

April 01, 2026

Project Number: P2710(e01)

Stratford Foxrun
6286 Prince of Wales Drive
North Gower, ON
K0A 2T0

Attention: Joshua Laginski, P.Eng

**Subject: Stratford Foxrun Development- 5923 Ottawa Street, Richmond
Ditch Hydrologic and Hydraulic Analysis**

RATIONALE FOR UPDATE

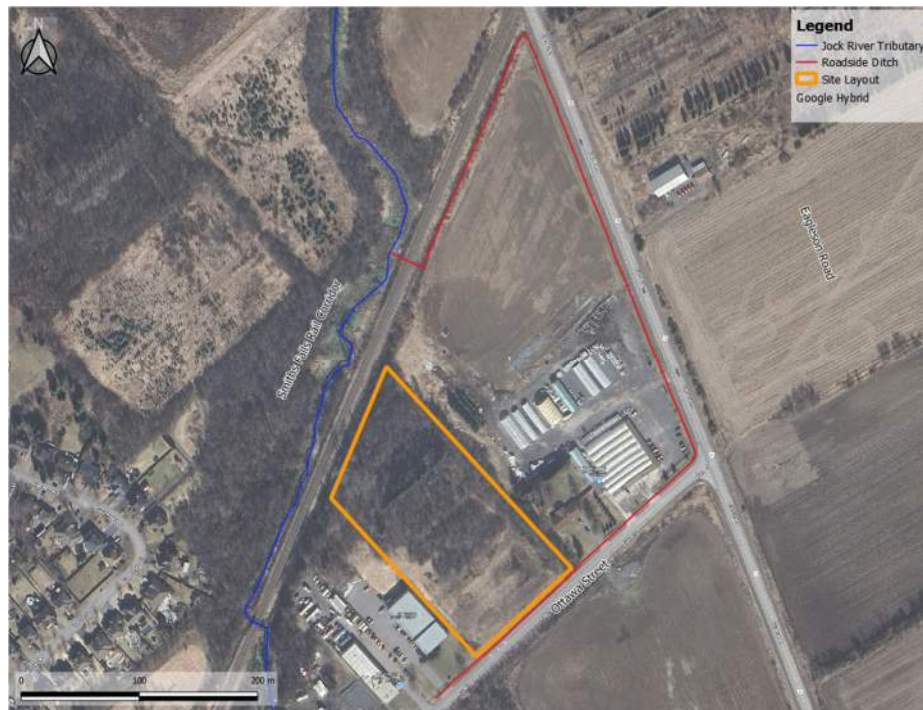
The following memo has been revised to address comments received from the City of Ottawa on February 24, 2026, titled “*Site Plan Control Application D07-12-25-0078 - Part of Lot 25, Concession 3*”. Updates in this memo include refinements to the roof top storage volume calculations on the buildings, refined subcatchment connectivity in the hydrologic model, as well as the incorporation of additional calculations and supporting text to address RVCA comments. These updates ensure consistency with the latest design information and compliance with applicable City of Ottawa guidelines.

OVERVIEW

Egis Group has commissioned JFSA Canada Inc. to develop detailed hydrologic and hydraulic models for the proposed Stratford Foxrun development. This development, located at 5923 Ottawa Street in Richmond, Ontario, will include local depressions within the site that will act as stormwater management controls to mitigate increases in peak flows resulting from the development. The site will outlet into an existing roadside ditch on Ottawa Street before proceeding east to Eagleson Road and then turning north towards the rail corridor before finally discharging into Marlborough Creek, which is a tributary of the Jock River.

This memo presents a downstream hydrologic and hydraulic analysis of the aforementioned roadside ditch, specifically quantifying its capacity from 5923 Ottawa Street to the Marlborough Creek. **Figure 1** illustrates the development's location and extent, as well as the road site ditch relative to its outlet at Marlborough Creek.

