1.21	20 min	1.20
SC-265.03	15 min	2.08	15 min	2.08	15 min	2.07
SC-265.04	10 min	10.21	10 min	10.22	10 min	10.18
SC-266.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-266.02	10 min	1.22	10 min	1.22	10 min	1.21
SC-266.03	10 min	1.47	10 min	1.47	10 min	1.47
SC-266.04	10 min	5.60	10 min	5.60	10 min	5.58
SC-266.05	10 min	6.48	10 min	6.48	10 min	6.46
SC-267.01	10 min	0.62	10 min	0.62	10 min	0.62
SC-268.01	10 min	1.04	10 min	1.04	10 min	1.04
SC-268.02	10 min	2.70	10 min	2.70	10 min	2.69
SC-269.01	20 min	0.43	20 min	0.43	20 min	0.43
SC-27.01	10 min	0.49	10 min	0.49	10 min	0.49
SC-270.01	20 min	0.47	20 min	0.47	20 min	0.46
SC-271.01	15 min	0.29	15 min	0.29	15 min	0.28
SC-272.01	20 min	0.71	20 min	0.71	20 min	0.71
SC-272.02	20 min	1.45	20 min	1.45	20 min	1.44
SC-272.03	10 min	2.58	10 min	2.58	10 min	2.57
SC-273.01	10 min	0.73	10 min	0.73	10 min	0.73
SC-274.01	20 min	0.36	20 min	0.36	20 min	0.36
SC-274.02	10 min	1.44	10 min	1.44	10 min	1.44
SC-274.03	10 min	3.48	10 min	3.49	10 min	3.48
SC-274.04	10 min	4.49	10 min	4.49	10 min	4.47
SC-274.05	10 min	5.81	10 min	5.81	10 min	5.80
SC-275.01	10 min	0.68	10 min	0.68	10 min	0.68
SC-276.01	10 min	0.50	10 min	0.50	10 min	0.49
SC-277.01	10 min	0.62	10 min	0.62	10 min	0.62

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	10 min	0.38	10 min	0.38	10 min	0.38
SC-278.02	10 min	5.04	10 min	5.06	10 min	5.03
SC-279.01	10 min	0.66	10 min	0.66	10 min	0.66
SC-279.02	10 min	4.81	10 min	4.82	10 min	4.79
SC-28.01	20 min	0.41	20 min	0.42	20 min	0.41
SC-28.02	20 min	0.92	20 min	0.92	20 min	0.92
SC-28.03	20 min	1.29	20 min	1.29	20 min	1.29
SC-28.04	10 min	2.82	10 min	2.82	10 min	2.81
SC-280.01	10 min	0.62	10 min	0.62	10 min	0.62
SC-29.01	10 min	0.48	10 min	0.48	10 min	0.47
SC-29.02	10 min	1.29	10 min	1.29	10 min	1.29
SC-3.01	10 min	0.55	10 min	0.55	10 min	0.55
SC-3.02	15 min	1.73	15 min	1.73	15 min	1.73
SC-30.01	10 min	0.85	10 min	0.85	10 min	0.85
SC-30.02	10 min	1.52	10 min	1.52	10 min	1.52
SC-30.03	10 min	2.10	10 min	2.10	10 min	2.10
SC-30.04	10 min	2.66	10 min	2.66	10 min	2.66
SC-31.01	10 min	0.56	10 min	0.56	10 min	0.55
SC-31.02	10 min	1.15	10 min	1.15	10 min	1.15
SC-32.01	15 min	0.48	15 min	0.48	15 min	0.48
SC-32.02	15 min	0.71	15 min	0.71	15 min	0.71
SC-33.01	10 min	0.71	10 min	0.71	10 min	0.71
SC-33.02	10 min	1.61	10 min	1.61	10 min	1.61
SC-34.01	10 min	0.55	10 min	0.55	10 min	0.55
SC-34.02	10 min	1.11	10 min	1.11	10 min	1.11
SC-34.03	10 min	1.32	10 min	1.32	10 min	1.31
SC-35.01	10 min	0.52	10 min	0.52	10 min	0.52
SC-35.02	10 min	1.39	10 min	1.39	10 min	1.39
SC-35.03	10 min	2.22	10 min	2.22	10 min	2.21
SC-35.04	10 min	2.37	10 min	2.37	10 min	2.37
SC-36.01	10 min	1.08	10 min	1.08	10 min	1.08
SC-36.02	10 min	1.95	10 min	1.95	10 min	1.94
SC-37.01	10 min	0.42	10 min	0.42	10 min	0.41
SC-37.02	10 min	1.15	10 min	1.16	10 min	1.15
SC-38.01	10 min	0.48	10 min	0.48	10 min	0.48
SC-39.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-4.01	20 min	0.61	20 min	0.61	20 min	0.61
SC-40.01	10 min	0.66	10 min	0.66	10 min	0.66
SC-41.01	10 min	0.44	10 min	0.44	10 min	0.43
SC-42.01	10 min	1.48	10 min	1.48	10 min	1.47
SC-43.01	10 min	0.32	10 min	0.32	10 min	0.32
SC-44.01	10 min	1.01	10 min	1.01	10 min	1.01
SC-44.02	10 min	1.58	10 min	1.58	10 min	1.58
SC-44.03	10 min	2.17	10 min	2.17	10 min	2.17

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	10 min	3.35	10 min	3.35	10 min	3.34
SC-44.05	10 min	5.80	10 min	5.80	10 min	5.79
SC-44.06	10 min	6.13	10 min	6.13	10 min	6.12
SC-44.07	10 min	6.82	10 min	6.82	10 min	6.80
SC-44.08	10 min	8.82	10 min	8.82	10 min	8.79
SC-44.09	10 min	9.12	10 min	9.12	10 min	9.09
SC-44.10	12 hours	2.42	12 hours	2.44	12 hours	2.10
SC-44.11	45 min	12.48	45 min	12.50	45 min	12.42
SC-44.12	12 hours	5.67	12 hours	5.73	12 hours	5.18
SC-44.13	12 hours	5.75	12 hours	5.81	12 hours	5.23
SC-44.14	12 hours	6.49	12 hours	6.56	12 hours	5.83
SC-44.15	12 hours	4.64	12 hours	4.74	12 hours	3.48
SC-44.16	12 hours	4.66	12 hours	4.75	12 hours	3.50
SC-44.17	15 min	8.32	15 min	8.32	15 min	8.30
SC-44.18	15 min	8.86	15 min	8.87	15 min	8.84
SC-44.19	15 min	10.10	15 min	10.11	15 min	10.07
SC-44.20	25 min	9.34	25 min	9.35	25 min	9.32
SC-45.01	10 min	0.74	10 min	0.74	10 min	0.74
SC-46.01	10 min	0.61	10 min	0.61	10 min	0.61
SC-46.02	10 min	1.03	10 min	1.03	10 min	1.03
SC-46.03	10 min	1.55	10 min	1.55	10 min	1.55
SC-46.04	10 min	1.74	10 min	1.74	10 min	1.74
SC-47.01	10 min	0.99	10 min	0.99	10 min	0.99
SC-48.01	10 min	0.75	10 min	0.75	10 min	0.75
SC-48.02	10 min	1.17	10 min	1.18	10 min	1.17
SC-49.01	10 min	0.84	10 min	0.84	10 min	0.84
SC-5.01	10 min	0.53	10 min	0.53	10 min	0.52
SC-50.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-51.01	10 min	0.29	10 min	0.29	10 min	0.29
SC-52.01	10 min	0.29	10 min	0.29	10 min	0.29
SC-53.01	10 min	0.72	10 min	0.72	10 min	0.72
SC-53.02	10 min	1.45	10 min	1.45	10 min	1.45
SC-53.03	10 min	1.76	10 min	1.76	10 min	1.76
SC-54.01	10 min	0.59	10 min	0.59	10 min	0.58
SC-54.02	10 min	1.10	10 min	1.10	10 min	1.10
SC-55.01	10 min	0.91	10 min	0.91	10 min	0.91
SC-56.01	10 min	0.42	10 min	0.42	10 min	0.42
SC-57.01	10 min	0.31	10 min	0.31	10 min	0.31
SC-58.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-59.01	10 min	0.79	10 min	0.79	10 min	0.79
SC-59.02	10 min	1.49	10 min	1.49	10 min	1.49
SC-59.03	10 min	2.18	10 min	2.18	10 min	2.17
SC-59.04	10 min	2.82	10 min	2.82	10 min	2.82
SC-59.05	10 min	5.96	10 min	5.97	10 min	5.95

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	10 min	6.84	10 min	6.84	10 min	6.82
SC-59.07	10 min	11.45	10 min	11.46	10 min	11.42
SC-59.08	15 min	11.49	15 min	11.50	15 min	11.45
SC-59.09	15 min	14.04	15 min	14.05	15 min	13.99
SC-59.10	25 min	12.35	25 min	12.37	25 min	12.27
SC-6.01	10 min	0.69	10 min	0.69	10 min	0.68
SC-60.01	10 min	0.53	10 min	0.53	10 min	0.53
SC-60.02	10 min	2.10	10 min	2.11	10 min	2.10
SC-61.01	10 min	1.10	10 min	1.10	10 min	1.09
SC-62.01	10 min	0.70	10 min	0.70	10 min	0.70
SC-63.01	10 min	0.40	10 min	0.40	10 min	0.40
SC-64.01	10 min	0.53	10 min	0.53	10 min	0.53
SC-64.02	10 min	1.76	10 min	1.76	10 min	1.75
SC-64.03	10 min	3.31	10 min	3.31	10 min	3.30
SC-64.04	10 min	4.60	10 min	4.60	10 min	4.59
SC-65.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-66.01	10 min	0.32	10 min	0.32	10 min	0.32
SC-66.02	15 min	0.72	15 min	0.72	15 min	0.72
SC-67.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-68.01	10 min	0.81	10 min	0.81	10 min	0.81
SC-68.02	10 min	1.52	10 min	1.52	10 min	1.52
SC-68.03	10 min	2.77	10 min	2.77	10 min	2.77
SC-69.01	10 min	0.70	10 min	0.70	10 min	0.70
SC-7.01	10 min	0.90	10 min	0.90	10 min	0.90
SC-70.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-70.02	10 min	1.02	10 min	1.02	10 min	1.02
SC-71.01	10 min	0.81	10 min	0.81	10 min	0.80
SC-71.02	10 min	1.53	10 min	1.53	10 min	1.53
SC-72.01	10 min	0.87	10 min	0.87	10 min	0.87
SC-73.01	10 min	0.70	10 min	0.70	10 min	0.70
SC-74.01	10 min	0.81	10 min	0.81	10 min	0.81
SC-75.01	10 min	0.47	10 min	0.47	10 min	0.47
SC-75.02	10 min	1.91	10 min	1.91	10 min	1.91
SC-75.03	10 min	2.72	10 min	2.72	10 min	2.71
SC-75.04	10 min	4.69	10 min	4.69	10 min	4.68
SC-76.01	10 min	0.65	10 min	0.65	10 min	0.65
SC-77.01	10 min	0.96	10 min	0.96	10 min	0.95
SC-77.02	10 min	1.45	10 min	1.45	10 min	1.44
SC-77.03	10 min	2.01	10 min	2.01	10 min	2.00
SC-78.01	10 min	0.90	10 min	0.90	10 min	0.90
SC-79.01	10 min	0.96	10 min	0.96	10 min	0.96
SC-79.02	10 min	1.78	10 min	1.78	10 min	1.78
SC-79.03	10 min	3.90	10 min	3.90	10 min	3.89
SC-8.01	10 min	0.76	10 min	0.76	10 min	0.76

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	10 min	1.82	10 min	1.82	10 min	1.82
SC-8.03	10 min	4.76	10 min	4.76	10 min	4.75
SC-8.04	10 min	8.34	10 min	8.34	10 min	8.32
SC-8.05	10 min	9.11	10 min	9.11	10 min	9.09
SC-8.06	10 min	9.46	10 min	9.46	10 min	9.44
SC-80.01	10 min	0.94	10 min	0.94	10 min	0.94
SC-80.02	10 min	1.86	10 min	1.86	10 min	1.86
SC-81.01	10 min	0.70	10 min	0.70	10 min	0.70
SC-81.02	10 min	2.07	10 min	2.07	10 min	2.06
SC-82.01	10 min	0.84	10 min	0.84	10 min	0.83
SC-83.01	10 min	0.53	10 min	0.53	10 min	0.53
SC-84.01	10 min	0.79	10 min	0.79	10 min	0.78
SC-84.02	10 min	1.92	10 min	1.92	10 min	1.92
SC-84.03	10 min	2.54	10 min	2.54	10 min	2.54
SC-84.04	10 min	3.01	10 min	3.01	10 min	3.00
SC-84.05	10 min	3.56	10 min	3.57	10 min	3.56
SC-84.06	10 min	3.93	10 min	3.93	10 min	3.92
SC-85.01	10 min	0.49	10 min	0.49	10 min	0.49
SC-86.01	10 min	0.75	10 min	0.75	10 min	0.75
SC-86.02	10 min	1.44	10 min	1.44	10 min	1.43
SC-87.01	10 min	1.10	10 min	1.10	10 min	1.09
SC-87.02	10 min	1.84	10 min	1.84	10 min	1.83
SC-88.01	10 min	0.49	10 min	0.49	10 min	0.49
SC-88.02	10 min	0.80	10 min	0.80	10 min	0.79
SC-89.01	10 min	0.54	10 min	0.54	10 min	0.54
SC-89.02	10 min	0.59	10 min	0.59	10 min	0.59
SC-9.01	10 min	0.71	10 min	0.71	10 min	0.70
SC-90.01	10 min	0.21	10 min	0.21	10 min	0.21
SC-91.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-91.02	10 min	1.31	10 min	1.31	10 min	1.31
SC-92.01	10 min	0.63	10 min	0.63	10 min	0.63
SC-92.02	10 min	1.75	10 min	1.75	10 min	1.74
SC-93.01	10 min	0.69	10 min	0.69	10 min	0.68
SC-94.01	10 min	0.76	10 min	0.76	10 min	0.76
SC-94.02	10 min	1.75	10 min	1.75	10 min	1.75
SC-95.01	10 min	0.45	10 min	0.45	10 min	0.45
SC-95.02	10 min	1.09	10 min	1.09	10 min	1.09
SC-96.01	10 min	0.50	10 min	0.50	10 min	0.50
SC-97.01	10 min	0.34	10 min	0.34	10 min	0.34
SC-97.02	10 min	1.94	10 min	1.94	10 min	1.93
SC-98.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-99.01	10 min	0.57	10 min	0.57	10 min	0.57
SC-99.02	10 min	1.54	10 min	1.54	10 min	1.53
SC-99.03	10 min	2.64	10 min	2.64	10 min	2.63

Continuing Loss Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Continuing Loss Sensitivity Results			
			CL Reduced by 0.5mm/hr		CL Increased by 0.5mm/hr	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	10 min	7.03	10 min	7.03	10 min	7.01
Dummy1	15 min	35.32	15 min	35.37	15 min	35.22
Dummy2	25 min	55.39	25 min	55.50	25 min	55.17
Dummy3	30 min	106.76	30 min	106.93	30 min	106.32
DummyOut	1.50 hour	113.93	1.50 hour	114.33	1.50 hour	112.96

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.93	10 min	0.81	20 min	1.12
SC-1.02	10 min	2.00	10 min	1.79	20 min	2.43
SC-1.03	10 min	2.38	10 min	2.09	20 min	2.86
SC-1.04	10 min	6.27	10 min	5.81	20 min	7.91
SC-1.05	10 min	6.82	10 min	6.18	20 min	8.31
SC-1.06	10 min	7.79	10 min	7.21	20 min	9.41
SC-1.07	10 min	7.91	10 min	7.31	20 min	9.44
SC-1.08	45 min	8.71	45 min	8.23	45 min	9.53
SC-1.09	45 min	9.35	45 min	9.10	45 min	10.20
SC-1.10	45 min	9.36	45 min	9.23	45 min	10.23
SC-1.11	10 min	13.59	10 min	13.24	20 min	15.93
SC-1.12	10 min	16.99	10 min	16.52	20 min	19.44
SC-1.13	10 min	19.43	10 min	19.00	20 min	21.29
SC-1.14	10 min	23.13	10 min	22.87	20 min	25.00
SC-1.15	10 min	25.02	10 min	25.00	20 min	27.26
SC-1.16	15 min	28.64	20 min	26.60	60 min	29.83
SC-1.17	15 min	28.95	20 min	27.14	60 min	30.38
SC-1.18	30 min	18.10	20 min	17.65	60 min	19.32
SC-1.19	1 hour	22.75	60 min	22.21	60 min	22.65
SC-1.20	1 hour	20.73	60 min	20.70	60 min	21.12
SC-1.21	1 hour	20.74	60 min	20.72	60 min	21.14
SC-1.22	1.50 hour	20.92	60 min	20.79	60 min	21.23
SC-1.23	1.50 hour	23.45	120 min	22.59	20 min	24.98
SC-1.24	20 min	31.77	10 min	30.90	20 min	37.26
SC-1.25	25 min	32.54	10 min	31.05	20 min	37.39
SC-1.26	25 min	35.37	20 min	32.92	45 min	38.95
SC-1.27	25 min	35.95	20 min	33.48	45 min	39.68
SC-1.28	15 min	47.23	20 min	46.32	60 min	51.53
SC-1.29	25 min	49.56	20 min	50.15	60 min	54.72
SC-1.30	25 min	50.66	20 min	50.99	60 min	55.37
SC-1.31	25 min	51.58	20 min	51.48	60 min	55.81
SC-1.32	25 min	52.64	20 min	52.16	45 min	56.54
SC-1.33	30 min	54.45	20 min	52.99	45 min	57.70
SC-1.34	30 min	54.52	20 min	53.04	60 min	58.00
SC-1.35	30 min	54.65	20 min	53.14	60 min	58.45
SC-1.36	30 min	57.49	20 min	53.68	60 min	61.33
SC-10.01	10 min	0.97	10 min	0.84	20 min	1.08
SC-100.01	10 min	1.14	10 min	1.00	20 min	1.23
SC-100.02	10 min	1.95	10 min	1.70	20 min	2.21
SC-101.01	10 min	1.18	10 min	1.05	20 min	1.35
SC-101.02	10 min	2.05	10 min	1.91	20 min	2.49
SC-102.01	10 min	0.94	10 min	0.82	20 min	1.03
SC-102.02	10 min	3.50	10 min	3.18	20 min	4.10
SC-103.01	10 min	0.63	10 min	0.55	20 min	0.69

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	10 min	2.17	10 min	1.95	20 min	2.53
SC-104.01	10 min	0.56	10 min	0.49	20 min	0.63
SC-105.01	10 min	0.60	10 min	0.53	20 min	0.67
SC-105.02	10 min	1.41	10 min	1.29	20 min	1.67
SC-105.03	10 min	3.29	10 min	3.00	20 min	3.89
SC-105.04	10 min	4.44	10 min	4.07	20 min	5.24
SC-105.05	10 min	5.26	10 min	4.96	20 min	6.40
SC-105.06	10 min	5.54	10 min	5.33	20 min	7.01
SC-105.07	15 min	8.11	10 min	7.83	20 min	10.21
SC-105.08	15 min	9.32	10 min	8.96	20 min	10.76
SC-105.09	10 min	12.28	10 min	12.28	60 min	13.05
SC-106.01	10 min	0.44	10 min	0.38	20 min	0.49
SC-107.01	10 min	0.76	10 min	0.67	20 min	0.86
SC-108.01	10 min	0.56	10 min	0.49	20 min	0.61
SC-109.01	10 min	0.73	10 min	0.63	20 min	0.81
SC-11.01	10 min	0.59	10 min	0.52	20 min	0.67
SC-110.01	10 min	0.67	10 min	0.58	20 min	0.74
SC-110.02	10 min	1.50	10 min	1.37	20 min	1.80
SC-110.03	10 min	1.64	10 min	1.48	20 min	1.94
SC-111.01	20 min	0.45	20 min	0.43	20 min	0.59
SC-112.01	10 min	1.13	10 min	0.98	20 min	1.26
SC-113.01	10 min	0.41	10 min	0.36	20 min	0.46
SC-113.02	10 min	1.30	10 min	1.21	20 min	1.62
SC-114.01	10 min	0.71	10 min	0.63	20 min	0.86
SC-114.02	10 min	1.14	10 min	1.02	20 min	1.37
SC-114.03	10 min	2.34	10 min	2.08	20 min	2.78
SC-115.01	10 min	0.65	10 min	0.56	20 min	0.72
SC-115.02	10 min	1.04	10 min	0.92	20 min	1.20
SC-116.01	10 min	0.64	10 min	0.56	20 min	0.71
SC-116.02	10 min	1.03	10 min	0.90	20 min	1.19
SC-117.01	10 min	0.38	10 min	0.33	20 min	0.42
SC-118.01	10 min	0.83	10 min	0.72	20 min	0.89
SC-119.01	10 min	1.26	10 min	1.09	20 min	1.41
SC-119.02	10 min	3.14	10 min	2.74	20 min	3.59
SC-12.01	10 min	0.69	10 min	0.60	20 min	0.77
SC-12.02	10 min	1.20	10 min	1.05	20 min	1.33
SC-12.03	10 min	2.19	10 min	1.90	20 min	2.51
SC-12.04	10 min	2.79	10 min	2.42	20 min	3.24
SC-120.01	10 min	0.57	10 min	0.49	20 min	0.63
SC-121.01	10 min	0.71	10 min	0.62	20 min	0.79
SC-122.01	10 min	1.16	10 min	1.00	20 min	1.23
SC-122.02	10 min	1.79	10 min	1.56	20 min	2.03
SC-122.03	10 min	2.41	10 min	2.08	20 min	2.80
SC-123.01	10 min	0.58	10 min	0.51	20 min	0.64

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	10 min	1.62	10 min	1.43	20 min	1.88
SC-123.03	10 min	10.91	10 min	10.22	20 min	13.80
SC-123.04	10 min	11.19	10 min	10.36	20 min	13.98
SC-123.05	10 min	14.12	10 min	12.99	20 min	17.16
SC-123.06	10 min	14.54	10 min	13.53	20 min	17.25
SC-123.07	10 min	15.60	10 min	14.62	20 min	17.88
SC-124.01	20 min	0.70	20 min	0.66	20 min	0.91
SC-124.02	20 min	4.51	10 min	4.15	20 min	5.97
SC-125.01	20 min	0.97	20 min	0.91	20 min	1.26
SC-126.01	10 min	0.54	10 min	0.47	20 min	0.59
SC-126.02	20 min	1.30	20 min	1.19	20 min	1.69
SC-126.03	20 min	2.40	10 min	2.25	20 min	3.20
SC-127.01	10 min	1.28	10 min	1.11	20 min	1.37
SC-127.02	10 min	3.43	10 min	2.99	20 min	3.80
SC-128.01	10 min	1.25	10 min	1.09	20 min	1.37
SC-129.01	10 min	0.61	10 min	0.57	20 min	0.74
SC-13.01	10 min	0.63	10 min	0.55	20 min	0.70
SC-130.01	10 min	0.94	10 min	0.81	20 min	1.03
SC-131.01	10 min	0.37	10 min	0.32	20 min	0.40
SC-132.01	10 min	0.52	10 min	0.45	20 min	0.58
SC-133.01	10 min	0.38	10 min	0.33	20 min	0.41
SC-134.01	10 min	0.32	10 min	0.27	20 min	0.36
SC-134.02	10 min	1.02	10 min	1.01	20 min	1.17
SC-134.03	10 min	2.07	10 min	2.04	20 min	2.54
SC-134.04	10 min	2.93	10 min	2.89	20 min	3.70
SC-135.01	10 min	0.25	10 min	0.22	20 min	0.28
SC-135.02	10 min	1.39	10 min	1.23	20 min	1.63
SC-135.03	10 min	1.83	10 min	1.63	20 min	2.14
SC-135.04	10 min	4.06	10 min	3.59	20 min	4.77
SC-135.05	10 min	4.60	10 min	4.17	20 min	5.21
SC-135.06	10 min	7.50	10 min	7.07	20 min	8.83
SC-136.01	10 min	0.76	10 min	0.66	20 min	0.84
SC-137.01	10 min	0.77	10 min	0.67	20 min	0.86
SC-138.01	10 min	0.92	10 min	0.79	20 min	1.06
SC-139.01	10 min	0.90	10 min	0.79	20 min	1.03
SC-139.02	10 min	1.09	10 min	0.95	20 min	1.27
SC-14.01	10 min	1.11	10 min	0.97	20 min	1.22
SC-14.02	10 min	1.69	10 min	1.48	20 min	1.94
SC-14.03	10 min	2.21	10 min	1.94	20 min	2.58
SC-140.01	10 min	0.64	10 min	0.55	20 min	0.71
SC-141.01	10 min	1.04	10 min	1.02	20 min	1.27
SC-142.01	20 min	1.55	20 min	1.45	20 min	2.05
SC-143.01	20 min	0.61	20 min	0.53	20 min	0.77
SC-143.02	10 min	4.94	10 min	4.83	20 min	6.38