Figure 1: Site Boundary and Existing Watercourse



HYDROLOGY

Existing Conditions

Drainage Areas

Existing drainage areas for this study were delineated using a comprehensive Digital Terrain Model (DTM). This DTM was developed from two primary sources: LiDAR data, obtained from the LIO (Land Information Ontario) Digital Terrain Model and flown in 2019-2020, and a detailed topographic survey of the existing ditch and associated crossings completed by Egis in January 2025. This combined data was then imported into GIS software. Watershed delineation algorithms were subsequently applied to the DTM to automatically define the drainage areas. These automated delineations were manually reviewed against relevant previous studies and existing drainage delineations for accuracy and consistency. **Figure A1 in Attachment A** provides a visual overview of the existing drainage areas within the study area.

Land Use

Land use data has been taken from Land Information Ontario's (LIO) Land Use Data and then discretized based on the respective subcatchments. **Figure A2 in Attachment A** provides a visual overview of the respective land use data for each of the subcatchments within the study area.

Soil/Infiltration Data

Soil data within the study area has been taken from the Soil Survey Complex Data available on Land Information Ontario (LIO). **Figure A3 in Attachment A** provides a visual overview of the respective soil type data for each of the subcatchments within the study area. A full breakdown of the soil data for each drainage area has also been provided in **Table A1 in Attachment A**.

Curve Number (CN)

Based on the underlying Land Use Type and Soil Classification at each location within a subcatchment, a Curve Number (CN) was calculated, based on applicable values outlined in Tables A2 and A3 in the SWMHYMO Manual. Each Curve Number was then weighted based on the total area within a given subcatchment to determine the weighted CN for that subcatchment. The CN values calculated were then converted to CN*. Note that the traditional CN procedure assumes that Initial Abstraction (IA) = 0.2S. However, the traditional CN method is subject to errors because of this assumption, particularly for smaller rainfall events. Instead, it is recommended that a modified CN* and a user-defined IA value be used for SWMHYMO modelling. Modified CN* values have been shown to correlate well with measured flows and perform well in continuous SWMHYMO modelling (as discussed in the July 1989 INTERHYMO / OTTHYMO 89 Manual). The CN values derived were converted to CN* based on the formula provided in the November 2002 Runoff Curve Number Method: Examination of the Initial Abstract Ratio paper, and applied to the hydrologic model.

$$CN^* = \frac{100}{1.879 \left[\frac{100}{CN} - 1 \right]^{1.15} + 1}$$

Table A1 in Attachment provides a full summary of the CN/CN* calculations for each of the predevelopment subcatchments.

Time to Peak (tp)

For natural areas within the study area, the time to peak values for each of the subcatchments has been calculated based on existing topography. Flow paths have been discretized based on the topographic data using GIS tools, and the longest major flow path within each subcatchment has been identified; refer to Figure B6 in Attachment B for the flow paths discretized for each subcatchment. The upstream and downstream topographic elevations and flow lengths were identified for each subcatchment and used in the calculations. For these natural subcatchments, the Federal Aviation Administration (FAA) method was determined to be the most appropriate method to calculate the Time to Peak.

Other methods, such as the Uplands method, were also included in that analysis. The FAA method was selected for use in the final model because it produced longer time-to-peak (Tp) values for the same catchments, resulting in lower peak flows under pre-development conditions. These lower peak flows were then used to establish allowable release rates for the proposed stormwater management facilities.

This approach results in a more conservative design, as the SWM controls are sized to ensure post-development flows do not exceed these lower pre-development thresholds. While the Uplands method is preferred in the Sewer Design Guidelines (Appendix 5-D), the FAA method remains suitable for flat, rural catchments with longer overland flow paths, which characterizes the study area. Therefore, the FAA-based design applied in this analysis is more conservative and protective of downstream infrastructure.

Full details of these calculations have been provided in **Table A2 in Attachment A**, along with other time-to-peak values using alternative tp calculation methods.

Existing SWMHYMO modelling

An existing conditions SWMHYMO model of the drainage areas was developed based on the pre-development drainage areas provided. To represent the existing undeveloped lands, CALIB NASHYDs have been used, with Initial Abstraction (IA)=4.67 mm, and Number of Linear Reservoirs (N)=3. Full input and summary files of the existing conditions model have been provided in Attachment A

Channel Routing

To account for channel routing throughout the study area, LiDAR has been used to approximate the channel cross-section and associated flow parameters (length & slope). **Figure A4 in Attachment A** outlines the major flow paths within the study area, which have been used to account for channel routing and time to peak calculations within the subcatchments.