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	10 min	0.73	10 min	0.64	20 min	0.88
SC-144.02	10 min	1.04	10 min	0.92	20 min	1.27
SC-144.03	10 min	1.38	10 min	1.29	20 min	1.59
SC-144.04	10 min	2.44	10 min	2.42	20 min	2.68
SC-144.05	10 min	4.60	10 min	4.57	20 min	5.23
SC-145.01	10 min	0.94	10 min	0.81	20 min	1.05
SC-145.02	10 min	1.74	10 min	1.49	20 min	1.97
SC-146.01	15 min	1.75	20 min	1.69	20 min	2.26
SC-147.01	10 min	0.92	10 min	0.90	20 min	1.12
SC-147.02	10 min	1.25	10 min	1.23	20 min	1.56
SC-147.03	10 min	3.19	10 min	3.13	20 min	3.99
SC-148.01	10 min	0.78	10 min	0.68	20 min	0.88
SC-148.02	10 min	1.67	10 min	1.63	20 min	2.09
SC-149.01	10 min	0.56	10 min	0.50	20 min	0.71
SC-149.02	10 min	1.83	10 min	1.79	20 min	2.30
SC-15.01	10 min	1.13	10 min	0.97	20 min	1.26
SC-15.02	10 min	1.48	10 min	1.28	20 min	1.68
SC-15.03	10 min	2.33	10 min	2.02	20 min	2.71
SC-150.01	10 min	0.68	10 min	0.59	20 min	0.75
SC-150.02	10 min	1.31	10 min	1.13	20 min	1.52
SC-150.03	10 min	3.32	10 min	2.93	20 min	3.90
SC-150.04	10 min	4.30	10 min	3.80	20 min	4.97
SC-150.05	10 min	5.94	10 min	5.38	20 min	6.92
SC-150.06	10 min	11.00	10 min	10.18	20 min	12.43
SC-150.07	10 min	17.06	10 min	16.20	20 min	20.28
SC-150.08	2 hours	9.68	45 min	8.74	120 min	9.51
SC-150.09	2 hours	10.19	45 min	8.95	120 min	10.12
SC-150.10	2 hours	12.14	45 min	11.03	120 min	12.11
SC-150.11	10 min	18.60	10 min	17.75	20 min	20.91
SC-150.12	10 min	29.36	10 min	27.88	20 min	32.54
SC-150.13	15 min	33.27	10 min	32.00	20 min	35.51
SC-150.14	15 min	49.84	20 min	46.17	60 min	52.32
SC-150.15	15 min	50.19	20 min	46.88	60 min	53.17
SC-150.16	15 min	52.64	20 min	49.56	60 min	55.84
SC-150.17	15 min	53.46	20 min	50.49	60 min	56.77
SC-151.01	10 min	0.91	10 min	0.79	20 min	1.00
SC-151.02	10 min	1.38	10 min	1.20	20 min	1.58
SC-152.01	10 min	0.80	10 min	0.69	20 min	0.90
SC-153.01	10 min	0.65	10 min	0.57	20 min	0.72
SC-153.02	10 min	1.52	10 min	1.33	20 min	1.77
SC-154.01	10 min	1.19	10 min	1.03	20 min	1.40
SC-154.02	10 min	3.98	10 min	3.60	20 min	4.75
SC-155.01	10 min	0.43	10 min	0.42	20 min	0.54
SC-155.02	10 min	1.25	10 min	1.15	20 min	1.51

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	10 min	0.49	10 min	0.42	20 min	0.56
SC-157.01	10 min	0.57	10 min	0.50	20 min	0.66
SC-158.01	10 min	0.77	10 min	0.67	20 min	0.85
SC-158.02	10 min	0.98	10 min	0.85	20 min	1.13
SC-158.03	10 min	2.13	10 min	1.89	20 min	2.49
SC-158.04	10 min	3.96	10 min	3.46	20 min	4.67
SC-159.01	10 min	0.61	10 min	0.53	20 min	0.68
SC-16.01	10 min	0.73	10 min	0.64	20 min	0.81
SC-160.01	10 min	0.59	10 min	0.52	20 min	0.65
SC-160.02	10 min	1.32	10 min	1.16	20 min	1.54
SC-161.01	10 min	0.72	10 min	0.63	20 min	0.79
SC-161.02	10 min	1.36	10 min	1.19	20 min	1.56
SC-162.01	10 min	0.84	10 min	0.72	20 min	0.96
SC-163.01	10 min	0.47	10 min	0.46	20 min	0.61
SC-163.02	10 min	0.90	10 min	0.88	20 min	1.16
SC-163.03	10 min	1.48	10 min	1.41	20 min	1.86
SC-163.04	10 min	2.11	10 min	1.90	20 min	2.55
SC-163.05	10 min	3.65	10 min	3.28	20 min	4.36
SC-164.01	10 min	0.72	10 min	0.63	20 min	0.84
SC-165.01	10 min	0.62	10 min	0.53	20 min	0.71
SC-165.02	10 min	1.60	10 min	1.39	20 min	1.84
SC-165.03	10 min	2.09	10 min	1.80	20 min	2.41
SC-165.04	10 min	4.46	10 min	4.03	20 min	5.10
SC-165.05	10 min	7.50	10 min	6.84	20 min	8.66
SC-166.01	10 min	0.56	10 min	0.49	20 min	0.65
SC-167.01	10 min	0.85	10 min	0.74	20 min	0.94
SC-167.02	10 min	2.15	10 min	1.88	20 min	2.46
SC-168.01	10 min	0.70	10 min	0.60	20 min	0.77
SC-169.01	10 min	0.63	10 min	0.54	20 min	0.72
SC-169.02	10 min	1.16	10 min	1.02	20 min	1.38
SC-169.03	10 min	2.62	10 min	2.25	20 min	3.01
SC-17.01	10 min	0.64	10 min	0.56	20 min	0.71
SC-17.02	10 min	1.10	10 min	0.96	20 min	1.27
SC-17.03	10 min	1.84	10 min	1.63	20 min	2.16
SC-17.04	10 min	4.38	10 min	4.00	20 min	5.22
SC-17.05	10 min	6.01	10 min	5.59	20 min	7.15
SC-17.06	10 min	6.75	10 min	6.40	20 min	7.96
SC-17.07	10 min	7.26	10 min	6.86	20 min	8.27
SC-170.01	10 min	0.57	10 min	0.50	20 min	0.64
SC-171.01	10 min	0.41	10 min	0.36	20 min	0.44
SC-172.01	10 min	0.82	10 min	0.72	20 min	0.89
SC-172.02	10 min	1.38	10 min	1.21	20 min	1.55
SC-173.01	20 min	0.89	20 min	0.85	20 min	1.02
SC-173.02	20 min	1.79	20 min	1.63	20 min	2.29

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	20 min	1.85	20 min	1.64	20 min	2.31
SC-173.04	10 min	3.07	10 min	2.79	20 min	3.89
SC-173.05	10 min	3.58	10 min	3.32	20 min	3.98
SC-174.01	10 min	0.53	10 min	0.46	20 min	0.57
SC-175.01	10 min	0.92	10 min	0.80	20 min	1.01
SC-175.02	10 min	1.86	10 min	1.60	20 min	2.15
SC-175.03	10 min	2.99	10 min	2.59	20 min	3.51
SC-175.04	10 min	3.67	10 min	3.19	20 min	4.29
SC-175.05	10 min	4.12	10 min	3.75	20 min	4.56
SC-176.01	10 min	0.38	10 min	0.36	20 min	0.51
SC-177.01	10 min	0.51	10 min	0.45	20 min	0.56
SC-177.02	10 min	1.34	10 min	1.21	20 min	1.58
SC-177.03	10 min	3.68	10 min	3.26	20 min	4.31
SC-177.04	10 min	5.02	10 min	4.44	20 min	5.92
SC-178.01	10 min	1.12	10 min	0.97	20 min	1.25
SC-178.02	10 min	1.66	10 min	1.47	20 min	1.94
SC-179.01	10 min	0.91	10 min	0.80	20 min	1.01
SC-18.01	10 min	0.71	10 min	0.62	20 min	0.79
SC-18.02	10 min	1.11	10 min	1.01	20 min	1.30
SC-180.01	10 min	0.88	10 min	0.77	20 min	0.98
SC-180.02	10 min	1.49	10 min	1.32	20 min	1.77
SC-180.03	10 min	2.09	10 min	1.86	20 min	2.49
SC-180.04	10 min	3.02	10 min	2.64	20 min	3.60
SC-181.01	20 min	0.38	10 min	0.36	20 min	0.51
SC-181.02	10 min	1.25	10 min	1.15	20 min	1.56
SC-181.03	10 min	2.04	10 min	1.81	20 min	2.46
SC-181.04	10 min	3.79	10 min	3.40	20 min	4.62
SC-181.05	10 min	4.08	10 min	3.89	20 min	4.70
SC-181.06	10 min	4.55	10 min	4.31	20 min	4.76
SC-181.07	10 min	10.03	10 min	9.79	20 min	11.30
SC-181.08	10 min	10.40	10 min	10.20	20 min	11.37
SC-182.01	10 min	0.62	10 min	0.54	20 min	0.70
SC-182.02	10 min	1.00	10 min	0.89	20 min	1.18
SC-182.03	10 min	1.56	10 min	1.49	20 min	2.06
SC-183.01	10 min	0.59	10 min	0.54	20 min	0.75
SC-183.02	10 min	1.34	10 min	1.19	20 min	1.61
SC-183.03	10 min	3.32	10 min	2.99	20 min	3.88
SC-183.04	10 min	3.79	10 min	3.50	20 min	4.26
SC-184.01	10 min	1.43	10 min	1.24	20 min	1.66
SC-185.01	10 min	0.86	10 min	0.75	20 min	0.95
SC-185.02	10 min	1.89	10 min	1.64	20 min	2.20
SC-186.01	10 min	0.30	10 min	0.26	20 min	0.33
SC-187.01	10 min	0.87	10 min	0.76	20 min	0.95
SC-187.02	10 min	1.67	10 min	1.45	20 min	1.94

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	10 min	1.97	10 min	1.75	20 min	2.17
SC-187.04	10 min	2.46	10 min	2.41	10 min	2.46
SC-187.05	10 min	2.93	10 min	2.93	10 min	2.79
SC-188.01	10 min	0.91	10 min	0.79	20 min	1.01
SC-188.02	10 min	1.33	10 min	1.17	20 min	1.53
SC-189.01	10 min	1.03	10 min	0.90	20 min	1.14
SC-189.02	10 min	1.83	10 min	1.59	20 min	2.10
SC-19.01	10 min	0.41	10 min	0.40	20 min	0.52
SC-190.01	10 min	0.45	10 min	0.39	20 min	0.49
SC-191.01	10 min	0.83	10 min	0.72	20 min	0.91
SC-191.02	10 min	1.19	10 min	1.03	20 min	1.35
SC-191.03	10 min	2.18	10 min	1.94	20 min	2.56
SC-191.04	10 min	3.18	10 min	2.81	20 min	3.77
SC-191.05	10 min	4.45	10 min	3.97	20 min	5.17
SC-191.06	10 min	7.65	10 min	6.91	20 min	8.99
SC-191.07	10 min	9.11	10 min	8.61	20 min	11.03
SC-191.08	10 min	9.97	10 min	9.33	20 min	11.51
SC-192.01	10 min	2.59	10 min	2.22	20 min	3.01
SC-193.01	10 min	1.18	10 min	1.03	20 min	1.41
SC-194.01	10 min	1.18	10 min	1.12	20 min	1.56
SC-194.02	20 min	4.77	20 min	4.58	20 min	5.67
SC-194.03	20 min	4.95	20 min	4.85	20 min	5.91
SC-195.01	20 min	1.67	20 min	1.61	20 min	1.92
SC-196.01	10 min	3.86	10 min	3.43	20 min	4.81
SC-197.01	10 min	2.47	10 min	2.41	20 min	3.31
SC-198.01	20 min	2.40	20 min	2.32	20 min	3.02
SC-2.01	10 min	0.53	10 min	0.52	20 min	0.70
SC-20.01	10 min	0.56	10 min	0.49	20 min	0.62
SC-200.01	10 min	0.80	10 min	0.70	20 min	0.93
SC-200.02	10 min	1.41	10 min	1.22	20 min	1.62
SC-200.03	10 min	2.63	10 min	2.32	20 min	3.16
SC-200.04	10 min	3.84	10 min	3.53	20 min	4.75
SC-200.05	10 min	6.29	10 min	5.71	20 min	7.31
SC-200.06	10 min	9.51	10 min	9.37	20 min	11.81
SC-200.07	10 min	11.17	10 min	11.00	20 min	13.86
SC-200.08	10 min	12.58	10 min	12.43	20 min	15.52
SC-200.09	15 min	18.58	10 min	18.45	20 min	21.04
SC-201.01	10 min	1.02	10 min	0.89	20 min	1.13
SC-202.01	10 min	1.05	10 min	0.91	20 min	1.13
SC-203.01	10 min	1.04	10 min	0.90	20 min	1.18
SC-204.01	10 min	1.36	10 min	1.33	20 min	1.70
SC-205.01	20 min	0.55	20 min	0.51	20 min	0.73
SC-206.01	10 min	4.38	10 min	4.32	20 min	5.51
SC-207.01	10 min	0.98	10 min	0.84	20 min	1.10

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	10 min	1.89	10 min	1.67	20 min	2.22
SC-207.03	10 min	2.11	10 min	1.86	20 min	2.54
SC-207.04	10 min	5.77	10 min	5.51	20 min	6.53
SC-207.05	10 min	7.61	10 min	7.53	20 min	8.57
SC-207.06	10 min	8.34	10 min	8.30	20 min	8.81
SC-207.07	10 min	13.97	10 min	13.84	20 min	16.05
SC-207.08	10 min	20.74	10 min	20.57	20 min	23.19
SC-207.09	10 min	23.77	10 min	23.50	20 min	26.27
SC-207.10	15 min	24.60	10 min	24.13	20 min	26.71
SC-207.11	15 min	26.60	10 min	25.74	60 min	27.81
SC-207.12	15 min	38.54	10 min	36.89	20 min	40.73
SC-207.13	15 min	40.73	10 min	38.42	60 min	42.50
SC-207.14	15 min	41.81	10 min	39.28	60 min	44.18
SC-208.01	10 min	1.08	10 min	0.94	20 min	1.15
SC-208.02	10 min	1.51	10 min	1.32	20 min	1.68
SC-208.03	10 min	2.00	10 min	1.75	20 min	2.29
SC-208.04	10 min	3.12	10 min	2.84	20 min	3.51
SC-208.05	10 min	3.57	10 min	3.38	20 min	3.89
SC-209.01	10 min	0.66	10 min	0.58	20 min	0.74
SC-21.01	10 min	0.80	10 min	0.70	20 min	0.88
SC-210.01	10 min	1.49	10 min	1.29	20 min	1.66
SC-210.02	10 min	2.04	10 min	1.76	20 min	2.34
SC-211.01	20 min	0.56	20 min	0.54	20 min	0.68
SC-211.02	25 min	1.25	20 min	1.17	60 min	1.34
SC-211.03	20 min	1.92	20 min	1.89	20 min	2.25
SC-211.04	20 min	2.29	20 min	2.26	20 min	2.62
SC-212.01	1 hour	0.21	45 min	0.21	45 min	0.20
SC-212.02	20 min	0.43	20 min	0.41	20 min	0.52
SC-213.01	10 min	0.62	10 min	0.54	20 min	0.67
SC-213.02	10 min	1.02	10 min	0.89	20 min	1.17
SC-214.01	10 min	0.76	10 min	0.66	20 min	0.84
SC-214.02	10 min	1.64	10 min	1.43	20 min	1.80
SC-215.01	10 min	0.60	10 min	0.52	20 min	0.69
SC-215.02	10 min	1.08	10 min	0.96	20 min	1.27
SC-216.01	10 min	0.58	10 min	0.50	20 min	0.61
SC-216.02	10 min	1.73	10 min	1.51	20 min	1.89
SC-216.03	10 min	2.69	10 min	2.35	20 min	3.06
SC-216.04	10 min	3.73	10 min	3.52	20 min	3.86
SC-217.01	10 min	0.41	10 min	0.36	20 min	0.43
SC-218.01	10 min	0.31	10 min	0.27	20 min	0.33
SC-219.01	10 min	0.41	10 min	0.36	20 min	0.44
SC-22.01	10 min	0.45	10 min	0.39	20 min	0.49
SC-220.01	10 min	0.63	10 min	0.55	20 min	0.69
SC-221.01	10 min	0.58	10 min	0.50	20 min	0.64

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	10 min	1.23	10 min	1.10	20 min	1.44
SC-221.03	10 min	1.51	10 min	1.35	20 min	1.77
SC-221.04	10 min	2.21	10 min	1.95	20 min	2.60
SC-221.05	10 min	2.86	10 min	2.56	20 min	3.34
SC-221.06	10 min	2.99	10 min	2.73	20 min	3.48
SC-222.01	10 min	0.63	10 min	0.55	20 min	0.70
SC-222.02	10 min	0.98	10 min	0.87	20 min	1.14
SC-222.03	10 min	2.17	10 min	2.12	20 min	2.78
SC-223.01	10 min	0.27	10 min	0.23	20 min	0.30
SC-224.01	15 min	0.71	10 min	0.69	20 min	0.94
SC-225.01	10 min	0.50	10 min	0.43	20 min	0.55
SC-226.01	10 min	0.37	10 min	0.32	20 min	0.40
SC-226.02	10 min	0.85	10 min	0.75	20 min	0.98
SC-226.03	10 min	1.75	10 min	1.59	20 min	2.07
SC-226.04	10 min	2.63	10 min	2.34	20 min	3.09
SC-226.05	10 min	10.48	10 min	9.36	20 min	12.34
SC-226.06	10 min	11.44	10 min	10.65	20 min	13.11
SC-226.07	10 min	12.46	10 min	11.82	20 min	13.54
SC-226.08	10 min	13.12	10 min	12.37	20 min	13.85
SC-227.01	10 min	0.19	10 min	0.17	20 min	0.21
SC-228.01	10 min	0.41	10 min	0.36	20 min	0.45
SC-229.01	10 min	0.29	10 min	0.25	20 min	0.32
SC-23.01	10 min	0.59	10 min	0.51	20 min	0.64
SC-23.02	10 min	1.71	10 min	1.54	20 min	2.00
SC-23.03	10 min	2.09	10 min	1.91	20 min	2.48
SC-230.01	10 min	0.28	10 min	0.24	20 min	0.32
SC-231.01	10 min	0.31	10 min	0.27	20 min	0.35
SC-232.01	10 min	0.77	10 min	0.68	20 min	0.88
SC-232.02	10 min	1.22	10 min	1.07	20 min	1.42
SC-232.03	10 min	2.85	10 min	2.52	20 min	3.33
SC-233.01	10 min	0.56	10 min	0.48	20 min	0.62
SC-233.02	10 min	0.90	10 min	0.80	20 min	1.05
SC-234.01	10 min	0.80	10 min	0.70	20 min	0.89
SC-234.02	10 min	1.53	10 min	1.36	20 min	1.78
SC-234.03	10 min	4.50	10 min	4.03	20 min	5.42
SC-235.01	10 min	0.30	10 min	0.26	20 min	0.32
SC-236.01	10 min	0.38	10 min	0.33	20 min	0.41
SC-236.02	10 min	0.58	10 min	0.50	20 min	0.65
SC-237.01	10 min	0.51	10 min	0.44	20 min	0.57
SC-237.02	10 min	1.04	10 min	1.02	20 min	1.40
SC-238.01	10 min	0.33	10 min	0.29	20 min	0.36
SC-238.02	10 min	0.75	10 min	0.66	20 min	0.87
SC-239.01	10 min	0.42	10 min	0.37	20 min	0.47
SC-24.01	10 min	0.51	10 min	0.45	20 min	0.57

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	20 min	1.10	20 min	1.05	20 min	1.30
SC-240.02	20 min	1.56	20 min	1.48	20 min	1.96
SC-241.01	15 min	4.53	10 min	4.70	20 min	6.10
SC-242.01	10 min	0.59	10 min	0.52	20 min	0.66
SC-242.02	10 min	1.50	10 min	1.31	20 min	1.75
SC-242.03	10 min	2.22	10 min	1.96	20 min	2.61
SC-242.04	10 min	2.36	10 min	2.07	20 min	2.78
SC-242.05	10 min	5.23	10 min	4.76	20 min	6.09
SC-242.06	10 min	6.67	10 min	6.46	20 min	7.99
SC-242.07	10 min	7.14	10 min	7.00	20 min	8.63
SC-242.08	10 min	14.04	10 min	13.97	20 min	16.41
SC-243.01	10 min	0.56	10 min	0.49	20 min	0.61
SC-243.02	10 min	2.04	10 min	1.76	20 min	2.31
SC-244.01	10 min	0.79	10 min	0.69	20 min	0.86
SC-245.01	10 min	0.42	10 min	0.36	20 min	0.46
SC-246.01	10 min	0.28	10 min	0.24	20 min	0.31
SC-246.02	10 min	0.72	10 min	0.70	20 min	0.91
SC-247.01	10 min	0.75	10 min	0.67	20 min	0.86
SC-247.02	10 min	1.89	10 min	1.85	20 min	2.36
SC-248.01	10 min	0.94	10 min	0.92	20 min	1.15
SC-249.01	20 min	0.22	20 min	0.21	20 min	0.25
SC-249.02	20 min	0.63	10 min	0.60	20 min	0.85
SC-249.03	10 min	1.29	10 min	1.26	20 min	1.72
SC-249.04	10 min	3.25	10 min	3.05	20 min	4.05
SC-249.05	10 min	9.49	10 min	9.14	20 min	11.86
SC-249.06	10 min	16.08	10 min	15.99	20 min	19.35
SC-25.01	10 min	1.56	10 min	1.36	20 min	1.71
SC-25.02	10 min	2.19	10 min	1.91	20 min	2.50
SC-25.03	10 min	2.38	10 min	2.07	20 min	2.77
SC-25.04	10 min	4.00	10 min	3.52	20 min	4.75
SC-250.01	10 min	0.18	10 min	0.15	20 min	0.20
SC-251.01	10 min	0.43	10 min	0.37	20 min	0.49
SC-252.01	10 min	0.49	10 min	0.44	20 min	0.60
SC-252.02	10 min	0.92	10 min	0.80	20 min	1.08
SC-253.01	10 min	0.74	10 min	0.64	20 min	0.82
SC-253.02	10 min	2.64	10 min	2.30	20 min	3.05
SC-253.03	10 min	3.23	10 min	2.78	20 min	3.75
SC-254.01	10 min	0.74	10 min	0.64	20 min	0.84
SC-255.01	10 min	0.69	10 min	0.61	20 min	0.84
SC-256.01	10 min	0.61	10 min	0.53	20 min	0.70
SC-257.01	10 min	0.35	10 min	0.30	20 min	0.39
SC-258.01	10 min	1.58	10 min	1.39	20 min	1.80
SC-258.02	10 min	2.63	10 min	2.58	20 min	3.29
SC-259.01	10 min	0.68	10 min	0.60	20 min	0.75

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	10 min	1.40	10 min	1.23	20 min	1.64
SC-259.03	10 min	1.99	10 min	1.73	20 min	2.33
SC-259.04	10 min	3.62	10 min	3.14	20 min	4.19
SC-259.05	10 min	4.41	10 min	3.88	20 min	5.18
SC-259.06	10 min	5.69	10 min	5.01	20 min	6.63
SC-259.07	10 min	7.17	10 min	7.17	20 min	6.82
SC-259.08	10 min	8.57	10 min	8.57	10 min	8.12
SC-259.09	10 min	22.34	10 min	22.34	60 min	22.89
SC-259.10	10 min	22.72	10 min	22.72	60 min	23.37
SC-26.01	10 min	0.48	10 min	0.42	20 min	0.53
SC-260.01	10 min	0.45	10 min	0.39	20 min	0.50
SC-261.01	10 min	0.58	10 min	0.51	20 min	0.64
SC-262.01	10 min	0.66	10 min	0.57	20 min	0.73
SC-262.02	10 min	1.19	10 min	1.03	20 min	1.35
SC-263.01	10 min	0.70	10 min	0.60	20 min	0.78
SC-264.01	10 min	0.39	10 min	0.34	20 min	0.42
SC-265.01	10 min	0.50	10 min	0.44	20 min	0.57
SC-265.02	20 min	1.20	10 min	1.19	20 min	1.67
SC-265.03	15 min	2.08	10 min	2.04	20 min	2.62
SC-265.04	10 min	10.21	10 min	9.89	20 min	11.88
SC-266.01	10 min	0.64	10 min	0.58	20 min	0.81
SC-266.02	10 min	1.22	10 min	1.12	20 min	1.54
SC-266.03	10 min	1.47	10 min	1.30	20 min	1.81
SC-266.04	10 min	5.60	10 min	5.25	20 min	7.18
SC-266.05	10 min	6.48	10 min	6.10	20 min	7.54
SC-267.01	10 min	0.62	10 min	0.54	20 min	0.69
SC-268.01	10 min	1.04	10 min	0.90	20 min	1.18
SC-268.02	10 min	2.70	10 min	2.42	20 min	3.32
SC-269.01	20 min	0.43	10 min	0.43	20 min	0.60
SC-27.01	10 min	0.49	10 min	0.46	20 min	0.61
SC-270.01	20 min	0.47	10 min	0.49	20 min	0.67
SC-271.01	15 min	0.29	10 min	0.31	20 min	0.41
SC-272.01	20 min	0.71	10 min	0.69	20 min	0.98
SC-272.02	20 min	1.45	10 min	1.53	20 min	2.05
SC-272.03	10 min	2.58	10 min	2.53	20 min	3.33
SC-273.01	10 min	0.73	10 min	0.72	20 min	0.90
SC-274.01	20 min	0.36	20 min	0.33	20 min	0.45
SC-274.02	10 min	1.44	10 min	1.33	20 min	1.80
SC-274.03	10 min	3.48	10 min	3.10	20 min	4.13
SC-274.04	10 min	4.49	10 min	3.98	20 min	5.32
SC-274.05	10 min	5.81	10 min	5.36	20 min	7.18
SC-275.01	10 min	0.68	10 min	0.59	20 min	0.75
SC-276.01	10 min	0.50	10 min	0.43	20 min	0.54
SC-277.01	10 min	0.62	10 min	0.55	20 min	0.71

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	10 min	0.38	10 min	0.33	20 min	0.42
SC-278.02	10 min	5.04	10 min	4.96	20 min	6.22
SC-279.01	10 min	0.66	10 min	0.65	20 min	0.84
SC-279.02	10 min	4.81	10 min	4.71	20 min	5.96
SC-28.01	20 min	0.41	20 min	0.40	20 min	0.53
SC-28.02	20 min	0.92	10 min	0.92	20 min	1.28
SC-28.03	20 min	1.29	10 min	1.31	20 min	1.79
SC-28.04	10 min	2.82	10 min	2.73	20 min	3.66
SC-280.01	10 min	0.62	10 min	0.57	20 min	0.76
SC-29.01	10 min	0.48	10 min	0.42	20 min	0.52
SC-29.02	10 min	1.29	10 min	1.14	20 min	1.51
SC-3.01	10 min	0.55	10 min	0.54	20 min	0.73
SC-3.02	15 min	1.73	10 min	1.78	20 min	2.43
SC-30.01	10 min	0.85	10 min	0.74	20 min	0.93
SC-30.02	10 min	1.52	10 min	1.35	20 min	1.76
SC-30.03	10 min	2.10	10 min	1.87	20 min	2.44
SC-30.04	10 min	2.66	10 min	2.35	20 min	3.14
SC-31.01	10 min	0.56	10 min	0.53	20 min	0.68
SC-31.02	10 min	1.15	10 min	1.12	20 min	1.46
SC-32.01	15 min	0.48	10 min	0.52	20 min	0.67
SC-32.02	15 min	0.71	20 min	0.68	20 min	0.91
SC-33.01	10 min	0.71	10 min	0.62	20 min	0.79
SC-33.02	10 min	1.61	10 min	1.42	20 min	1.89
SC-34.01	10 min	0.55	10 min	0.50	20 min	0.64
SC-34.02	10 min	1.11	10 min	1.04	20 min	1.34
SC-34.03	10 min	1.32	10 min	1.19	20 min	1.58
SC-35.01	10 min	0.52	10 min	0.45	20 min	0.55
SC-35.02	10 min	1.39	10 min	1.22	20 min	1.55
SC-35.03	10 min	2.22	10 min	1.94	20 min	2.47
SC-35.04	10 min	2.37	10 min	2.08	20 min	2.64
SC-36.01	10 min	1.08	10 min	0.94	20 min	1.21
SC-36.02	10 min	1.95	10 min	1.70	20 min	2.17
SC-37.01	10 min	0.42	10 min	0.36	20 min	0.46
SC-37.02	10 min	1.15	10 min	1.02	20 min	1.33
SC-38.01	10 min	0.48	10 min	0.42	20 min	0.54
SC-39.01	10 min	0.28	10 min	0.25	20 min	0.31
SC-4.01	20 min	0.61	10 min	0.61	20 min	0.85
SC-40.01	10 min	0.66	10 min	0.58	20 min	0.71
SC-41.01	10 min	0.44	10 min	0.38	20 min	0.46
SC-42.01	10 min	1.48	10 min	1.28	20 min	1.59
SC-43.01	10 min	0.32	10 min	0.28	20 min	0.34
SC-44.01	10 min	1.01	10 min	0.88	20 min	1.12
SC-44.02	10 min	1.58	10 min	1.40	20 min	1.83
SC-44.03	10 min	2.17	10 min	1.93	20 min	2.55

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	10 min	3.35	10 min	2.96	20 min	3.95
SC-44.05	10 min	5.80	10 min	5.25	20 min	6.66
SC-44.06	10 min	6.13	10 min	5.70	20 min	7.03
SC-44.07	10 min	6.82	10 min	6.79	20 min	7.70
SC-44.08	10 min	8.82	10 min	8.74	20 min	9.87
SC-44.09	10 min	9.12	10 min	9.08	20 min	10.31
SC-44.10	12 hours	2.42	120 min	0.76	120 min	0.76
SC-44.11	45 min	12.48	45 min	11.33	45 min	14.64
SC-44.12	12 hours	5.67	120 min	0.70	120 min	0.70
SC-44.13	12 hours	5.75	120 min	0.67	120 min	0.68
SC-44.14	12 hours	6.49	45 min	1.44	45 min	1.47
SC-44.15	12 hours	4.64	60 min	2.58	60 min	2.65
SC-44.16	12 hours	4.66	60 min	2.62	60 min	2.70
SC-44.17	15 min	8.32	10 min	8.33	20 min	9.82
SC-44.18	15 min	8.86	20 min	8.51	20 min	10.03
SC-44.19	15 min	10.10	20 min	9.76	60 min	10.84
SC-44.20	25 min	9.34	20 min	9.25	60 min	10.04
SC-45.01	10 min	0.74	10 min	0.66	20 min	0.87
SC-46.01	10 min	0.61	10 min	0.53	20 min	0.68
SC-46.02	10 min	1.03	10 min	0.92	20 min	1.21
SC-46.03	10 min	1.55	10 min	1.38	20 min	1.80
SC-46.04	10 min	1.74	10 min	1.54	20 min	2.05
SC-47.01	10 min	0.99	10 min	0.86	20 min	1.10
SC-48.01	10 min	0.75	10 min	0.65	20 min	0.83
SC-48.02	10 min	1.17	10 min	1.04	20 min	1.35
SC-49.01	10 min	0.84	10 min	0.73	20 min	0.93
SC-5.01	10 min	0.53	10 min	0.47	20 min	0.61
SC-50.01	10 min	0.28	10 min	0.27	20 min	0.35
SC-51.01	10 min	0.29	10 min	0.25	20 min	0.33
SC-52.01	10 min	0.29	10 min	0.26	20 min	0.33
SC-53.01	10 min	0.72	10 min	0.63	20 min	0.80
SC-53.02	10 min	1.45	10 min	1.32	20 min	1.72
SC-53.03	10 min	1.76	10 min	1.56	20 min	2.08
SC-54.01	10 min	0.59	10 min	0.51	20 min	0.65
SC-54.02	10 min	1.10	10 min	1.01	20 min	1.31
SC-55.01	10 min	0.91	10 min	0.80	20 min	1.01
SC-56.01	10 min	0.42	10 min	0.38	20 min	0.50
SC-57.01	10 min	0.31	10 min	0.30	20 min	0.38
SC-58.01	10 min	0.59	10 min	0.51	20 min	0.66
SC-59.01	10 min	0.79	10 min	0.69	20 min	0.91
SC-59.02	10 min	1.49	10 min	1.36	20 min	1.79
SC-59.03	10 min	2.18	10 min	1.97	20 min	2.58
SC-59.04	10 min	2.82	10 min	2.50	20 min	3.33
SC-59.05	10 min	5.96	10 min	5.60	20 min	7.18

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	10 min	6.84	10 min	6.62	20 min	8.23
SC-59.07	10 min	11.45	10 min	11.24	20 min	14.37
SC-59.08	15 min	11.49	10 min	11.08	20 min	14.03
SC-59.09	15 min	14.04	20 min	13.35	60 min	15.50
SC-59.10	25 min	12.35	20 min	11.26	45 min	13.89
SC-6.01	10 min	0.69	10 min	0.60	20 min	0.74
SC-60.01	10 min	0.53	10 min	0.52	20 min	0.69
SC-60.02	10 min	2.10	10 min	2.06	20 min	2.71
SC-61.01	10 min	1.10	10 min	1.07	20 min	1.38
SC-62.01	10 min	0.70	10 min	0.61	20 min	0.78
SC-63.01	10 min	0.40	10 min	0.39	20 min	0.50
SC-64.01	10 min	0.53	10 min	0.46	20 min	0.58
SC-64.02	10 min	1.76	10 min	1.61	20 min	2.13
SC-64.03	10 min	3.31	10 min	2.99	20 min	3.98
SC-64.04	10 min	4.60	10 min	4.32	20 min	5.73
SC-65.01	10 min	0.41	10 min	0.35	20 min	0.46
SC-66.01	10 min	0.32	10 min	0.31	20 min	0.40
SC-66.02	15 min	0.72	10 min	0.77	20 min	1.03
SC-67.01	10 min	0.59	10 min	0.52	20 min	0.65
SC-68.01	10 min	0.81	10 min	0.71	20 min	0.89
SC-68.02	10 min	1.52	10 min	1.37	20 min	1.77
SC-68.03	10 min	2.77	10 min	2.40	20 min	3.18
SC-69.01	10 min	0.70	10 min	0.61	20 min	0.75
SC-7.01	10 min	0.90	10 min	0.80	20 min	1.08
SC-70.01	10 min	0.64	10 min	0.56	20 min	0.71
SC-70.02	10 min	1.02	10 min	0.90	20 min	1.18
SC-71.01	10 min	0.81	10 min	0.70	20 min	0.89
SC-71.02	10 min	1.53	10 min	1.38	20 min	1.80
SC-72.01	10 min	0.87	10 min	0.76	20 min	0.96
SC-73.01	10 min	0.70	10 min	0.61	20 min	0.79
SC-74.01	10 min	0.81	10 min	0.71	20 min	0.90
SC-75.01	10 min	0.47	10 min	0.46	20 min	0.59
SC-75.02	10 min	1.91	10 min	1.87	20 min	2.45
SC-75.03	10 min	2.72	10 min	2.67	20 min	3.46
SC-75.04	10 min	4.69	10 min	4.52	20 min	5.88
SC-76.01	10 min	0.65	10 min	0.64	20 min	0.83
SC-77.01	10 min	0.96	10 min	0.83	20 min	1.06
SC-77.02	10 min	1.45	10 min	1.26	20 min	1.60
SC-77.03	10 min	2.01	10 min	1.76	20 min	2.30
SC-78.01	10 min	0.90	10 min	0.79	20 min	1.00
SC-79.01	10 min	0.96	10 min	0.84	20 min	1.11
SC-79.02	10 min	1.78	10 min	1.55	20 min	2.04
SC-79.03	10 min	3.90	10 min	3.44	20 min	4.55
SC-8.01	10 min	0.76	10 min	0.68	20 min	0.90

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	10 min	1.82	10 min	1.69	20 min	2.24
SC-8.03	10 min	4.76	10 min	4.25	20 min	5.63
SC-8.04	10 min	8.34	10 min	7.40	20 min	9.95
SC-8.05	10 min	9.11	10 min	8.15	20 min	10.58
SC-8.06	10 min	9.46	10 min	8.65	20 min	10.69
SC-80.01	10 min	0.94	10 min	0.82	20 min	1.04
SC-80.02	10 min	1.86	10 min	1.66	20 min	2.17
SC-81.01	10 min	0.70	10 min	0.64	20 min	0.82
SC-81.02	10 min	2.07	10 min	1.86	20 min	2.42
SC-82.01	10 min	0.84	10 min	0.73	20 min	0.93
SC-83.01	10 min	0.53	10 min	0.46	20 min	0.59
SC-84.01	10 min	0.79	10 min	0.68	20 min	0.89
SC-84.02	10 min	1.92	10 min	1.67	20 min	2.24
SC-84.03	10 min	2.54	10 min	2.23	20 min	2.98
SC-84.04	10 min	3.01	10 min	2.63	20 min	3.54
SC-84.05	10 min	3.56	10 min	3.20	20 min	3.95
SC-84.06	10 min	3.93	10 min	3.63	20 min	4.24
SC-85.01	10 min	0.49	10 min	0.43	20 min	0.54
SC-86.01	10 min	0.75	10 min	0.65	20 min	0.83
SC-86.02	10 min	1.44	10 min	1.26	20 min	1.68
SC-87.01	10 min	1.10	10 min	0.95	20 min	1.21
SC-87.02	10 min	1.84	10 min	1.59	20 min	2.10
SC-88.01	10 min	0.49	10 min	0.43	20 min	0.55
SC-88.02	10 min	0.80	10 min	0.70	20 min	0.96
SC-89.01	10 min	0.54	10 min	0.47	20 min	0.60
SC-89.02	10 min	0.59	10 min	0.51	20 min	0.68
SC-9.01	10 min	0.71	10 min	0.62	20 min	0.78
SC-90.01	10 min	0.21	10 min	0.19	20 min	0.25
SC-91.01	10 min	0.64	10 min	0.56	20 min	0.68
SC-91.02	10 min	1.31	10 min	1.14	20 min	1.47
SC-92.01	10 min	0.63	10 min	0.56	20 min	0.73
SC-92.02	10 min	1.75	10 min	1.63	20 min	2.19
SC-93.01	10 min	0.69	10 min	0.60	20 min	0.77
SC-94.01	10 min	0.76	10 min	0.67	20 min	0.82
SC-94.02	10 min	1.75	10 min	1.53	20 min	2.00
SC-95.01	10 min	0.45	10 min	0.39	20 min	0.48
SC-95.02	10 min	1.09	10 min	0.95	20 min	1.19
SC-96.01	10 min	0.50	10 min	0.44	20 min	0.54
SC-97.01	10 min	0.34	10 min	0.30	20 min	0.36
SC-97.02	10 min	1.94	10 min	1.71	20 min	2.27
SC-98.01	10 min	0.59	10 min	0.51	20 min	0.65
SC-99.01	10 min	0.57	10 min	0.50	20 min	0.63
SC-99.02	10 min	1.54	10 min	1.39	20 min	1.80
SC-99.03	10 min	2.64	10 min	2.42	20 min	3.13

Temporal Pattern Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Temporal Pattern Sensitivity Results			
			Low TP		High TP	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	10 min	7.03	10 min	6.29	20 min	8.26
Dummy1	15 min	35.32	10 min	35.08	20 min	38.55
Dummy2	25 min	55.39	20 min	52.58	60 min	57.86
Dummy3	30 min	106.76	20 min	101.56	60 min	120.73
DummyOut	1.50 hour	113.93	60 min	113.62	60 min	137.52

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	10 min	0.93	10 min	0.96	10 min	0.88
SC-1.02	10 min	2.00	10 min	2.05	10 min	1.95
SC-1.03	10 min	2.38	10 min	2.41	10 min	2.34
SC-1.04	10 min	6.27	10 min	6.34	10 min	6.19
SC-1.05	10 min	6.82	10 min	6.89	10 min	6.65
SC-1.06	10 min	7.79	10 min	7.89	10 min	7.71
SC-1.07	10 min	7.91	10 min	8.09	10 min	7.74
SC-1.08	45 min	8.71	45 min	8.85	45 min	8.54
SC-1.09	45 min	9.35	45 min	9.47	45 min	9.21
SC-1.10	45 min	9.36	45 min	9.48	45 min	9.23
SC-1.11	10 min	13.59	10 min	13.80	10 min	13.43
SC-1.12	10 min	16.99	10 min	17.27	10 min	16.78
SC-1.13	10 min	19.43	10 min	19.83	10 min	19.11
SC-1.14	10 min	23.13	10 min	23.63	10 min	22.68
SC-1.15	10 min	25.02	10 min	25.59	10 min	24.51
SC-1.16	15 min	28.64	15 min	29.21	15 min	28.11
SC-1.17	15 min	28.95	15 min	29.54	15 min	28.44
SC-1.18	30 min	18.10	30 min	18.28	30 min	17.92
SC-1.19	1 hour	22.75	1 hour	22.94	1 hour	22.51
SC-1.20	1 hour	20.73	1 hour	20.86	1 hour	20.60
SC-1.21	1 hour	20.74	1 hour	20.87	1 hour	20.62
SC-1.22	1.50 hour	20.92	1.50 hour	21.06	1.50 hour	20.80
SC-1.23	1.50 hour	23.45	1.50 hour	23.72	1.50 hour	23.25
SC-1.24	20 min	31.77	20 min	32.24	20 min	31.26
SC-1.25	25 min	32.54	25 min	33.05	25 min	31.93
SC-1.26	25 min	35.37	25 min	35.98	25 min	34.72
SC-1.27	25 min	35.95	25 min	36.47	25 min	35.34
SC-1.28	15 min	47.23	15 min	48.05	15 min	46.41
SC-1.29	25 min	49.56	25 min	50.33	25 min	48.85
SC-1.30	25 min	50.66	25 min	51.52	25 min	49.68
SC-1.31	25 min	51.58	25 min	52.20	25 min	50.80
SC-1.32	25 min	52.64	25 min	53.19	25 min	52.07
SC-1.33	30 min	54.45	30 min	54.86	30 min	53.92
SC-1.34	30 min	54.52	30 min	54.90	30 min	54.02
SC-1.35	30 min	54.65	30 min	55.21	30 min	54.19
SC-1.36	30 min	57.49	30 min	57.94	30 min	57.16
SC-10.01	10 min	0.97	10 min	0.97	10 min	0.95
SC-100.01	10 min	1.14	10 min	1.15	10 min	1.12
SC-100.02	10 min	1.95	10 min	1.99	10 min	1.92
SC-101.01	10 min	1.18	10 min	1.21	10 min	1.17
SC-101.02	10 min	2.05	10 min	2.07	10 min	2.07
SC-102.01	10 min	0.94	10 min	0.95	10 min	0.92
SC-102.02	10 min	3.50	10 min	3.51	10 min	3.48
SC-103.01	10 min	0.63	10 min	0.63	10 min	0.63

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-103.02	10 min	2.17	10 min	2.19	10 min	2.17
SC-104.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-105.01	10 min	0.60	10 min	0.60	10 min	0.60
SC-105.02	10 min	1.41	10 min	1.42	10 min	1.40
SC-105.03	10 min	3.29	10 min	3.31	10 min	3.27
SC-105.04	10 min	4.44	10 min	4.47	10 min	4.39
SC-105.05	10 min	5.26	10 min	5.38	10 min	5.18
SC-105.06	10 min	5.54	10 min	5.73	10 min	5.42
SC-105.07	15 min	8.11	10 min	8.48	10 min	8.15
SC-105.08	15 min	9.32	15 min	9.58	10 min	9.21
SC-105.09	10 min	12.28	10 min	12.52	10 min	12.10
SC-106.01	10 min	0.44	10 min	0.44	10 min	0.44
SC-107.01	10 min	0.76	10 min	0.76	10 min	0.76
SC-108.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-109.01	10 min	0.73	10 min	0.73	10 min	0.72
SC-11.01	10 min	0.59	10 min	0.60	10 min	0.59
SC-110.01	10 min	0.67	10 min	0.68	10 min	0.65
SC-110.02	10 min	1.50	10 min	1.52	10 min	1.50
SC-110.03	10 min	1.64	10 min	1.64	10 min	1.61
SC-111.01	20 min	0.45	15 min	0.48	20 min	0.43
SC-112.01	10 min	1.13	10 min	1.17	10 min	1.07
SC-113.01	10 min	0.41	10 min	0.41	10 min	0.40
SC-113.02	10 min	1.30	10 min	1.31	10 min	1.28
SC-114.01	10 min	0.71	10 min	0.75	10 min	0.69
SC-114.02	10 min	1.14	10 min	1.15	10 min	1.11
SC-114.03	10 min	2.34	10 min	2.39	10 min	2.32
SC-115.01	10 min	0.65	10 min	0.66	10 min	0.63
SC-115.02	10 min	1.04	10 min	1.06	10 min	1.02
SC-116.01	10 min	0.64	10 min	0.66	10 min	0.62
SC-116.02	10 min	1.03	10 min	1.05	10 min	1.02
SC-117.01	10 min	0.38	10 min	0.38	10 min	0.37
SC-118.01	10 min	0.83	10 min	0.86	10 min	0.79
SC-119.01	10 min	1.26	10 min	1.32	10 min	1.20
SC-119.02	10 min	3.14	10 min	3.20	10 min	3.07
SC-12.01	10 min	0.69	10 min	0.69	10 min	0.68
SC-12.02	10 min	1.20	10 min	1.22	10 min	1.18
SC-12.03	10 min	2.19	10 min	2.22	10 min	2.17
SC-12.04	10 min	2.79	10 min	2.79	10 min	2.75
SC-120.01	10 min	0.57	10 min	0.57	10 min	0.56
SC-121.01	10 min	0.71	10 min	0.72	10 min	0.69
SC-122.01	10 min	1.16	10 min	1.18	10 min	1.11
SC-122.02	10 min	1.79	10 min	1.81	10 min	1.77
SC-122.03	10 min	2.41	10 min	2.43	10 min	2.39
SC-123.01	10 min	0.58	10 min	0.61	10 min	0.55

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-123.02	10 min	1.62	10 min	1.67	10 min	1.62
SC-123.03	10 min	10.91	10 min	11.05	10 min	10.73
SC-123.04	10 min	11.19	10 min	11.33	10 min	11.00
SC-123.05	10 min	14.12	10 min	14.52	10 min	13.88
SC-123.06	10 min	14.54	10 min	14.78	10 min	14.28
SC-123.07	10 min	15.60	10 min	15.93	10 min	15.29
SC-124.01	20 min	0.70	20 min	0.75	20 min	0.66
SC-124.02	20 min	4.51	20 min	4.68	20 min	4.36
SC-125.01	20 min	0.97	20 min	1.01	20 min	0.91
SC-126.01	10 min	0.54	10 min	0.55	10 min	0.52
SC-126.02	20 min	1.30	20 min	1.38	20 min	1.20
SC-126.03	20 min	2.40	20 min	2.46	20 min	2.31
SC-127.01	10 min	1.28	10 min	1.31	10 min	1.23
SC-127.02	10 min	3.43	10 min	3.47	10 min	3.35
SC-128.01	10 min	1.25	10 min	1.30	10 min	1.19
SC-129.01	10 min	0.61	10 min	0.61	10 min	0.60
SC-13.01	10 min	0.63	10 min	0.64	10 min	0.62
SC-130.01	10 min	0.94	10 min	0.95	10 min	0.91
SC-131.01	10 min	0.37	10 min	0.37	10 min	0.37
SC-132.01	10 min	0.52	10 min	0.52	10 min	0.51
SC-133.01	10 min	0.38	10 min	0.39	10 min	0.37
SC-134.01	10 min	0.32	10 min	0.32	10 min	0.30
SC-134.02	10 min	1.02	10 min	1.06	10 min	0.98
SC-134.03	10 min	2.07	10 min	2.18	10 min	1.97
SC-134.04	10 min	2.93	10 min	3.17	20 min	2.57
SC-135.01	10 min	0.25	10 min	0.25	10 min	0.25
SC-135.02	10 min	1.39	10 min	1.43	10 min	1.38
SC-135.03	10 min	1.83	10 min	1.87	10 min	1.83
SC-135.04	10 min	4.06	10 min	4.12	10 min	3.99
SC-135.05	10 min	4.60	10 min	4.69	10 min	4.54
SC-135.06	10 min	7.50	10 min	7.57	10 min	7.42
SC-136.01	10 min	0.76	10 min	0.77	10 min	0.74
SC-137.01	10 min	0.77	10 min	0.81	10 min	0.74
SC-138.01	10 min	0.92	10 min	0.97	10 min	0.92
SC-139.01	10 min	0.90	10 min	0.92	10 min	0.87
SC-139.02	10 min	1.09	10 min	1.12	10 min	1.07
SC-14.01	10 min	1.11	10 min	1.13	10 min	1.08
SC-14.02	10 min	1.69	10 min	1.73	10 min	1.68
SC-14.03	10 min	2.21	10 min	2.24	10 min	2.19
SC-140.01	10 min	0.64	10 min	0.66	10 min	0.61
SC-141.01	10 min	1.04	10 min	1.07	10 min	0.98
SC-142.01	20 min	1.55	15 min	1.58	20 min	1.49
SC-143.01	20 min	0.61	20 min	0.64	20 min	0.57
SC-143.02	10 min	4.94	10 min	5.17	10 min	4.71

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-144.01	10 min	0.73	10 min	0.77	10 min	0.70
SC-144.02	10 min	1.04	10 min	1.08	10 min	1.01
SC-144.03	10 min	1.38	10 min	1.44	10 min	1.34
SC-144.04	10 min	2.44	10 min	2.53	10 min	2.38
SC-144.05	10 min	4.60	10 min	4.75	10 min	4.47
SC-145.01	10 min	0.94	10 min	1.00	10 min	0.93
SC-145.02	10 min	1.74	10 min	1.80	10 min	1.69
SC-146.01	15 min	1.75	15 min	1.88	20 min	1.69
SC-147.01	10 min	0.92	10 min	0.97	10 min	0.84
SC-147.02	10 min	1.25	10 min	1.34	15 min	1.10
SC-147.03	10 min	3.19	10 min	3.29	10 min	3.07
SC-148.01	10 min	0.78	10 min	0.78	10 min	0.77
SC-148.02	10 min	1.67	10 min	1.69	10 min	1.64
SC-149.01	10 min	0.56	10 min	0.59	10 min	0.54
SC-149.02	10 min	1.83	10 min	1.86	10 min	1.76
SC-15.01	10 min	1.13	10 min	1.17	10 min	1.07
SC-15.02	10 min	1.48	10 min	1.51	10 min	1.43
SC-15.03	10 min	2.33	10 min	2.40	10 min	2.27
SC-150.01	10 min	0.68	10 min	0.68	10 min	0.67
SC-150.02	10 min	1.31	10 min	1.34	10 min	1.29
SC-150.03	10 min	3.32	10 min	3.39	10 min	3.29
SC-150.04	10 min	4.30	10 min	4.37	10 min	4.29
SC-150.05	10 min	5.94	10 min	6.07	10 min	5.93
SC-150.06	10 min	11.00	10 min	11.10	10 min	10.92
SC-150.07	10 min	17.06	10 min	17.35	10 min	17.11
SC-150.08	2 hours	9.68	2 hours	9.78	2 hours	9.60
SC-150.09	2 hours	10.19	2 hours	10.29	2 hours	10.13
SC-150.10	2 hours	12.14	2 hours	12.59	2 hours	12.07
SC-150.11	10 min	18.60	10 min	18.84	10 min	18.41
SC-150.12	10 min	29.36	10 min	29.83	10 min	28.94
SC-150.13	15 min	33.27	15 min	33.82	15 min	32.78
SC-150.14	15 min	49.84	15 min	51.74	15 min	48.02
SC-150.15	15 min	50.19	15 min	51.99	15 min	48.46
SC-150.16	15 min	52.64	15 min	54.17	15 min	51.27
SC-150.17	15 min	53.46	15 min	54.75	15 min	52.30
SC-151.01	10 min	0.91	10 min	0.93	10 min	0.88
SC-151.02	10 min	1.38	10 min	1.40	10 min	1.36
SC-152.01	10 min	0.80	10 min	0.84	10 min	0.76
SC-153.01	10 min	0.65	10 min	0.64	10 min	0.64
SC-153.02	10 min	1.52	10 min	1.54	10 min	1.52
SC-154.01	10 min	1.19	10 min	1.24	10 min	1.13
SC-154.02	10 min	3.98	10 min	4.03	10 min	3.98
SC-155.01	10 min	0.43	10 min	0.44	10 min	0.43
SC-155.02	10 min	1.25	10 min	1.27	10 min	1.24

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-156.01	10 min	0.49	10 min	0.51	10 min	0.47
SC-157.01	10 min	0.57	10 min	0.60	10 min	0.58
SC-158.01	10 min	0.77	10 min	0.78	10 min	0.75
SC-158.02	10 min	0.98	10 min	1.00	10 min	0.96
SC-158.03	10 min	2.13	10 min	2.15	10 min	2.09
SC-158.04	10 min	3.96	10 min	4.04	10 min	3.92
SC-159.01	10 min	0.61	10 min	0.62	10 min	0.59
SC-16.01	10 min	0.73	10 min	0.74	10 min	0.72
SC-160.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-160.02	10 min	1.32	10 min	1.35	10 min	1.30
SC-161.01	10 min	0.72	10 min	0.73	10 min	0.71
SC-161.02	10 min	1.36	10 min	1.37	10 min	1.36
SC-162.01	10 min	0.84	10 min	0.89	10 min	0.82
SC-163.01	10 min	0.47	10 min	0.50	10 min	0.45
SC-163.02	10 min	0.90	10 min	0.94	10 min	0.88
SC-163.03	10 min	1.48	10 min	1.50	10 min	1.48
SC-163.04	10 min	2.11	10 min	2.12	10 min	2.09
SC-163.05	10 min	3.65	10 min	3.68	10 min	3.62
SC-164.01	10 min	0.72	10 min	0.77	10 min	0.73
SC-165.01	10 min	0.62	10 min	0.66	10 min	0.62
SC-165.02	10 min	1.60	10 min	1.67	10 min	1.60
SC-165.03	10 min	2.09	10 min	2.13	10 min	2.08
SC-165.04	10 min	4.46	10 min	4.54	10 min	4.45
SC-165.05	10 min	7.50	10 min	7.60	10 min	7.43
SC-166.01	10 min	0.56	10 min	0.59	10 min	0.57
SC-167.01	10 min	0.85	10 min	0.85	10 min	0.84
SC-167.02	10 min	2.15	10 min	2.18	10 min	2.12
SC-168.01	10 min	0.70	10 min	0.72	10 min	0.66
SC-169.01	10 min	0.63	10 min	0.66	10 min	0.63
SC-169.02	10 min	1.16	10 min	1.19	10 min	1.15
SC-169.03	10 min	2.62	10 min	2.65	10 min	2.57
SC-17.01	10 min	0.64	10 min	0.65	10 min	0.63
SC-17.02	10 min	1.10	10 min	1.12	10 min	1.09
SC-17.03	10 min	1.84	10 min	1.88	10 min	1.81
SC-17.04	10 min	4.38	10 min	4.42	10 min	4.33
SC-17.05	10 min	6.01	10 min	6.07	10 min	5.96
SC-17.06	10 min	6.75	10 min	6.84	10 min	6.69
SC-17.07	10 min	7.26	10 min	7.37	10 min	7.18
SC-170.01	10 min	0.57	10 min	0.60	10 min	0.55
SC-171.01	10 min	0.41	10 min	0.42	10 min	0.40
SC-172.01	10 min	0.82	10 min	0.82	10 min	0.82
SC-172.02	10 min	1.38	10 min	1.37	10 min	1.40
SC-173.01	20 min	0.89	20 min	1.04	30 min	0.77
SC-173.02	20 min	1.79	20 min	1.97	20 min	1.66

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-173.03	20 min	1.85	20 min	1.98	20 min	1.72
SC-173.04	10 min	3.07	20 min	3.17	10 min	2.98
SC-173.05	10 min	3.58	10 min	3.66	10 min	3.48
SC-174.01	10 min	0.53	10 min	0.54	10 min	0.51
SC-175.01	10 min	0.92	10 min	0.93	10 min	0.89
SC-175.02	10 min	1.86	10 min	1.90	10 min	1.81
SC-175.03	10 min	2.99	10 min	3.05	10 min	2.93
SC-175.04	10 min	3.67	10 min	3.71	10 min	3.59
SC-175.05	10 min	4.12	10 min	4.18	10 min	4.06
SC-176.01	10 min	0.38	10 min	0.40	10 min	0.37
SC-177.01	10 min	0.51	10 min	0.51	10 min	0.51
SC-177.02	10 min	1.34	10 min	1.35	10 min	1.33
SC-177.03	10 min	3.68	10 min	3.76	10 min	3.63
SC-177.04	10 min	5.02	10 min	5.17	10 min	4.92
SC-178.01	10 min	1.12	10 min	1.16	10 min	1.06
SC-178.02	10 min	1.66	10 min	1.71	10 min	1.63
SC-179.01	10 min	0.91	10 min	0.93	10 min	0.89
SC-18.01	10 min	0.71	10 min	0.71	10 min	0.70
SC-18.02	10 min	1.11	10 min	1.12	10 min	1.11
SC-180.01	10 min	0.88	10 min	0.91	10 min	0.84
SC-180.02	10 min	1.49	10 min	1.54	10 min	1.47
SC-180.03	10 min	2.09	10 min	2.14	10 min	2.06
SC-180.04	10 min	3.02	10 min	3.09	10 min	2.98
SC-181.01	20 min	0.38	20 min	0.39	20 min	0.37
SC-181.02	10 min	1.25	10 min	1.26	10 min	1.24
SC-181.03	10 min	2.04	10 min	2.10	10 min	2.00
SC-181.04	10 min	3.79	10 min	3.88	10 min	3.69
SC-181.05	10 min	4.08	10 min	4.16	10 min	4.01
SC-181.06	10 min	4.55	10 min	4.64	10 min	4.45
SC-181.07	10 min	10.03	10 min	10.21	10 min	9.91
SC-181.08	10 min	10.40	10 min	10.60	10 min	10.28
SC-182.01	10 min	0.62	10 min	0.63	10 min	0.60
SC-182.02	10 min	1.00	10 min	1.01	10 min	0.97
SC-182.03	10 min	1.56	10 min	1.62	10 min	1.54
SC-183.01	10 min	0.59	10 min	0.60	10 min	0.58
SC-183.02	10 min	1.34	10 min	1.38	10 min	1.31
SC-183.03	10 min	3.32	10 min	3.39	10 min	3.26
SC-183.04	10 min	3.79	10 min	3.86	10 min	3.73
SC-184.01	10 min	1.43	10 min	1.48	10 min	1.38
SC-185.01	10 min	0.86	10 min	0.87	10 min	0.83
SC-185.02	10 min	1.89	10 min	1.94	10 min	1.83
SC-186.01	10 min	0.30	10 min	0.30	10 min	0.30
SC-187.01	10 min	0.87	10 min	0.87	10 min	0.85
SC-187.02	10 min	1.67	10 min	1.71	10 min	1.64

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-187.03	10 min	1.97	10 min	1.99	10 min	1.95
SC-187.04	10 min	2.46	10 min	2.50	10 min	2.42
SC-187.05	10 min	2.93	10 min	2.97	10 min	2.89
SC-188.01	10 min	0.91	10 min	0.91	10 min	0.90
SC-188.02	10 min	1.33	10 min	1.36	10 min	1.32
SC-189.01	10 min	1.03	10 min	1.05	10 min	1.01
SC-189.02	10 min	1.83	10 min	1.84	10 min	1.82
SC-19.01	10 min	0.41	10 min	0.42	10 min	0.42
SC-190.01	10 min	0.45	10 min	0.45	10 min	0.45
SC-191.01	10 min	0.83	10 min	0.83	10 min	0.82
SC-191.02	10 min	1.19	10 min	1.21	10 min	1.17
SC-191.03	10 min	2.18	10 min	2.24	10 min	2.15
SC-191.04	10 min	3.18	10 min	3.27	10 min	3.15
SC-191.05	10 min	4.45	10 min	4.46	10 min	4.38
SC-191.06	10 min	7.65	10 min	7.62	10 min	7.51
SC-191.07	10 min	9.11	10 min	9.27	10 min	9.09
SC-191.08	10 min	9.97	15 min	9.90	10 min	9.88
SC-192.01	10 min	2.59	10 min	2.73	10 min	2.57
SC-193.01	10 min	1.18	10 min	1.22	10 min	1.12
SC-194.01	10 min	1.18	10 min	1.24	10 min	1.15
SC-194.02	20 min	4.77	20 min	5.33	20 min	4.29
SC-194.03	20 min	4.95	20 min	5.59	20 min	4.47
SC-195.01	20 min	1.67	20 min	1.85	20 min	1.44
SC-196.01	10 min	3.86	10 min	4.07	10 min	3.70
SC-197.01	10 min	2.47	10 min	2.66	10 min	2.43
SC-198.01	20 min	2.40	15 min	2.56	20 min	2.30
SC-2.01	10 min	0.53	10 min	0.57	10 min	0.52
SC-20.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-200.01	10 min	0.80	10 min	0.85	10 min	0.81
SC-200.02	10 min	1.41	10 min	1.45	10 min	1.39
SC-200.03	10 min	2.63	10 min	2.70	10 min	2.60
SC-200.04	10 min	3.84	10 min	3.94	10 min	3.75
SC-200.05	10 min	6.29	10 min	6.42	10 min	6.17
SC-200.06	10 min	9.51	10 min	10.05	10 min	9.05
SC-200.07	10 min	11.17	10 min	11.80	10 min	10.58
SC-200.08	10 min	12.58	10 min	13.33	15 min	11.99
SC-200.09	15 min	18.58	10 min	20.03	15 min	17.89
SC-201.01	10 min	1.02	10 min	1.05	10 min	0.98
SC-202.01	10 min	1.05	10 min	1.08	10 min	1.00
SC-203.01	10 min	1.04	10 min	1.05	10 min	1.02
SC-204.01	10 min	1.36	10 min	1.41	10 min	1.29
SC-205.01	20 min	0.55	15 min	0.55	20 min	0.53
SC-206.01	10 min	4.38	10 min	4.78	15 min	3.63
SC-207.01	10 min	0.98	10 min	1.04	10 min	0.98

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-207.02	10 min	1.89	10 min	1.96	10 min	1.91
SC-207.03	10 min	2.11	10 min	2.20	10 min	2.08
SC-207.04	10 min	5.77	10 min	5.82	10 min	5.72
SC-207.05	10 min	7.61	10 min	7.72	10 min	7.56
SC-207.06	10 min	8.34	10 min	8.50	10 min	8.23
SC-207.07	10 min	13.97	10 min	14.46	10 min	13.57
SC-207.08	10 min	20.74	10 min	21.32	10 min	20.24
SC-207.09	10 min	23.77	10 min	24.48	10 min	23.11
SC-207.10	15 min	24.60	15 min	25.25	15 min	23.95
SC-207.11	15 min	26.60	15 min	27.30	15 min	25.89
SC-207.12	15 min	38.54	15 min	39.51	15 min	37.54
SC-207.13	15 min	40.73	15 min	41.70	15 min	39.70
SC-207.14	15 min	41.81	15 min	42.78	15 min	40.95
SC-208.01	10 min	1.08	10 min	1.09	10 min	1.05
SC-208.02	10 min	1.51	10 min	1.51	10 min	1.50
SC-208.03	10 min	2.00	10 min	2.02	10 min	1.98
SC-208.04	10 min	3.12	10 min	3.16	10 min	3.12
SC-208.05	10 min	3.57	10 min	3.62	10 min	3.55
SC-209.01	10 min	0.66	10 min	0.66	10 min	0.67
SC-21.01	10 min	0.80	10 min	0.80	10 min	0.79
SC-210.01	10 min	1.49	10 min	1.55	10 min	1.42
SC-210.02	10 min	2.04	10 min	2.09	10 min	1.99
SC-211.01	20 min	0.56	20 min	0.62	20 min	0.50
SC-211.02	25 min	1.25	20 min	1.41	30 min	1.08
SC-211.03	20 min	1.92	20 min	2.20	25 min	1.76
SC-211.04	20 min	2.29	20 min	2.58	20 min	2.07
SC-212.01	1 hour	0.21	45 min	0.24	1 hour	0.18
SC-212.02	20 min	0.43	20 min	0.47	20 min	0.39
SC-213.01	10 min	0.62	10 min	0.61	10 min	0.61
SC-213.02	10 min	1.02	10 min	1.04	10 min	1.00
SC-214.01	10 min	0.76	10 min	0.76	10 min	0.75
SC-214.02	10 min	1.64	10 min	1.64	10 min	1.62
SC-215.01	10 min	0.60	10 min	0.64	10 min	0.58
SC-215.02	10 min	1.08	10 min	1.11	10 min	1.06
SC-216.01	10 min	0.58	10 min	0.58	10 min	0.56
SC-216.02	10 min	1.73	10 min	1.71	10 min	1.73
SC-216.03	10 min	2.69	10 min	2.70	10 min	2.70
SC-216.04	10 min	3.73	10 min	3.82	10 min	3.67
SC-217.01	10 min	0.41	10 min	0.41	10 min	0.40
SC-218.01	10 min	0.31	10 min	0.31	10 min	0.31
SC-219.01	10 min	0.41	10 min	0.41	10 min	0.41
SC-22.01	10 min	0.45	10 min	0.45	10 min	0.44
SC-220.01	10 min	0.63	10 min	0.63	10 min	0.61
SC-221.01	10 min	0.58	10 min	0.58	10 min	0.57

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-221.02	10 min	1.23	10 min	1.24	10 min	1.22
SC-221.03	10 min	1.51	10 min	1.53	10 min	1.50
SC-221.04	10 min	2.21	10 min	2.25	10 min	2.20
SC-221.05	10 min	2.86	10 min	2.86	10 min	2.81
SC-221.06	10 min	2.99	10 min	3.05	10 min	2.97
SC-222.01	10 min	0.63	10 min	0.64	10 min	0.60
SC-222.02	10 min	0.98	10 min	1.01	10 min	0.97
SC-222.03	10 min	2.17	10 min	2.25	10 min	2.08
SC-223.01	10 min	0.27	10 min	0.27	10 min	0.26
SC-224.01	15 min	0.71	10 min	0.83	20 min	0.66
SC-225.01	10 min	0.50	10 min	0.52	10 min	0.47
SC-226.01	10 min	0.37	10 min	0.37	10 min	0.37
SC-226.02	10 min	0.85	10 min	0.86	10 min	0.84
SC-226.03	10 min	1.75	10 min	1.77	10 min	1.75
SC-226.04	10 min	2.63	10 min	2.67	10 min	2.60
SC-226.05	10 min	10.48	10 min	10.64	10 min	10.27
SC-226.06	10 min	11.44	10 min	11.57	10 min	11.35
SC-226.07	10 min	12.46	10 min	12.64	10 min	12.30
SC-226.08	10 min	13.12	10 min	13.29	10 min	12.93
SC-227.01	10 min	0.19	10 min	0.19	10 min	0.19
SC-228.01	10 min	0.41	10 min	0.42	10 min	0.40
SC-229.01	10 min	0.29	10 min	0.29	10 min	0.28
SC-23.01	10 min	0.59	10 min	0.58	10 min	0.58
SC-23.02	10 min	1.71	10 min	1.72	10 min	1.70
SC-23.03	10 min	2.09	10 min	2.12	10 min	2.08
SC-230.01	10 min	0.28	10 min	0.30	10 min	0.27
SC-231.01	10 min	0.31	10 min	0.33	10 min	0.30
SC-232.01	10 min	0.77	10 min	0.81	10 min	0.79
SC-232.02	10 min	1.22	10 min	1.23	10 min	1.22
SC-232.03	10 min	2.85	10 min	2.91	10 min	2.80
SC-233.01	10 min	0.56	10 min	0.56	10 min	0.54
SC-233.02	10 min	0.90	10 min	0.92	10 min	0.89
SC-234.01	10 min	0.80	10 min	0.83	10 min	0.77
SC-234.02	10 min	1.53	10 min	1.54	10 min	1.51
SC-234.03	10 min	4.50	10 min	4.52	10 min	4.44
SC-235.01	10 min	0.30	10 min	0.30	10 min	0.29
SC-236.01	10 min	0.38	10 min	0.39	10 min	0.37
SC-236.02	10 min	0.58	10 min	0.59	10 min	0.56
SC-237.01	10 min	0.51	10 min	0.52	10 min	0.49
SC-237.02	10 min	1.04	10 min	1.12	10 min	1.01
SC-238.01	10 min	0.33	10 min	0.33	10 min	0.33
SC-238.02	10 min	0.75	10 min	0.75	10 min	0.75
SC-239.01	10 min	0.42	10 min	0.43	10 min	0.42
SC-24.01	10 min	0.51	10 min	0.51	10 min	0.51

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-240.01	20 min	1.10	20 min	1.18	20 min	0.97
SC-240.02	20 min	1.56	20 min	1.71	20 min	1.43
SC-241.01	15 min	4.53	10 min	5.45	15 min	4.25
SC-242.01	10 min	0.59	10 min	0.60	10 min	0.59
SC-242.02	10 min	1.50	10 min	1.52	10 min	1.48
SC-242.03	10 min	2.22	10 min	2.27	10 min	2.22
SC-242.04	10 min	2.36	10 min	2.40	10 min	2.35
SC-242.05	10 min	5.23	10 min	5.32	10 min	5.17
SC-242.06	10 min	6.67	10 min	6.75	10 min	6.61
SC-242.07	10 min	7.14	10 min	7.34	10 min	7.00
SC-242.08	10 min	14.04	10 min	14.96	10 min	13.24
SC-243.01	10 min	0.56	10 min	0.58	10 min	0.54
SC-243.02	10 min	2.04	10 min	2.05	10 min	1.99
SC-244.01	10 min	0.79	10 min	0.81	10 min	0.77
SC-245.01	10 min	0.42	10 min	0.42	10 min	0.40
SC-246.01	10 min	0.28	10 min	0.29	10 min	0.27
SC-246.02	10 min	0.72	10 min	0.74	10 min	0.69
SC-247.01	10 min	0.75	10 min	0.74	10 min	0.73
SC-247.02	10 min	1.89	10 min	2.01	15 min	1.61
SC-248.01	10 min	0.94	10 min	1.01	15 min	0.79
SC-249.01	20 min	0.22	20 min	0.23	20 min	0.19
SC-249.02	20 min	0.63	20 min	0.65	20 min	0.61
SC-249.03	10 min	1.29	10 min	1.36	10 min	1.26
SC-249.04	10 min	3.25	10 min	3.25	10 min	3.25
SC-249.05	10 min	9.49	10 min	9.65	10 min	9.40
SC-249.06	10 min	16.08	10 min	17.40	15 min	14.64
SC-25.01	10 min	1.56	10 min	1.57	10 min	1.53
SC-25.02	10 min	2.19	10 min	2.23	10 min	2.16
SC-25.03	10 min	2.38	10 min	2.41	10 min	2.36
SC-25.04	10 min	4.00	10 min	4.12	10 min	3.92
SC-250.01	10 min	0.18	10 min	0.18	10 min	0.18
SC-251.01	10 min	0.43	10 min	0.45	10 min	0.42
SC-252.01	10 min	0.49	10 min	0.51	10 min	0.47
SC-252.02	10 min	0.92	10 min	0.95	10 min	0.90
SC-253.01	10 min	0.74	10 min	0.76	10 min	0.71
SC-253.02	10 min	2.64	10 min	2.68	10 min	2.61
SC-253.03	10 min	3.23	10 min	3.23	10 min	3.18
SC-254.01	10 min	0.74	10 min	0.77	10 min	0.71
SC-255.01	10 min	0.69	10 min	0.72	10 min	0.66
SC-256.01	10 min	0.61	10 min	0.62	10 min	0.60
SC-257.01	10 min	0.35	10 min	0.35	10 min	0.34
SC-258.01	10 min	1.58	10 min	1.58	10 min	1.55
SC-258.02	10 min	2.63	10 min	2.76	10 min	2.46
SC-259.01	10 min	0.68	10 min	0.68	10 min	0.66

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-259.02	10 min	1.40	10 min	1.42	10 min	1.41
SC-259.03	10 min	1.99	10 min	2.02	10 min	1.96
SC-259.04	10 min	3.62	10 min	3.64	10 min	3.61
SC-259.05	10 min	4.41	10 min	4.51	10 min	4.35
SC-259.06	10 min	5.69	10 min	5.82	10 min	5.58
SC-259.07	10 min	7.17	10 min	7.23	10 min	7.13
SC-259.08	10 min	8.57	10 min	8.73	10 min	8.37
SC-259.09	10 min	22.34	10 min	23.15	10 min	21.47
SC-259.10	10 min	22.72	10 min	23.48	10 min	21.88
SC-26.01	10 min	0.48	10 min	0.48	10 min	0.47
SC-260.01	10 min	0.45	10 min	0.46	10 min	0.44
SC-261.01	10 min	0.58	10 min	0.58	10 min	0.58
SC-262.01	10 min	0.66	10 min	0.68	10 min	0.64
SC-262.02	10 min	1.19	10 min	1.19	10 min	1.17
SC-263.01	10 min	0.70	10 min	0.72	10 min	0.67
SC-264.01	10 min	0.39	10 min	0.39	10 min	0.38
SC-265.01	10 min	0.50	10 min	0.52	10 min	0.48
SC-265.02	20 min	1.20	15 min	1.27	20 min	1.18
SC-265.03	15 min	2.08	15 min	2.26	20 min	2.02
SC-265.04	10 min	10.21	10 min	10.65	15 min	9.55
SC-266.01	10 min	0.64	10 min	0.66	10 min	0.62
SC-266.02	10 min	1.22	10 min	1.22	10 min	1.21
SC-266.03	10 min	1.47	10 min	1.49	10 min	1.47
SC-266.04	10 min	5.60	10 min	5.67	10 min	5.54
SC-266.05	10 min	6.48	10 min	6.70	10 min	6.35
SC-267.01	10 min	0.62	10 min	0.62	10 min	0.61
SC-268.01	10 min	1.04	10 min	1.08	10 min	0.99
SC-268.02	10 min	2.70	10 min	2.68	10 min	2.61
SC-269.01	20 min	0.43	15 min	0.44	20 min	0.43
SC-27.01	10 min	0.49	10 min	0.50	10 min	0.49
SC-270.01	20 min	0.47	10 min	0.56	20 min	0.46
SC-271.01	15 min	0.29	10 min	0.35	20 min	0.28
SC-272.01	20 min	0.71	15 min	0.72	20 min	0.69
SC-272.02	20 min	1.45	10 min	1.66	20 min	1.40
SC-272.03	10 min	2.58	10 min	2.72	10 min	2.44
SC-273.01	10 min	0.73	10 min	0.75	10 min	0.70
SC-274.01	20 min	0.36	20 min	0.42	20 min	0.32
SC-274.02	10 min	1.44	10 min	1.48	10 min	1.42
SC-274.03	10 min	3.48	10 min	3.58	10 min	3.40
SC-274.04	10 min	4.49	10 min	4.58	10 min	4.40
SC-274.05	10 min	5.81	10 min	6.02	10 min	5.63
SC-275.01	10 min	0.68	10 min	0.70	10 min	0.65
SC-276.01	10 min	0.50	10 min	0.50	10 min	0.49
SC-277.01	10 min	0.62	10 min	0.63	10 min	0.62

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-278.01	10 min	0.38	10 min	0.39	10 min	0.37
SC-278.02	10 min	5.04	10 min	5.37	15 min	4.19
SC-279.01	10 min	0.66	10 min	0.70	10 min	0.62
SC-279.02	10 min	4.81	10 min	4.98	10 min	4.52
SC-28.01	20 min	0.41	15 min	0.44	20 min	0.40
SC-28.02	20 min	0.92	20 min	0.93	20 min	0.90
SC-28.03	20 min	1.29	15 min	1.32	20 min	1.27
SC-28.04	10 min	2.82	10 min	2.91	10 min	2.81
SC-280.01	10 min	0.62	10 min	0.62	10 min	0.61
SC-29.01	10 min	0.48	10 min	0.47	10 min	0.47
SC-29.02	10 min	1.29	10 min	1.31	10 min	1.29
SC-3.01	10 min	0.55	10 min	0.60	10 min	0.53
SC-3.02	15 min	1.73	10 min	1.97	20 min	1.70
SC-30.01	10 min	0.85	10 min	0.85	10 min	0.84
SC-30.02	10 min	1.52	10 min	1.51	10 min	1.49
SC-30.03	10 min	2.10	10 min	2.13	10 min	2.06
SC-30.04	10 min	2.66	10 min	2.73	10 min	2.63
SC-31.01	10 min	0.56	10 min	0.56	10 min	0.56
SC-31.02	10 min	1.15	10 min	1.18	10 min	1.14
SC-32.01	15 min	0.48	10 min	0.59	15 min	0.45
SC-32.02	15 min	0.71	15 min	0.78	20 min	0.67
SC-33.01	10 min	0.71	10 min	0.71	10 min	0.70
SC-33.02	10 min	1.61	10 min	1.65	10 min	1.59
SC-34.01	10 min	0.55	10 min	0.55	10 min	0.55
SC-34.02	10 min	1.11	10 min	1.09	10 min	1.11
SC-34.03	10 min	1.32	10 min	1.35	10 min	1.30
SC-35.01	10 min	0.52	10 min	0.52	10 min	0.51
SC-35.02	10 min	1.39	10 min	1.38	10 min	1.41
SC-35.03	10 min	2.22	10 min	2.25	10 min	2.26
SC-35.04	10 min	2.37	10 min	2.39	10 min	2.42
SC-36.01	10 min	1.08	10 min	1.10	10 min	1.05
SC-36.02	10 min	1.95	10 min	1.97	10 min	1.91
SC-37.01	10 min	0.42	10 min	0.42	10 min	0.41
SC-37.02	10 min	1.15	10 min	1.17	10 min	1.15
SC-38.01	10 min	0.48	10 min	0.48	10 min	0.48
SC-39.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-4.01	20 min	0.61	10 min	0.71	20 min	0.59
SC-40.01	10 min	0.66	10 min	0.69	10 min	0.63
SC-41.01	10 min	0.44	10 min	0.44	10 min	0.43
SC-42.01	10 min	1.48	10 min	1.52	10 min	1.41
SC-43.01	10 min	0.32	10 min	0.33	10 min	0.32
SC-44.01	10 min	1.01	10 min	1.03	10 min	0.99
SC-44.02	10 min	1.58	10 min	1.63	10 min	1.57
SC-44.03	10 min	2.17	10 min	2.22	10 min	2.14

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-44.04	10 min	3.35	10 min	3.40	10 min	3.26
SC-44.05	10 min	5.80	10 min	5.95	10 min	5.70
SC-44.06	10 min	6.13	10 min	6.26	10 min	6.06
SC-44.07	10 min	6.82	10 min	7.01	10 min	6.68
SC-44.08	10 min	8.82	10 min	9.04	10 min	8.63
SC-44.09	10 min	9.12	10 min	9.37	15 min	8.93
SC-44.10	12 hours	2.42	12 hours	2.42	12 hours	2.40
SC-44.11	45 min	12.48	45 min	12.53	45 min	12.43
SC-44.12	12 hours	5.67	12 hours	5.70	12 hours	5.64
SC-44.13	12 hours	5.75	12 hours	5.78	12 hours	5.72
SC-44.14	12 hours	6.49	12 hours	6.52	12 hours	6.47
SC-44.15	12 hours	4.64	12 hours	4.58	12 hours	4.53
SC-44.16	12 hours	4.66	12 hours	4.60	12 hours	4.55
SC-44.17	15 min	8.32	15 min	8.49	15 min	8.18
SC-44.18	15 min	8.86	15 min	9.10	15 min	8.68
SC-44.19	15 min	10.10	15 min	10.37	25 min	9.80
SC-44.20	25 min	9.34	25 min	9.49	25 min	9.20
SC-45.01	10 min	0.74	10 min	0.76	10 min	0.72
SC-46.01	10 min	0.61	10 min	0.61	10 min	0.60
SC-46.02	10 min	1.03	10 min	1.03	10 min	1.01
SC-46.03	10 min	1.55	10 min	1.57	10 min	1.52
SC-46.04	10 min	1.74	10 min	1.78	10 min	1.72
SC-47.01	10 min	0.99	10 min	1.02	10 min	0.95
SC-48.01	10 min	0.75	10 min	0.76	10 min	0.73
SC-48.02	10 min	1.17	10 min	1.19	10 min	1.15
SC-49.01	10 min	0.84	10 min	0.84	10 min	0.84
SC-5.01	10 min	0.53	10 min	0.52	10 min	0.51
SC-50.01	10 min	0.28	10 min	0.28	10 min	0.28
SC-51.01	10 min	0.29	10 min	0.29	10 min	0.29
SC-52.01	10 min	0.29	10 min	0.29	10 min	0.30
SC-53.01	10 min	0.72	10 min	0.73	10 min	0.71
SC-53.02	10 min	1.45	10 min	1.47	10 min	1.45
SC-53.03	10 min	1.76	10 min	1.78	10 min	1.74
SC-54.01	10 min	0.59	10 min	0.59	10 min	0.58
SC-54.02	10 min	1.10	10 min	1.12	10 min	1.10
SC-55.01	10 min	0.91	10 min	0.91	10 min	0.90
SC-56.01	10 min	0.42	10 min	0.41	10 min	0.42
SC-57.01	10 min	0.31	10 min	0.31	10 min	0.30
SC-58.01	10 min	0.59	10 min	0.61	10 min	0.56
SC-59.01	10 min	0.79	10 min	0.81	10 min	0.76
SC-59.02	10 min	1.49	10 min	1.50	10 min	1.48
SC-59.03	10 min	2.18	10 min	2.21	10 min	2.16
SC-59.04	10 min	2.82	10 min	2.85	10 min	2.77
SC-59.05	10 min	5.96	10 min	6.07	10 min	5.88

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-59.06	10 min	6.84	10 min	7.00	10 min	6.72
SC-59.07	10 min	11.45	10 min	11.93	10 min	11.18
SC-59.08	15 min	11.49	15 min	11.95	15 min	11.09
SC-59.09	15 min	14.04	15 min	14.52	15 min	13.62
SC-59.10	25 min	12.35	25 min	12.64	25 min	12.08
SC-6.01	10 min	0.69	10 min	0.69	10 min	0.67
SC-60.01	10 min	0.53	10 min	0.57	15 min	0.48
SC-60.02	10 min	2.10	10 min	2.22	10 min	2.05
SC-61.01	10 min	1.10	10 min	1.14	10 min	1.09
SC-62.01	10 min	0.70	10 min	0.70	10 min	0.70
SC-63.01	10 min	0.40	10 min	0.42	10 min	0.38
SC-64.01	10 min	0.53	10 min	0.55	10 min	0.50
SC-64.02	10 min	1.76	10 min	1.77	10 min	1.75
SC-64.03	10 min	3.31	10 min	3.33	10 min	3.28
SC-64.04	10 min	4.60	10 min	4.69	10 min	4.53
SC-65.01	10 min	0.41	10 min	0.42	10 min	0.39
SC-66.01	10 min	0.32	10 min	0.32	10 min	0.32
SC-66.02	15 min	0.72	10 min	0.86	20 min	0.69
SC-67.01	10 min	0.59	10 min	0.59	10 min	0.59
SC-68.01	10 min	0.81	10 min	0.81	10 min	0.80
SC-68.02	10 min	1.52	10 min	1.54	10 min	1.51
SC-68.03	10 min	2.77	10 min	2.78	10 min	2.73
SC-69.01	10 min	0.70	10 min	0.70	10 min	0.70
SC-7.01	10 min	0.90	10 min	0.93	10 min	0.88
SC-70.01	10 min	0.64	10 min	0.64	10 min	0.64
SC-70.02	10 min	1.02	10 min	1.02	10 min	1.01
SC-71.01	10 min	0.81	10 min	0.81	10 min	0.79
SC-71.02	10 min	1.53	10 min	1.54	10 min	1.51
SC-72.01	10 min	0.87	10 min	0.88	10 min	0.86
SC-73.01	10 min	0.70	10 min	0.71	10 min	0.68
SC-74.01	10 min	0.81	10 min	0.82	10 min	0.79
SC-75.01	10 min	0.47	10 min	0.49	10 min	0.46
SC-75.02	10 min	1.91	10 min	2.01	10 min	1.81
SC-75.03	10 min	2.72	10 min	2.86	10 min	2.68
SC-75.04	10 min	4.69	10 min	4.80	10 min	4.70
SC-76.01	10 min	0.65	10 min	0.70	15 min	0.55
SC-77.01	10 min	0.96	10 min	0.97	10 min	0.94
SC-77.02	10 min	1.45	10 min	1.45	10 min	1.43
SC-77.03	10 min	2.01	10 min	2.05	10 min	1.99
SC-78.01	10 min	0.90	10 min	0.91	10 min	0.89
SC-79.01	10 min	0.96	10 min	0.99	10 min	0.97
SC-79.02	10 min	1.78	10 min	1.80	10 min	1.79
SC-79.03	10 min	3.90	10 min	3.98	10 min	3.87
SC-8.01	10 min	0.76	10 min	0.78	10 min	0.74

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-8.02	10 min	1.82	10 min	1.84	10 min	1.83
SC-8.03	10 min	4.76	10 min	4.86	10 min	4.70
SC-8.04	10 min	8.34	10 min	8.59	10 min	8.16
SC-8.05	10 min	9.11	10 min	9.25	10 min	8.94
SC-8.06	10 min	9.46	10 min	9.59	10 min	9.34
SC-80.01	10 min	0.94	10 min	0.94	10 min	0.93
SC-80.02	10 min	1.86	10 min	1.87	10 min	1.83
SC-81.01	10 min	0.70	10 min	0.70	10 min	0.69
SC-81.02	10 min	2.07	10 min	2.06	10 min	2.02
SC-82.01	10 min	0.84	10 min	0.84	10 min	0.82
SC-83.01	10 min	0.53	10 min	0.53	10 min	0.52
SC-84.01	10 min	0.79	10 min	0.79	10 min	0.77
SC-84.02	10 min	1.92	10 min	1.96	10 min	1.90
SC-84.03	10 min	2.54	10 min	2.58	10 min	2.50
SC-84.04	10 min	3.01	10 min	3.07	10 min	2.97
SC-84.05	10 min	3.56	10 min	3.64	10 min	3.52
SC-84.06	10 min	3.93	10 min	3.99	10 min	3.88
SC-85.01	10 min	0.49	10 min	0.49	10 min	0.49
SC-86.01	10 min	0.75	10 min	0.76	10 min	0.72
SC-86.02	10 min	1.44	10 min	1.46	10 min	1.42
SC-87.01	10 min	1.10	10 min	1.11	10 min	1.07
SC-87.02	10 min	1.84	10 min	1.86	10 min	1.82
SC-88.01	10 min	0.49	10 min	0.50	10 min	0.48
SC-88.02	10 min	0.80	10 min	0.81	10 min	0.78
SC-89.01	10 min	0.54	10 min	0.56	10 min	0.51
SC-89.02	10 min	0.59	10 min	0.61	10 min	0.56
SC-9.01	10 min	0.71	10 min	0.71	10 min	0.69
SC-90.01	10 min	0.21	10 min	0.22	10 min	0.21
SC-91.01	10 min	0.64	10 min	0.65	10 min	0.63
SC-91.02	10 min	1.31	10 min	1.34	10 min	1.29
SC-92.01	10 min	0.63	10 min	0.64	10 min	0.62
SC-92.02	10 min	1.75	10 min	1.77	10 min	1.75
SC-93.01	10 min	0.69	10 min	0.69	10 min	0.67
SC-94.01	10 min	0.76	10 min	0.76	10 min	0.75
SC-94.02	10 min	1.75	10 min	1.79	10 min	1.73
SC-95.01	10 min	0.45	10 min	0.45	10 min	0.45
SC-95.02	10 min	1.09	10 min	1.09	10 min	1.08
SC-96.01	10 min	0.50	10 min	0.50	10 min	0.50
SC-97.01	10 min	0.34	10 min	0.35	10 min	0.33
SC-97.02	10 min	1.94	10 min	1.99	10 min	1.90
SC-98.01	10 min	0.59	10 min	0.60	10 min	0.57
SC-99.01	10 min	0.57	10 min	0.57	10 min	0.57
SC-99.02	10 min	1.54	10 min	1.55	10 min	1.53
SC-99.03	10 min	2.64	10 min	2.65	10 min	2.62

Catchment Storage Sensitivity Results for 1% AEP Flood

Subcatch ID	Base ARR2019 Results		Catchment Storage Sensitivity Results			
			Bx Reduced by 20%		Bx Increased by 20%	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-99.04	10 min	7.03	10 min	7.25	10 min	6.90
Dummy1	15 min	35.32	10 min	36.41	15 min	34.03
Dummy2	25 min	55.39	25 min	56.35	25 min	54.35
Dummy3	30 min	106.76	30 min	108.57	30 min	105.71
DummyOut	1.50 hour	113.93	1.50 hour	114.69	1.50 hour	113.00

PMP Spatial Distribution

Subcatch ID	Base PMP Results		Modified PMP Spatial Distribution	
	Critical Duration (mins)	Adopted Discharge (m ³ /s)	Critical Duration (mins)	Adopted Discharge (m ³ /s)
SC-1.01	15 min	3.43	15 min	3.37
SC-1.02	15 min	7.68	15 min	7.54
SC-1.03	15 min	9.07	15 min	8.84
SC-1.04	15 min	25.67	15 min	24.11
SC-1.05	15 min	28.11	15 min	26.33
SC-1.06	15 min	33.26	15 min	30.92
SC-1.07	15 min	34.12	15 min	31.71
SC-1.08	30 min	52.56	30 min	47.33
SC-1.09	45 min	58.08	30 min	51.73
SC-1.10	45 min	59.18	45 min	52.47
SC-1.11	45 min	79.43	30 min	70.54
SC-1.12	45 min	87.39	30 min	77.86
SC-1.13	45 min	94.2	30 min	84.24
SC-1.14	15 min	109.25	15 min	96.46
SC-1.15	15 min	119.44	15 min	105.57
SC-1.16	15 min	133.98	15 min	119.45
SC-1.17	15 min	135.93	15 min	121.25
SC-1.18	1.50 hour	111.8	45 min	98.89
SC-1.19	1.50 hour	197	1 hour	147.20
SC-1.20	1.50 hour	199.3	1 hour	147.00
SC-1.21	1.50 hour	201.12	1 hour	147.08
SC-1.22	1.50 hour	203.88	1 hour	147.41
SC-1.23	2 hours	212.56	1 hour	152.62
SC-1.24	2 hours	231.4	1 hour	168.90
SC-1.25	2 hours	232.97	1 hour	169.85
SC-1.26	2 hours	238.04	1 hour	173.75
SC-1.27	2 hours	239.39	1 hour	174.80
SC-1.28	2.50 hours	263.65	15 min	219.96
SC-1.29	2.50 hours	271.94	30 min	230.82
SC-1.30	2.50 hours	274.32	30 min	236.49
SC-1.31	2.50 hours	275.98	30 min	239.93
SC-1.32	2.50 hours	278.74	30 min	245.14
SC-1.33	2.50 hours	285.41	30 min	255.13
SC-1.34	2.50 hours	287.13	30 min	256.40
SC-1.35	2.50 hours	288.85	30 min	257.49
SC-1.36	2.50 hours	298.86	45 min	276.45
SC-10.01	15 min	3.84	15 min	3.37
SC-100.01	15 min	3.83	15 min	4.02
SC-100.02	15 min	6.87	15 min	7.25
SC-101.01	15 min	4.35	15 min	4.61
SC-101.02	15 min	7.91	15 min	8.36
SC-102.01	15 min	3.23	15 min	3.39

SC-102.02	15 min	13.49	15 min	14.08
SC-103.01	15 min	2.19	15 min	2.28
SC-103.02	15 min	8.2	15 min	8.57
SC-104.01	15 min	2.01	15 min	2.09
SC-105.01	15 min	2.45	15 min	2.14
SC-105.02	15 min	6.12	15 min	5.52
SC-105.03	15 min	14.25	15 min	12.87
SC-105.04	15 min	19.38	15 min	17.46
SC-105.05	15 min	24.12	15 min	21.74
SC-105.06	15 min	27.27	15 min	24.51
SC-105.07	15 min	41.52	15 min	37.57
SC-105.08	15 min	48.14	15 min	43.98
SC-105.09	15 min	62.17	15 min	58.78
SC-106.01	15 min	1.75	15 min	1.60
SC-107.01	15 min	3.13	15 min	2.87
SC-108.01	15 min	2.15	15 min	1.95
SC-109.01	15 min	2.87	15 min	2.67
SC-11.01	15 min	2.41	15 min	2.10
SC-110.01	15 min	2.63	15 min	2.44
SC-110.02	15 min	6.46	15 min	5.99
SC-110.03	15 min	7.15	15 min	6.60
SC-111.01	15 min	2.56	15 min	2.29
SC-112.01	15 min	4.47	15 min	4.11
SC-113.01	15 min	1.65	15 min	1.54
SC-113.02	15 min	5.72	15 min	5.35
SC-114.01	15 min	3.03	15 min	2.82
SC-114.02	15 min	4.62	15 min	4.47
SC-114.03	15 min	9.58	15 min	9.21
SC-115.01	15 min	2.55	15 min	2.36
SC-115.02	15 min	4.21	15 min	4.01
SC-116.01	15 min	2.53	15 min	2.34
SC-116.02	15 min	4.26	15 min	3.97
SC-117.01	15 min	1.5	15 min	1.40
SC-118.01	15 min	2.77	15 min	2.92
SC-119.01	15 min	4.45	15 min	4.62
SC-119.02	15 min	11.44	15 min	11.62
SC-12.01	15 min	2.43	15 min	2.42
SC-12.02	15 min	4.14	15 min	4.11
SC-12.03	15 min	8.3	15 min	7.83
SC-12.04	15 min	10.91	15 min	9.95
SC-120.01	15 min	2.05	15 min	2.07
SC-121.01	15 min	2.51	15 min	2.61
SC-122.01	15 min	3.81	15 min	4.02
SC-122.02	15 min	6.45	15 min	6.72
SC-122.03	15 min	8.77	15 min	9.43
SC-123.01	15 min	2.01	15 min	2.11
SC-123.02	15 min	6.06	15 min	6.24
SC-123.03	15 min	44.93	15 min	46.65
SC-123.04	15 min	45.78	15 min	47.56
SC-123.05	15 min	57.79	15 min	60.29

SC-123.06	15 min	59.87	15 min	62.61
SC-123.07	15 min	65.01	15 min	68.25
SC-124.01	15 min	3.25	15 min	3.39
SC-124.02	15 min	20.26	15 min	20.85
SC-125.01	15 min	4.51	15 min	4.77
SC-126.01	15 min	1.85	15 min	1.95
SC-126.02	15 min	5.83	15 min	6.04
SC-126.03	15 min	10.16	15 min	10.27
SC-127.01	15 min	4.24	15 min	4.46
SC-127.02	15 min	11.89	15 min	12.56
SC-128.01	15 min	4.27	15 min	4.46
SC-129.01	15 min	2.37	15 min	2.52
SC-13.01	15 min	2.5	15 min	2.20
SC-130.01	15 min	3.2	15 min	3.36
SC-131.01	15 min	1.25	15 min	1.32
SC-132.01	15 min	1.83	15 min	1.93
SC-133.01	15 min	1.29	15 min	1.35
SC-134.01	15 min	1.12	15 min	1.18
SC-134.02	15 min	4.25	15 min	4.50
SC-134.03	15 min	8.47	15 min	9.01
SC-134.04	15 min	11.98	15 min	12.53
SC-135.01	15 min	1.02	15 min	0.94
SC-135.02	15 min	5.85	15 min	5.38
SC-135.03	15 min	7.82	15 min	7.12
SC-135.04	15 min	17.28	15 min	16.08
SC-135.05	15 min	19.64	15 min	18.71
SC-135.06	15 min	31.47	15 min	31.51
SC-136.01	15 min	2.84	15 min	2.75
SC-137.01	15 min	3.08	15 min	2.82
SC-138.01	15 min	3.36	15 min	3.49
SC-139.01	15 min	3.22	15 min	3.38
SC-139.02	15 min	4.02	15 min	4.18
SC-14.01	15 min	4.31	15 min	3.77
SC-14.02	15 min	7.02	15 min	6.11
SC-14.03	15 min	9.27	15 min	8.01
SC-140.01	15 min	2.29	15 min	2.33
SC-141.01	15 min	4.25	15 min	4.44
SC-142.01	15 min	7.37	15 min	7.67
SC-143.01	15 min	2.54	15 min	2.66
SC-143.02	15 min	20.25	15 min	21.56
SC-144.01	15 min	2.68	15 min	2.80
SC-144.02	15 min	4.05	15 min	4.24
SC-144.03	15 min	5.75	15 min	6.00
SC-144.04	15 min	10.14	15 min	10.81
SC-144.05	15 min	17.83	15 min	19.73
SC-145.01	15 min	3.36	15 min	3.50
SC-145.02	15 min	6.28	15 min	6.64
SC-146.01	15 min	8.76	15 min	8.98
SC-147.01	15 min	3.87	15 min	3.97
SC-147.02	15 min	5.4	15 min	5.57

SC-147.03	15 min	13.4	15 min	13.74
SC-148.01	15 min	2.8	15 min	2.95
SC-148.02	15 min	6.88	15 min	7.09
SC-149.01	15 min	2.16	15 min	2.24
SC-149.02	15 min	7.55	15 min	7.79
SC-15.01	15 min	4.47	15 min	3.87
SC-15.02	15 min	5.96	15 min	5.18
SC-15.03	15 min	9.66	15 min	8.40
SC-150.01	15 min	2.34	15 min	2.32
SC-150.02	15 min	4.77	15 min	4.72
SC-150.03	15 min	12.29	15 min	12.10
SC-150.04	15 min	16.2	15 min	15.98
SC-150.05	15 min	22.96	15 min	22.58
SC-150.06	15 min	43.35	15 min	42.71
SC-150.07	15 min	70.17	15 min	67.87
SC-150.08	30 min	79.47	30 min	72.83
SC-150.09	30 min	85.16	30 min	77.94
SC-150.10	30 min	102.59	30 min	94.66
SC-150.11	30 min	133.14	30 min	122.93
SC-150.12	30 min	163.37	30 min	151.60
SC-150.13	30 min	178.6	30 min	164.11
SC-150.14	30 min	238.08	30 min	225.71
SC-150.15	30 min	240.74	30 min	228.15
SC-150.16	45 min	250.39	30 min	235.06
SC-150.17	45 min	255.94	45 min	241.10
SC-151.01	15 min	3.1	15 min	3.06
SC-151.02	15 min	4.98	15 min	4.91
SC-152.01	15 min	2.83	15 min	2.77
SC-153.01	15 min	2.37	15 min	2.30
SC-153.02	15 min	5.63	15 min	5.57
SC-154.01	15 min	4.31	15 min	4.23
SC-154.02	15 min	15.19	15 min	15.05
SC-155.01	15 min	1.75	15 min	1.75
SC-155.02	15 min	4.84	15 min	4.77
SC-156.01	15 min	1.75	15 min	1.71
SC-157.01	15 min	2.11	15 min	2.06
SC-158.01	15 min	2.99	15 min	2.63
SC-158.02	15 min	4.04	15 min	3.50
SC-158.03	15 min	8.91	15 min	7.82
SC-158.04	15 min	15.72	15 min	14.48
SC-159.01	15 min	2.39	15 min	2.09
SC-16.01	15 min	2.87	15 min	2.52
SC-160.01	15 min	2.06	15 min	2.04
SC-160.02	15 min	4.89	15 min	4.82
SC-161.01	15 min	2.47	15 min	2.45
SC-161.02	15 min	4.92	15 min	4.83
SC-162.01	15 min	3.35	15 min	2.96
SC-163.01	15 min	2.23	15 min	1.98
SC-163.02	15 min	4.15	15 min	3.64
SC-163.03	15 min	6.7	15 min	5.87

SC-163.04	15 min	9.13	15 min	7.92
SC-163.05	15 min	15.62	15 min	13.50
SC-164.01	15 min	3	15 min	2.61
SC-165.01	15 min	2.55	15 min	2.22
SC-165.02	15 min	6.63	15 min	5.71
SC-165.03	15 min	8.73	15 min	7.52
SC-165.04	15 min	19.79	15 min	17.15
SC-165.05	15 min	33.26	15 min	28.43
SC-166.01	15 min	2.34	15 min	2.03
SC-167.01	15 min	3.35	15 min	2.94
SC-167.02	15 min	8.89	15 min	7.74
SC-168.01	15 min	2.74	15 min	2.38
SC-169.01	15 min	2.59	15 min	2.25
SC-169.02	15 min	4.85	15 min	4.23
SC-169.03	15 min	10.79	15 min	9.31
SC-17.01	15 min	2.5	15 min	2.19
SC-17.02	15 min	4.56	15 min	3.97
SC-17.03	15 min	7.71	15 min	6.81
SC-17.04	15 min	19.01	15 min	16.58
SC-17.05	15 min	26.75	15 min	23.30
SC-17.06	15 min	30.99	15 min	26.88
SC-17.07	15 min	33.69	15 min	29.22
SC-170.01	15 min	2.3	15 min	1.99
SC-171.01	15 min	1.36	15 min	1.35
SC-172.01	15 min	3.13	15 min	2.73
SC-172.02	15 min	5.61	15 min	4.81
SC-173.01	30 min	4.34	30 min	4.27
SC-173.02	15 min	7.91	15 min	7.63
SC-173.03	30 min	8.23	30 min	7.97
SC-173.04	15 min	12.22	15 min	11.61
SC-173.05	15 min	14.36	15 min	13.62
SC-174.01	15 min	2	15 min	1.74
SC-175.01	15 min	3.58	15 min	3.14
SC-175.02	15 min	7.57	15 min	6.67
SC-175.03	15 min	12.27	15 min	10.63
SC-175.04	15 min	15.56	15 min	13.53
SC-175.05	15 min	18.17	15 min	15.71
SC-176.01	15 min	1.85	15 min	1.58
SC-177.01	15 min	2.02	15 min	1.75
SC-177.02	15 min	5.74	15 min	4.92
SC-177.03	15 min	15.77	15 min	13.56
SC-177.04	15 min	20.93	15 min	18.51
SC-178.01	15 min	4.43	15 min	3.84
SC-178.02	15 min	7.02	15 min	6.07
SC-179.01	15 min	3.19	15 min	3.12
SC-18.01	15 min	2.86	15 min	2.49
SC-18.02	15 min	4.79	15 min	4.17
SC-180.01	15 min	3.08	15 min	3.03
SC-180.02	15 min	5.54	15 min	5.42
SC-180.03	15 min	7.85	15 min	7.71

SC-180.04	15 min	11.12	15 min	10.99
SC-181.01	15 min	1.68	15 min	1.66
SC-181.02	15 min	4.79	15 min	4.71
SC-181.03	15 min	7.72	15 min	7.55
SC-181.04	15 min	14.99	15 min	14.72
SC-181.05	15 min	16.77	15 min	16.52
SC-181.06	15 min	18.52	15 min	18.23
SC-181.07	15 min	41.09	15 min	40.64
SC-181.08	15 min	42.63	15 min	42.08
SC-182.01	15 min	2.19	15 min	2.16
SC-182.02	15 min	3.73	15 min	3.66
SC-182.03	15 min	6.63	15 min	6.48
SC-183.01	15 min	2.38	15 min	2.34
SC-183.02	15 min	5.08	15 min	4.93
SC-183.03	15 min	12.64	15 min	12.77
SC-183.04	15 min	14.94	15 min	14.86
SC-184.01	15 min	5.14	15 min	5.07
SC-185.01	15 min	2.95	15 min	2.92
SC-185.02	15 min	6.86	15 min	6.81
SC-186.01	15 min	1.1	15 min	1.07
SC-187.01	15 min	3.38	15 min	3.06
SC-187.02	15 min	6.91	15 min	6.14
SC-187.03	15 min	8.2	15 min	7.33
SC-187.04	15 min	10.53	15 min	9.59
SC-187.05	15 min	12.18	15 min	11.32
SC-188.01	15 min	3.15	15 min	3.13
SC-188.02	15 min	4.89	15 min	4.84
SC-189.01	15 min	3.55	15 min	3.52
SC-189.02	15 min	6.5	15 min	6.43
SC-19.01	15 min	1.9	15 min	1.67
SC-190.01	15 min	1.59	15 min	1.57
SC-191.01	15 min	3.23	15 min	2.96
SC-191.02	15 min	4.89	15 min	4.47
SC-191.03	15 min	8.98	15 min	8.46
SC-191.04	15 min	12.98	15 min	12.28
SC-191.05	15 min	18.07	15 min	17.24
SC-191.06	15 min	31.71	15 min	31.07
SC-191.07	15 min	39.11	15 min	38.22
SC-191.08	15 min	44.06	15 min	42.38
SC-192.01	15 min	9.42	15 min	9.77
SC-193.01	15 min	4.3	15 min	4.49
SC-194.01	15 min	4.96	15 min	4.88
SC-194.02	15 min	22.91	15 min	22.74
SC-194.03	15 min	24.79	15 min	24.12
SC-195.01	15 min	8.14	15 min	7.95
SC-196.01	15 min	14.64	15 min	14.87
SC-197.01	15 min	10.67	15 min	10.72
SC-198.01	15 min	11.86	15 min	11.61
SC-2.01	15 min	2.28	15 min	2.26
SC-20.01	15 min	2.24	15 min	1.94

SC-200.01	15 min	2.95	15 min	3.06
SC-200.02	15 min	5.11	15 min	5.37
SC-200.03	15 min	9.84	15 min	10.23
SC-200.04	15 min	15.13	15 min	15.73
SC-200.05	15 min	24.16	15 min	25.53
SC-200.06	15 min	41.03	15 min	42.94
SC-200.07	15 min	49.25	15 min	51.25
SC-200.08	15 min	57.3	15 min	59.59
SC-200.09	15 min	83.94	15 min	87.99
SC-201.01	15 min	3.51	15 min	3.66
SC-202.01	15 min	3.52	15 min	3.69
SC-203.01	15 min	3.72	15 min	3.94
SC-204.01	15 min	5.52	15 min	5.84
SC-205.01	15 min	2.6	15 min	2.71
SC-206.01	15 min	19.09	15 min	20.05
SC-207.01	15 min	3.55	15 min	3.68
SC-207.02	15 min	7.13	15 min	7.46
SC-207.03	15 min	8.15	15 min	8.60
SC-207.04	15 min	23.38	15 min	24.77
SC-207.05	15 min	31.7	15 min	33.95
SC-207.06	15 min	34.34	15 min	36.80
SC-207.07	15 min	58.68	15 min	62.21
SC-207.08	15 min	88.51	15 min	95.89
SC-207.09	15 min	102.23	15 min	111.57
SC-207.10	15 min	105.91	15 min	115.96
SC-207.11	15 min	114	15 min	125.73
SC-207.12	15 min	162.68	15 min	181.13
SC-207.13	15 min	172.84	15 min	193.77
SC-207.14	15 min	177.74	15 min	200.89
SC-208.01	15 min	3.56	15 min	3.74
SC-208.02	15 min	5.3	15 min	5.50
SC-208.03	15 min	7.17	15 min	7.48
SC-208.04	15 min	11.77	15 min	12.46
SC-208.05	15 min	14.03	15 min	14.82
SC-209.01	15 min	2.44	15 min	2.51
SC-210.01	15 min	3.12	15 min	2.74
SC-210.02	15 min	5.19	15 min	5.40
SC-210.03	15 min	7.45	15 min	7.81
SC-211.01	15 min	2.68	15 min	2.81
SC-211.02	15 min	6.19	15 min	6.44
SC-211.03	15 min	9.54	15 min	9.67
SC-211.04	15 min	11.02	30 min	11.22
SC-212.01	45 min	1.27	45 min	1.33
SC-212.02	30 min	2.03	45 min	2.09
SC-213.01	15 min	2.1	15 min	2.19
SC-213.02	15 min	3.62	15 min	3.86
SC-214.01	15 min	2.64	15 min	2.78
SC-214.02	15 min	5.65	15 min	5.94
SC-215.01	15 min	2.16	15 min	2.24
SC-215.02	15 min	3.99	15 min	4.23

SC-216.01	15 min	1.88	15 min	2.09
SC-216.02	15 min	5.96	15 min	6.40
SC-216.03	15 min	9.7	15 min	10.34
SC-216.04	15 min	14.69	15 min	15.43
SC-217.01	15 min	1.35	15 min	1.49
SC-218.01	15 min	1.03	15 min	1.12
SC-219.01	15 min	1.37	15 min	1.44
SC-22.01	15 min	1.77	15 min	1.55
SC-220.01	15 min	2.16	15 min	2.40
SC-221.01	15 min	2.01	15 min	2.24
SC-221.02	15 min	4.59	15 min	5.10
SC-221.03	15 min	5.71	15 min	6.29
SC-221.04	15 min	8.25	15 min	9.11
SC-221.05	15 min	10.81	15 min	12.04
SC-221.06	15 min	11.65	15 min	12.97
SC-222.01	15 min	2.18	15 min	2.42
SC-222.02	15 min	3.62	15 min	4.01
SC-222.03	15 min	8.99	15 min	9.91
SC-223.01	15 min	0.94	15 min	1.04
SC-224.01	15 min	3.52	15 min	3.85
SC-225.01	15 min	1.74	15 min	1.92
SC-226.01	15 min	1.25	15 min	1.39
SC-226.02	15 min	3.16	15 min	3.46
SC-226.03	15 min	6.65	15 min	7.27
SC-226.04	15 min	9.99	15 min	10.78
SC-226.05	15 min	40.32	15 min	44.21
SC-226.06	15 min	45.43	15 min	49.54
SC-226.07	15 min	50.11	15 min	54.90
SC-226.08	15 min	52.7	15 min	57.53
SC-227.01	15 min	0.67	15 min	0.74
SC-228.01	15 min	1.42	15 min	1.58
SC-229.01	15 min	1	15 min	1.11
SC-23.01	15 min	2.3	15 min	2.00
SC-23.02	15 min	7.29	15 min	6.35
SC-23.03	15 min	9.11	15 min	7.95
SC-230.01	15 min	1	15 min	1.10
SC-231.01	15 min	1.11	15 min	1.22
SC-232.01	15 min	2.86	15 min	3.12
SC-232.02	15 min	4.59	15 min	4.96
SC-232.03	15 min	10.67	15 min	11.69
SC-233.01	15 min	1.93	15 min	2.15
SC-233.02	15 min	3.34	15 min	3.70
SC-234.01	15 min	2.74	15 min	3.22
SC-234.02	15 min	5.61	15 min	6.49
SC-234.03	15 min	17.04	15 min	19.25
SC-235.01	15 min	0.97	15 min	1.17
SC-236.01	15 min	1.22	15 min	1.52
SC-236.02	15 min	1.91	15 min	2.37
SC-237.01	15 min	1.77	15 min	1.97
SC-237.02	15 min	4.49	15 min	4.92

SC-238.01	15 min	1.13	15 min	1.25
SC-238.02	15 min	2.76	15 min	3.06
SC-239.01	15 min	1.49	15 min	1.65
SC-24.01	15 min	2.01	15 min	1.76
SC-240.01	15 min	5.01	15 min	5.79
SC-240.02	15 min	7.03	15 min	8.24
SC-241.01	15 min	22.38	15 min	24.07
SC-242.01	15 min	2.05	15 min	2.57
SC-242.02	15 min	5.21	15 min	6.70
SC-242.03	15 min	7.85	15 min	9.86
SC-242.04	15 min	8.42	15 min	10.63
SC-242.05	15 min	19.06	15 min	24.20
SC-242.06	15 min	25.54	15 min	33.05
SC-242.07	15 min	28.12	15 min	36.29
SC-242.08	15 min	56.7	15 min	70.48
SC-243.01	15 min	1.8	15 min	2.30
SC-243.02	15 min	6.92	15 min	8.87
SC-244.01	15 min	2.53	15 min	3.25
SC-245.01	15 min	1.34	15 min	1.73
SC-246.01	15 min	0.93	15 min	1.18
SC-246.02	15 min	2.83	15 min	3.56
SC-247.01	15 min	2.63	15 min	3.41
SC-247.02	15 min	7.49	15 min	9.45
SC-248.01	15 min	3.8	15 min	4.44
SC-249.01	15 min	0.98	15 min	1.26
SC-249.02	15 min	2.61	15 min	3.37
SC-249.03	15 min	5.15	15 min	6.65
SC-249.04	15 min	12.29	15 min	15.64
SC-249.05	15 min	36.78	15 min	46.69
SC-249.06	15 min	68.83	15 min	87.64
SC-25.01	15 min	6.05	15 min	5.30
SC-25.02	15 min	9.06	15 min	7.88
SC-25.03	15 min	10.01	15 min	8.71
SC-25.04	15 min	16.99	15 min	14.61
SC-250.01	15 min	0.62	15 min	0.77
SC-251.01	15 min	1.46	15 min	1.85
SC-252.01	15 min	1.73	15 min	2.24
SC-252.02	15 min	3.15	15 min	4.08
SC-253.01	15 min	2.41	15 min	3.09
SC-253.02	15 min	9.06	15 min	11.63
SC-253.03	15 min	11.14	15 min	14.32
SC-254.01	15 min	2.48	15 min	3.17
SC-255.01	15 min	2.47	15 min	3.21
SC-256.01	15 min	2.09	15 min	2.73
SC-257.01	15 min	1.18	15 min	1.52
SC-258.01	15 min	5.48	15 min	7.07
SC-258.02	15 min	10.2	15 min	13.28
SC-259.01	15 min	2.37	15 min	2.99
SC-259.02	15 min	4.93	15 min	6.28
SC-259.03	15 min	7.04	15 min	8.97

SC-259.04	15 min	12.73	15 min	16.10
SC-259.05	15 min	15.69	15 min	19.94
SC-259.06	15 min	20.33	15 min	25.81
SC-259.07	15 min	27.07	15 min	34.01
SC-259.08	15 min	31.12	15 min	39.54
SC-259.09	15 min	89.39	15 min	107.12
SC-259.10	15 min	91.28	15 min	109.65
SC-26.01	15 min	1.91	15 min	1.67
SC-260.01	15 min	1.48	15 min	1.90
SC-261.01	15 min	2	15 min	2.51
SC-262.01	15 min	2.15	15 min	2.77
SC-262.02	15 min	4.03	15 min	5.14
SC-263.01	15 min	2.3	15 min	2.96
SC-264.01	15 min	1.25	15 min	1.61
SC-265.01	15 min	1.68	15 min	1.98
SC-265.02	15 min	5.18	15 min	5.98
SC-265.03	15 min	9.45	15 min	11.13
SC-265.04	15 min	42.58	15 min	50.05
SC-266.01	15 min	2.39	15 min	2.83
SC-266.02	15 min	4.54	15 min	5.33
SC-266.03	15 min	5.33	15 min	6.26
SC-266.04	15 min	21.92	15 min	25.69
SC-266.05	15 min	26.05	15 min	30.80
SC-267.01	15 min	2.04	15 min	2.42
SC-268.01	15 min	3.47	15 min	4.08
SC-268.02	15 min	9.8	15 min	11.57
SC-269.01	15 min	1.85	15 min	2.21
SC-27.01	15 min	2.23	15 min	1.96
SC-270.01	15 min	2.14	15 min	2.55
SC-271.01	15 min	1.31	15 min	1.56
SC-272.01	15 min	3.13	15 min	3.67
SC-272.02	15 min	6.23	15 min	7.25
SC-272.03	15 min	10.11	15 min	11.72
SC-273.01	15 min	2.81	15 min	3.32
SC-274.01	30 min	1.63	15 min	2.08
SC-274.02	15 min	5.21	15 min	6.77
SC-274.03	15 min	12.26	15 min	15.76
SC-274.04	15 min	15.97	15 min	20.47
SC-274.05	15 min	21.3	15 min	27.13
SC-275.01	15 min	2.23	15 min	2.85
SC-276.01	15 min	1.6	15 min	2.06
SC-277.01	15 min	2.16	15 min	2.79
SC-278.01	15 min	1.24	15 min	1.60
SC-278.02	15 min	20.1	15 min	25.65
SC-279.01	15 min	2.61	15 min	3.40
SC-279.02	15 min	18.79	15 min	23.89
SC-28.01	15 min	2.35	15 min	2.01
SC-28.02	15 min	4.81	15 min	4.08
SC-28.03	15 min	6.57	15 min	5.52
SC-28.04	15 min	12.87	15 min	10.92

SC-280.01	15 min	2.29	15 min	2.98
SC-29.01	15 min	1.87	15 min	1.64
SC-29.02	15 min	5.43	15 min	4.71
SC-3.01	15 min	2.39	15 min	2.38
SC-3.02	15 min	8.02	15 min	7.70
SC-30.01	15 min	3.3	15 min	2.91
SC-30.02	15 min	6.39	15 min	5.58
SC-30.03	15 min	8.9	15 min	7.71
SC-30.04	15 min	11.31	15 min	9.81
SC-31.01	15 min	2.51	15 min	2.21
SC-31.02	15 min	5.23	15 min	4.62
SC-32.01	15 min	2.72	15 min	2.36
SC-32.02	15 min	3.96	15 min	3.44
SC-33.01	15 min	2.79	15 min	2.56
SC-33.02	15 min	6.7	15 min	5.98
SC-34.01	15 min	2.36	15 min	2.07
SC-34.02	15 min	4.89	15 min	4.31
SC-34.03	15 min	5.84	15 min	5.17
SC-35.01	15 min	1.93	15 min	1.80
SC-35.02	15 min	5.65	15 min	5.06
SC-35.03	15 min	9.03	15 min	7.89
SC-35.04	15 min	9.72	15 min	8.51
SC-36.01	15 min	4.28	15 min	3.75
SC-36.02	15 min	7.72	15 min	6.64
SC-37.01	15 min	1.66	15 min	1.46
SC-37.02	15 min	4.84	15 min	4.22
SC-38.01	15 min	1.98	15 min	1.72
SC-39.01	15 min	1.12	15 min	1.02
SC-4.01	15 min	2.93	15 min	2.88
SC-40.01	15 min	2.52	15 min	2.33
SC-41.01	15 min	1.62	15 min	1.51
SC-42.01	15 min	5.59	15 min	5.20
SC-43.01	15 min	1.17	15 min	1.11
SC-44.01	15 min	3.49	15 min	3.46
SC-44.02	15 min	5.85	15 min	5.77
SC-44.03	15 min	8.08	15 min	7.91
SC-44.04	15 min	12.49	15 min	12.28
SC-44.05	15 min	22.52	15 min	22.16
SC-44.06	15 min	24.66	15 min	24.23
SC-44.07	15 min	29.38	15 min	29.29
SC-44.08	15 min	37.41	15 min	37.26
SC-44.09	15 min	41.4	15 min	41.22
SC-44.10	30 min	37.13	30 min	35.92
SC-44.11	30 min	95.92	30 min	91.34
SC-44.12	45 min	78.96	45 min	72.94
SC-44.13	45 min	78.36	45 min	72.09
SC-44.14	1.50 hour	87.86	1 hour	79.86
SC-44.15	1.50 hour	98.43	1 hour	86.30
SC-44.16	1.50 hour	98.88	1 hour	86.58
SC-44.17	1.50 hour	110.6	1 hour	91.89

SC-44.18	1.50 hour	111.84	1 hour	92.24
SC-44.19	1.50 hour	114.23	1 hour	92.56
SC-44.20	1.50 hour	98.45	1 hour	74.44
SC-45.01	15 min	2.75	15 min	2.74
SC-46.01	15 min	2.13	15 min	2.13
SC-46.02	15 min	3.84	15 min	3.81
SC-46.03	15 min	5.75	15 min	5.66
SC-46.04	15 min	6.52	15 min	6.43
SC-47.01	15 min	3.43	15 min	3.39
SC-48.01	15 min	2.58	15 min	2.57
SC-48.02	15 min	4.34	15 min	4.27
SC-49.01	15 min	2.94	15 min	2.89
SC-5.01	15 min	1.95	15 min	1.95
SC-50.01	15 min	1.15	15 min	1.15
SC-51.01	15 min	1.07	15 min	1.05
SC-52.01	15 min	1.07	15 min	1.05
SC-53.01	15 min	2.51	15 min	2.49
SC-53.02	15 min	5.53	15 min	5.47
SC-53.03	15 min	6.72	15 min	6.65
SC-54.01	15 min	2.04	15 min	2.03
SC-54.02	15 min	4.23	15 min	4.18
SC-55.01	15 min	3.16	15 min	3.14
SC-56.01	15 min	1.62	15 min	1.61
SC-57.01	15 min	1.26	15 min	1.25
SC-58.01	15 min	2.06	15 min	2.02
SC-59.01	15 min	2.83	15 min	2.80
SC-59.02	15 min	5.65	15 min	5.60
SC-59.03	15 min	8.23	15 min	8.07
SC-59.04	15 min	10.57	15 min	10.39
SC-59.05	15 min	24.14	15 min	23.73
SC-59.06	15 min	28.64	15 min	28.50
SC-59.07	15 min	50.07	15 min	48.87
SC-59.08	15 min	54.23	15 min	52.28
SC-59.09	15 min	66.89	15 min	64.18
SC-59.10	15 min	67.28	15 min	63.94
SC-6.01	15 min	2.29	15 min	2.27
SC-60.01	15 min	2.28	15 min	2.27
SC-60.02	15 min	8.7	15 min	8.59
SC-61.01	15 min	4.43	15 min	4.45
SC-62.01	15 min	2.49	15 min	2.45
SC-63.01	15 min	1.64	15 min	1.64
SC-64.01	15 min	2	15 min	1.80
SC-64.02	15 min	6.99	15 min	6.67
SC-64.03	15 min	13.22	15 min	12.27
SC-64.04	15 min	19.48	15 min	18.37
SC-65.01	15 min	1.46	15 min	1.42
SC-66.01	15 min	1.29	15 min	1.28
SC-66.02	15 min	3.45	15 min	3.35
SC-67.01	15 min	2.27	15 min	2.02
SC-68.01	15 min	3.18	15 min	2.79

SC-68.02	15 min	6.47	15 min	5.64
SC-68.03	15 min	11.32	15 min	9.92
SC-69.01	15 min	2.64	15 min	2.32
SC-7.01	15 min	3.75	15 min	3.35
SC-70.01	15 min	2.28	15 min	2.24
SC-70.02	15 min	3.79	15 min	3.67
SC-71.01	15 min	3.17	15 min	2.79
SC-71.02	15 min	6.29	15 min	5.67
SC-72.01	15 min	3	15 min	2.98
SC-73.01	15 min	2.62	15 min	2.46
SC-74.01	15 min	2.8	15 min	2.78
SC-75.01	15 min	2.18	15 min	1.92
SC-75.02	15 min	8.99	15 min	7.75
SC-75.03	15 min	12.93	15 min	11.29
SC-75.04	15 min	21.38	15 min	19.08
SC-76.01	15 min	3.13	15 min	2.76
SC-77.01	15 min	3.43	15 min	3.28
SC-77.02	15 min	5.32	15 min	4.95
SC-77.03	15 min	7.92	15 min	7.27
SC-78.01	15 min	3.12	15 min	3.10
SC-79.01	15 min	3.54	15 min	3.45
SC-79.02	15 min	6.55	15 min	6.37
SC-79.03	15 min	14.84	15 min	14.38
SC-8.01	15 min	2.88	15 min	2.83
SC-8.02	15 min	7.54	15 min	6.96
SC-8.03	15 min	20.29	15 min	18.10
SC-8.04	15 min	35.11	15 min	31.54
SC-8.05	15 min	39.18	15 min	34.99
SC-8.06	15 min	41.34	15 min	36.91
SC-80.01	15 min	3.27	15 min	3.25
SC-80.02	15 min	6.95	15 min	6.86
SC-81.01	15 min	3.01	15 min	2.65
SC-81.02	15 min	8.77	15 min	7.66
SC-82.01	15 min	3.32	15 min	2.92
SC-83.01	15 min	1.85	15 min	1.84
SC-84.01	15 min	3.21	15 min	2.82
SC-84.02	15 min	7.97	15 min	7.02
SC-84.03	15 min	10.57	15 min	9.31
SC-84.04	15 min	12.5	15 min	11.03
SC-84.05	15 min	15.37	15 min	13.60
SC-84.06	15 min	17.53	15 min	15.50
SC-85.01	15 min	1.97	15 min	1.71
SC-86.01	15 min	2.58	15 min	2.56
SC-86.02	15 min	5.21	15 min	5.11
SC-87.01	15 min	4.26	15 min	3.73
SC-87.02	15 min	7.54	15 min	6.56
SC-88.01	15 min	1.95	15 min	1.80
SC-88.02	15 min	3.48	15 min	3.17
SC-89.01	15 min	2.11	15 min	1.93
SC-89.02	15 min	2.49	15 min	2.26

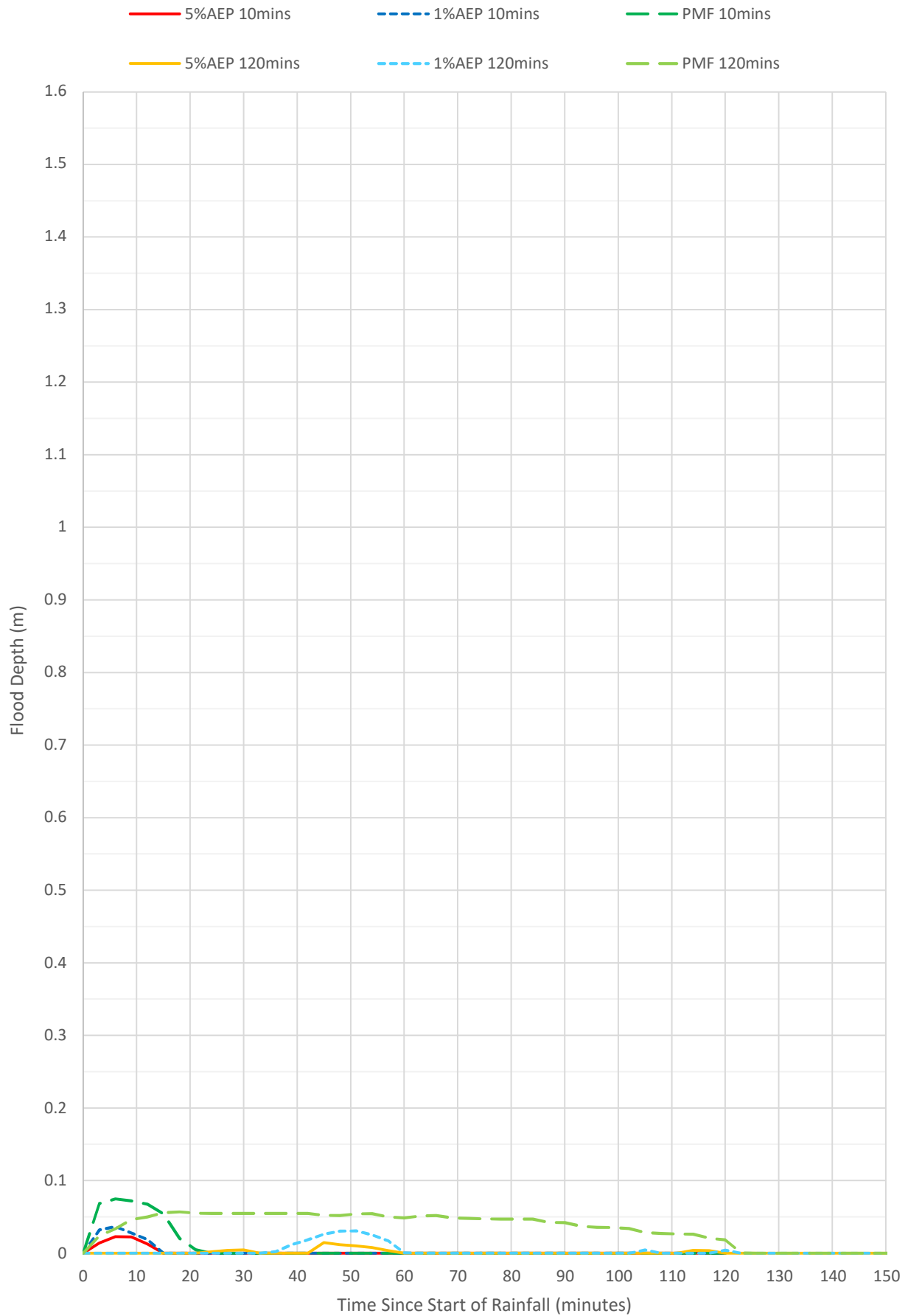
SC-9.01	15 min	2.73	15 min	2.44
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SC-91.01	15 min	2.38	15 min	2.22
SC-91.02	15 min	5.21	15 min	4.87
SC-92.01	15 min	2.45	15 min	2.47
SC-92.02	15 min	7.12	15 min	7.15
SC-93.01	15 min	2.75	15 min	2.56
SC-94.01	15 min	2.9	15 min	2.64
SC-94.02	15 min	7.12	15 min	6.67
SC-95.01	15 min	1.49	15 min	1.57
SC-95.02	15 min	3.76	15 min	3.93
SC-96.01	15 min	1.69	15 min	1.77
SC-97.01	15 min	1.26	15 min	1.18
SC-97.02	15 min	7.95	15 min	7.44
SC-98.01	15 min	2.32	15 min	2.15
SC-99.01	15 min	1.98	15 min	2.06
SC-99.02	15 min	5.82	15 min	6.09
SC-99.03	15 min	10.1	15 min	10.56
SC-99.04	15 min	27.37	15 min	28.29
Dummy1	15 min	142.9	15 min	177.38
Dummy2	30 min	246.18	30 min	285.08
Dummy3	45 min	520.92	45 min	510.49
DummyOut	1.50 hour	647.48	1.50 hour	554.77

Appendix I

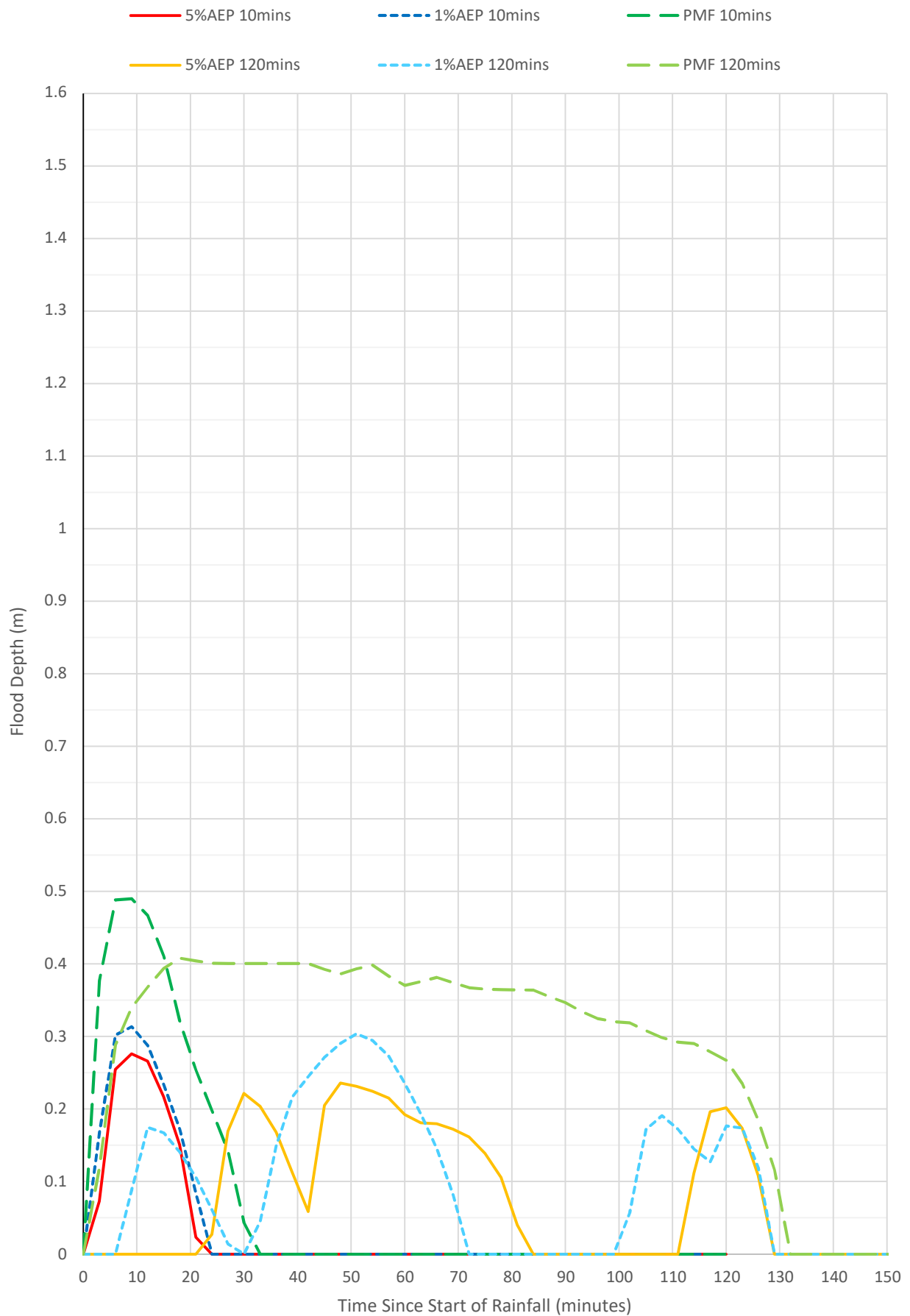
Water Depth Hydrographs for Major Roads



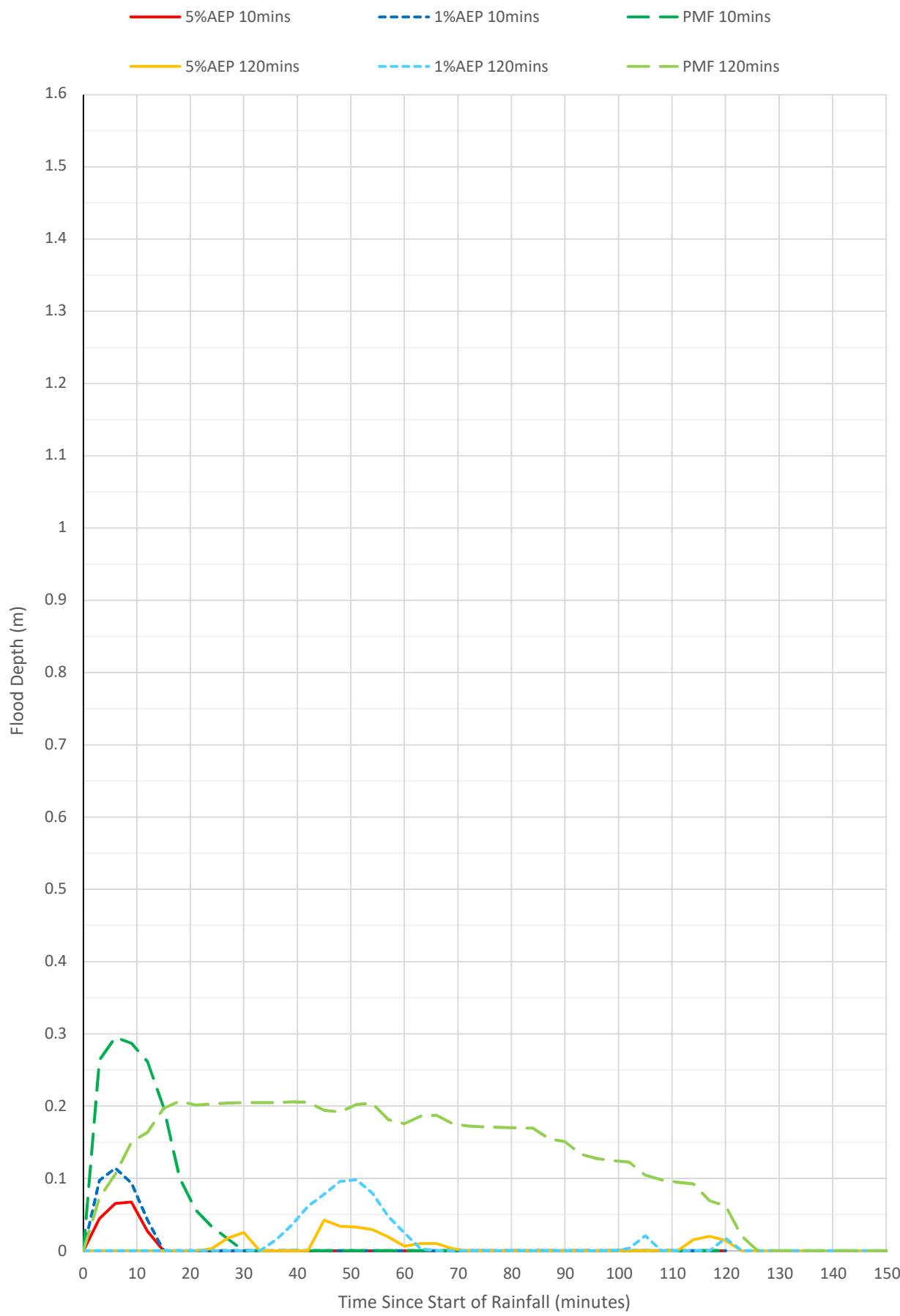
Location 1: Georges River Road



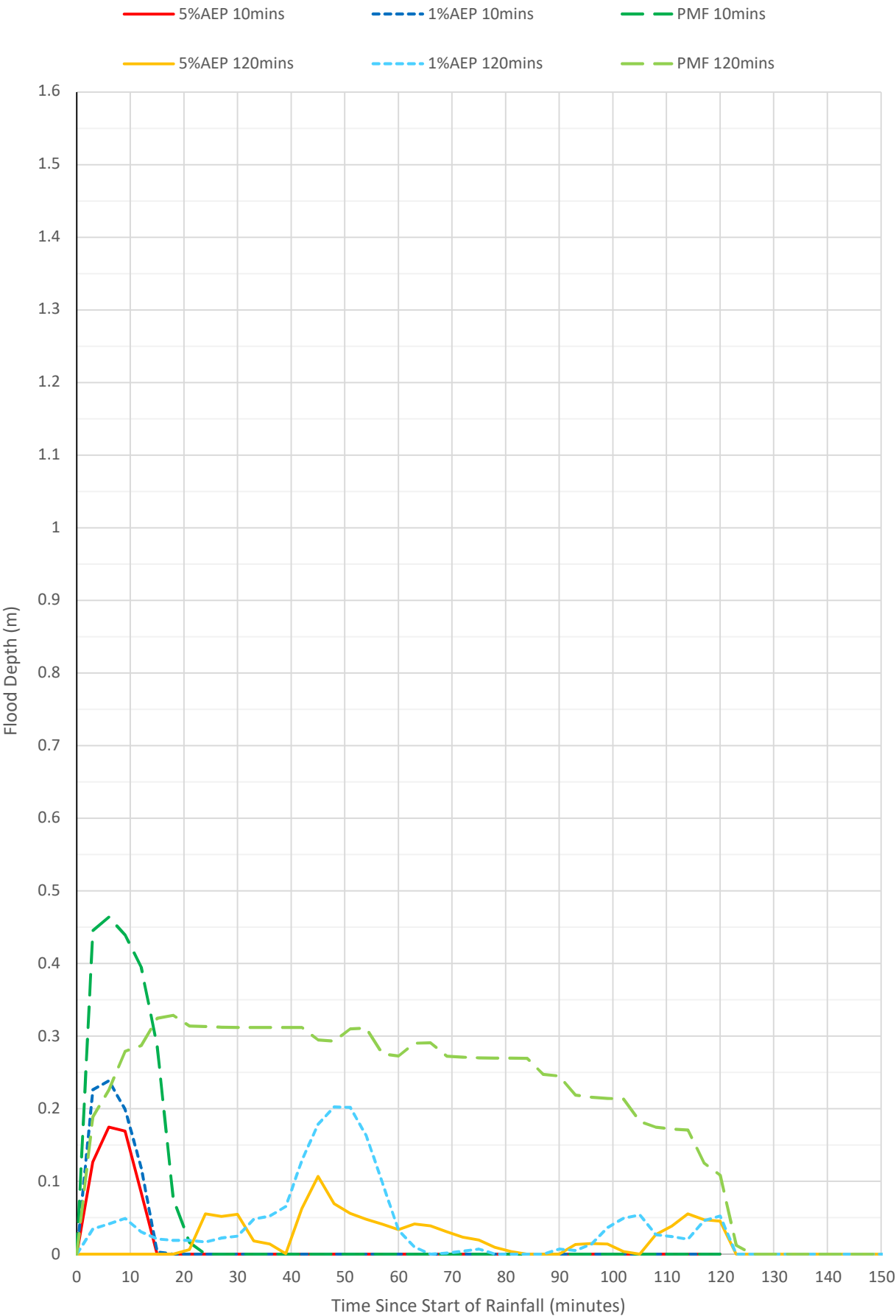
Location 2: Peppin Crescent



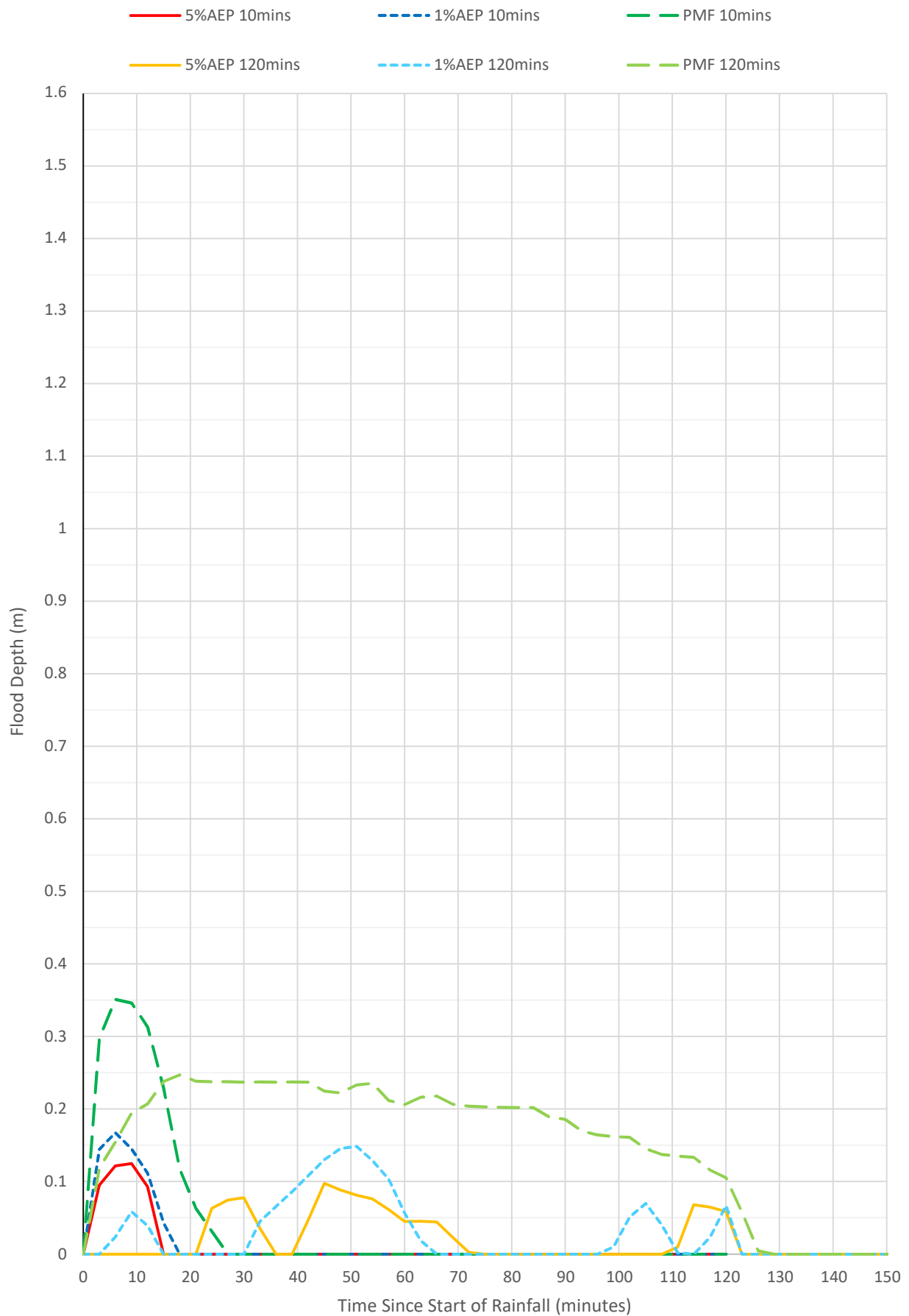
Location 3: Riverside Drive



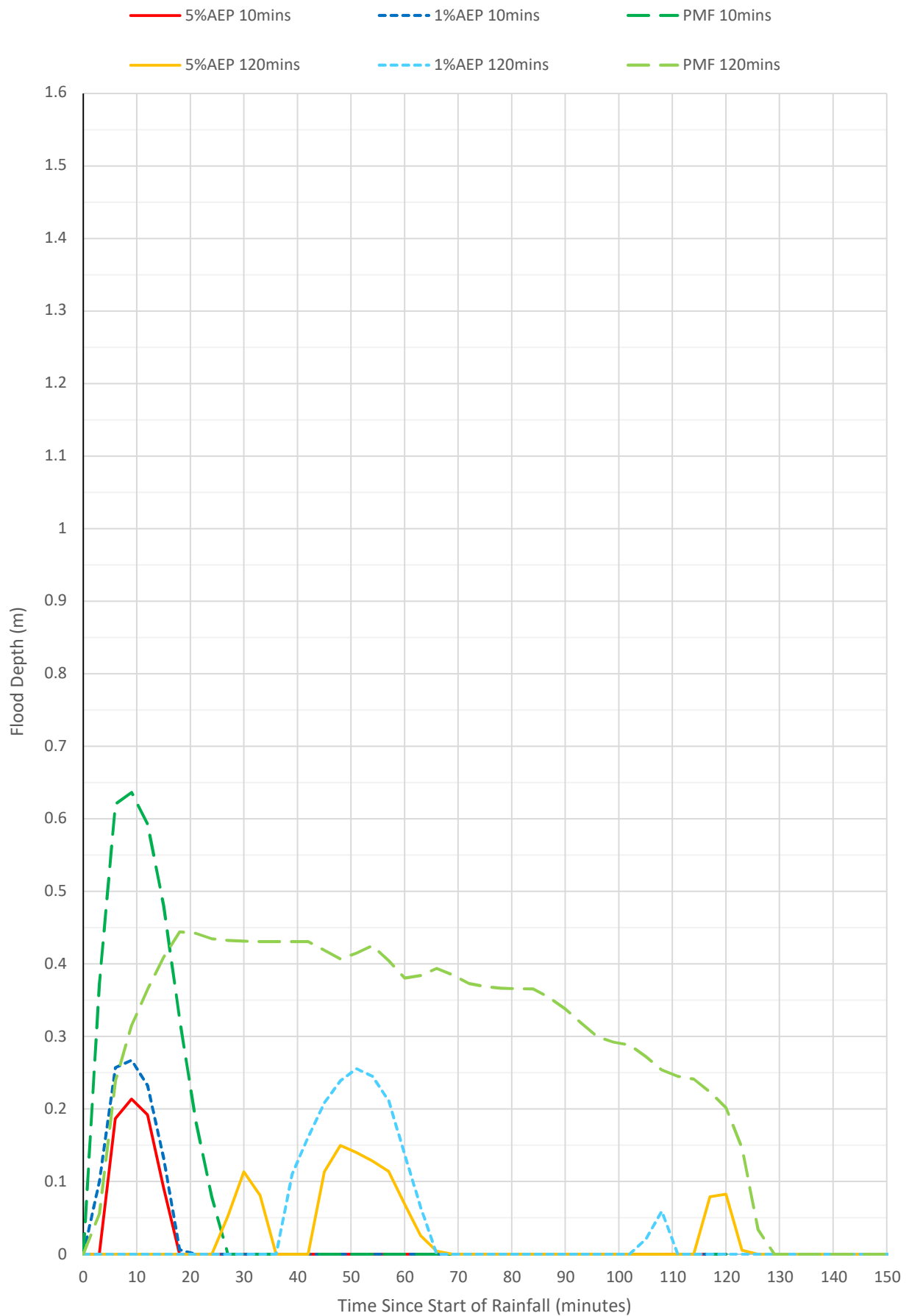
Location 4: Riverside Drive



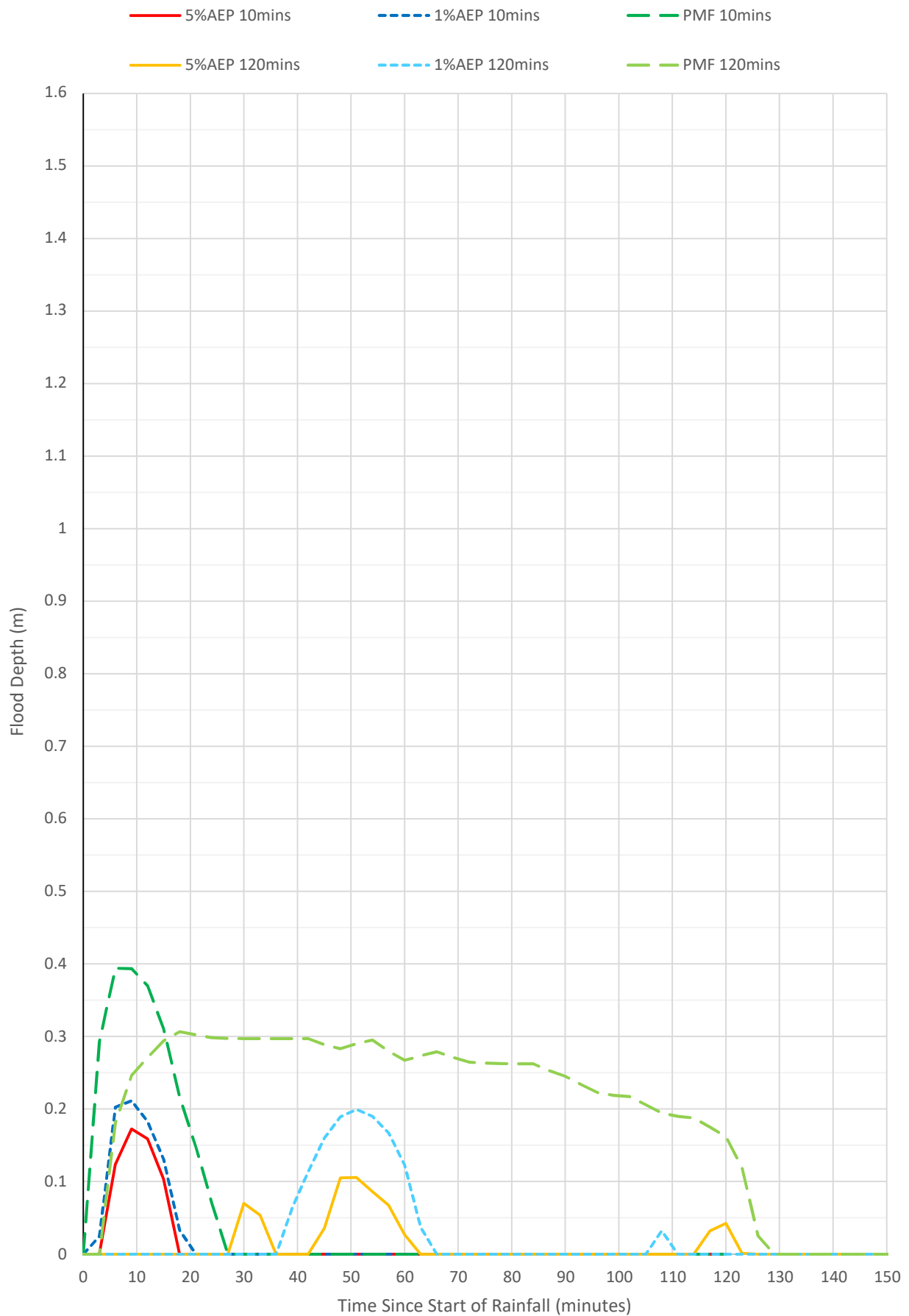
Location 5: Greengate Road



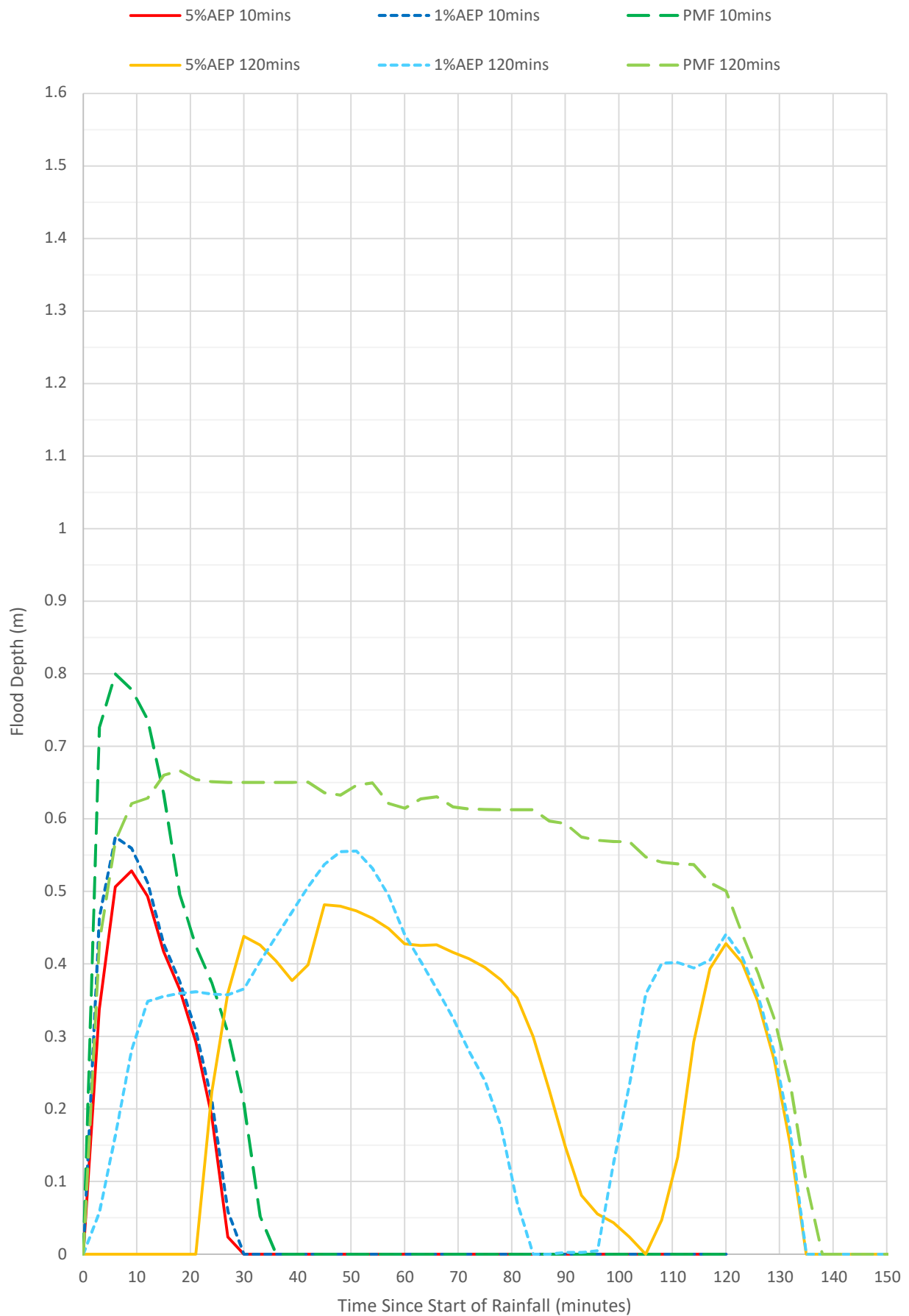
Location 6: Greengate Road



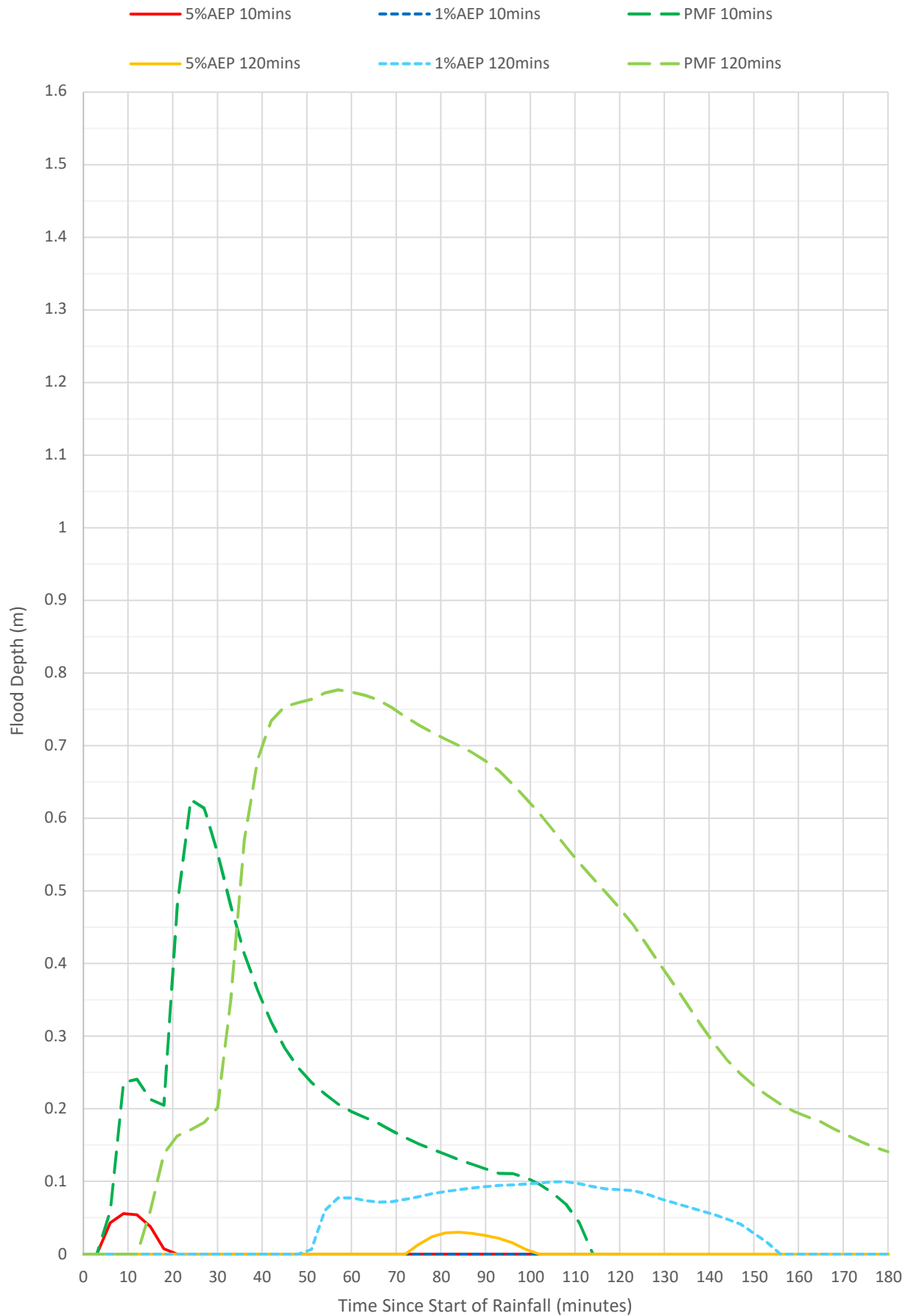
Location 7: Karrabul Road



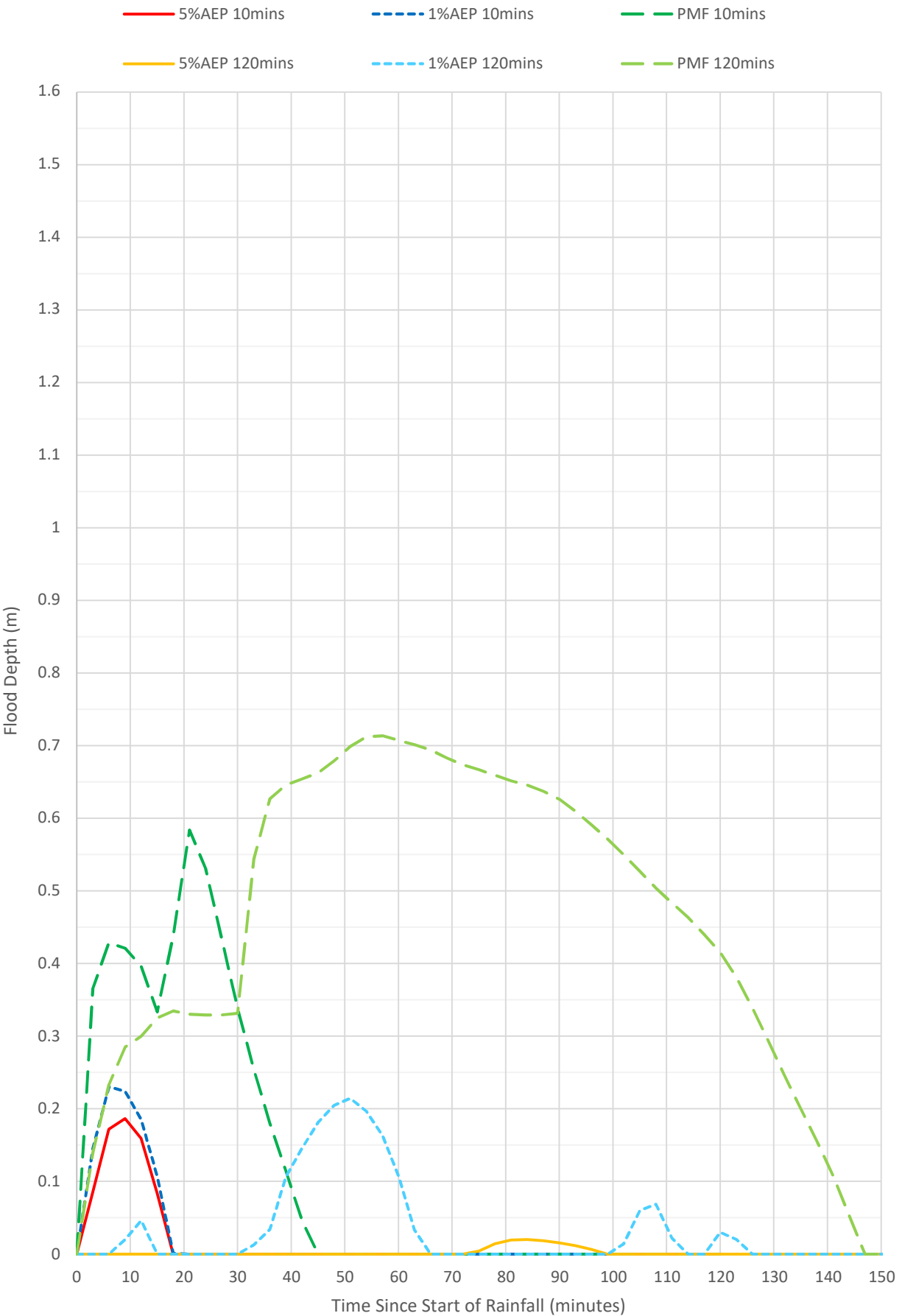
Location 8: Pinaroo Crescent



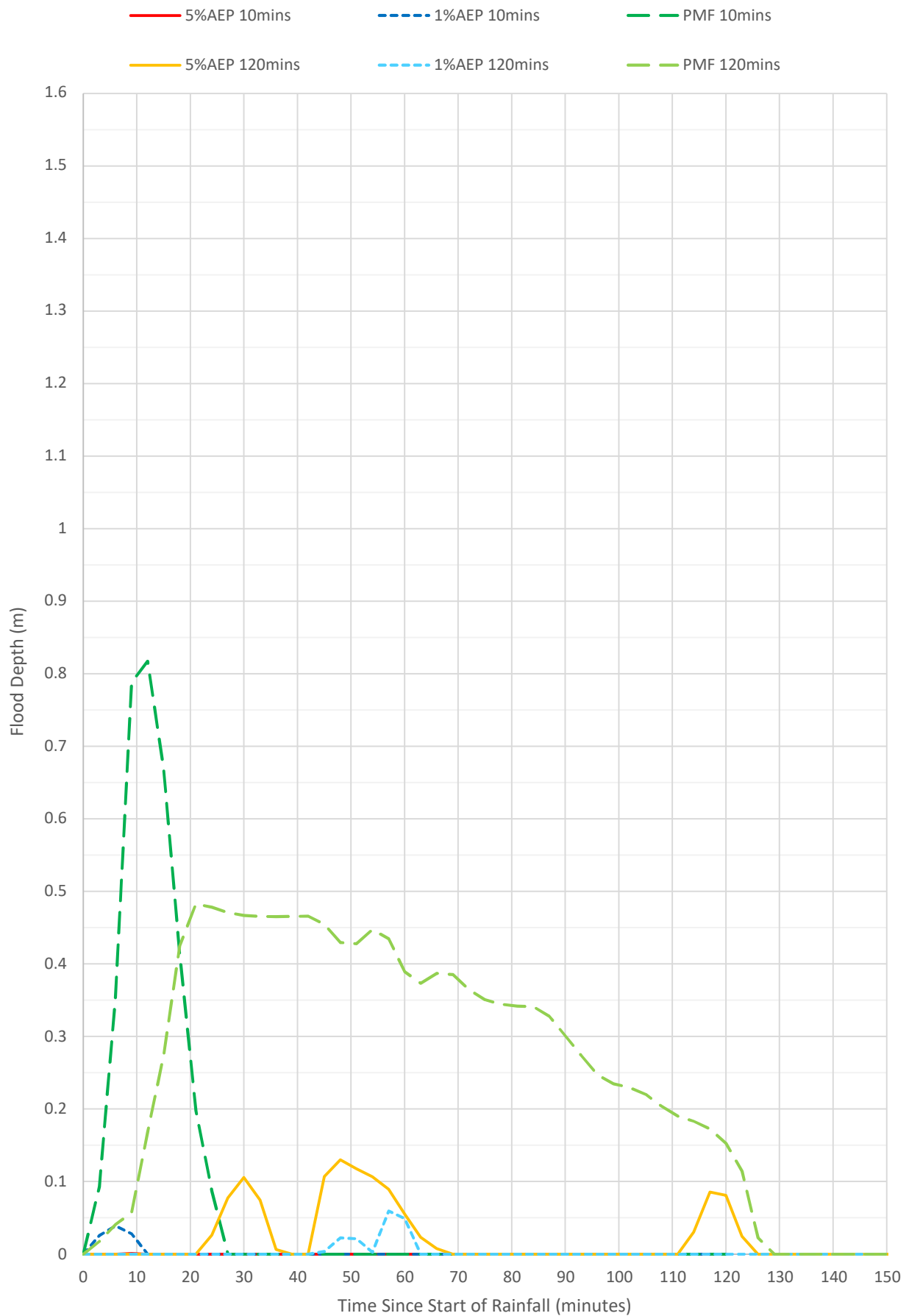
Location 9: St Helens Park Drive



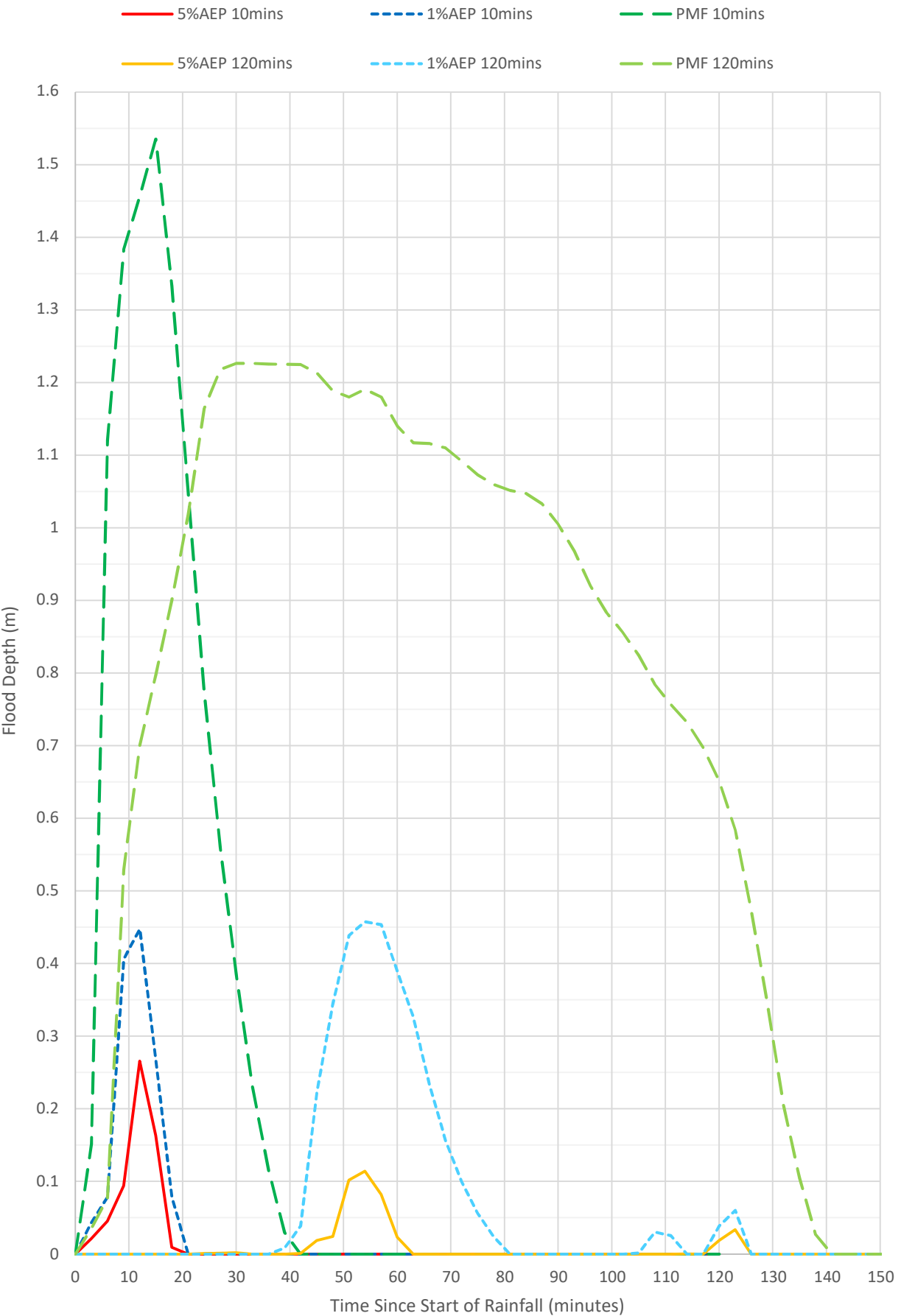
Location 10: Cleopatra Drive



Location 11: Demetrius Drive



Location 12: Copperfield Drive



Location 13: Appin Road