Design & Historical Storms

The stormwater management analysis incorporates both standard design storms and historical storm events in accordance with the City of Ottawa's guidelines. The selected design storms include the 3-hour Chicago distribution and the 24-hour SCS distribution, which are consistent with standard practice for stormwater management design in the region.

The 3-hour Chicago storm is widely used for urban infrastructure analysis because it provides a balanced representation of peak intensity and total rainfall volume. This duration is sufficient to generate meaningful runoff volumes for sizing stormwater management controls while capturing peak intensities that challenge conveyance systems. Although shorter-duration storms (e.g., 1-hour 100-year) exhibit higher peak intensities, their lower total rainfall volume often results in less conservative storage sizing. Conversely, the 24-hour SCS storm is included to assess broader floodplain impacts and downstream conveyance performance.

In addition to these design storms, the following historical events were simulated as per City requirements: July 1, 1979, August 4, 1988, and August 8, 1996. These events provide additional validation of system performance under real-world conditions and help ensure resiliency of the proposed stormwater management system.

Proposed Conditions

Drainage Areas & Imperviousness

For the Stratford Foxrun development under proposed conditions, Egis provided JFSA with detailed design drawings that included drainage areas and associated imperviousness. The proposed development lot layout and the associated drainage areas have been provided in **Figure B1 of Attachment B**. To represent the proposed Stratford Foxrun development lands, DESIGN STANDHYDs have been used, with default parameters per the City of Ottawa Storm Sewer Design Guidelines. For existing natural areas where the total drainage boundary was modified due to the proposed development footprint (e.g., catchments Pre2 and Pre9), the hydrologic parameters—specifically the Curve Number (CN) and Time to Peak (Tp)—were recalculated to accurately reflect the reduced drainage area, updated land cover proportions, and revised flow path characteristics.

Onsite SWM Controls

Egis's design for the proposed development included detailed grading of localized depressions within the site that will act as onsite stormwater management controls, along with corresponding stage-storage tables. These stage-storage tables were directly incorporated into the hydrologic model. This integration allowed for the determination of appropriate outlet configurations for these facilities, as well as an accurate assessment of the storage volumes provided by the proposed depressions. Full detailed Stage/Storage/Outflow curves have been provided in **Tables B1 and B2 in Attachment B**. Based on this analysis, both sites will have a **75 mm** orifice at the bottom of the localized depression area and a **30cm** overflow weir at an elevation of **94.40m** and for extreme events.

Roof Top Storage

To optimize on-site attenuation, the design assumes the use of rooftop storage for both sites. Storage volumes and release rates determined by Egis were integrated into the model as stage-storage-discharge (route reservoir) curves, with full details provided in **Tables B3 and B4**.

Results

Onsite Controls Summary

Table 2 provides a comprehensive overview of the maximum storage volumes achieved at each of these locations across various return periods, in addition to their associated peak outflows and maximum water levels.

Table 1: Site Release Rates / Required Storage Volume / Ponding Depth/WSE

Event	Site 1 (0.480 ha)					Site 2 (0.447 ha)				
	Peak Inflow (m ³ /s)	Peak Outflow (m ³ /s)	Pond Volume (m ³)	Pond WSE (m)	Pond Depth (m)	Peak Inflow (m ³ /s)	Peak Outflow (m ³ /s)	Pond Volume (m ³)	Pond WSE (m)	Pond Depth (m)
2YrCHI3Hr	0.035	0.006	39	94.13	0.288	0.029	0.006	34	94.03	0.323
5YrCHI3Hr	0.056	0.007	71	94.20	0.363	0.048	0.008	61	94.15	0.443
10YrCHI3Hr	0.075	0.007	93	94.25	0.407	0.064	0.008	81	94.21	0.503
25YrCHI3Hr	0.098	0.008	123	94.30	0.463	0.084	0.009	108	94.28	0.567
50YrCHI3Hr	0.113	0.008	146	94.34	0.504	0.097	0.009	129	94.32	0.613
100YrCHI3Hr	0.134	0.009	172	94.39	0.547	0.116	0.009	152	94.37	0.660
2YrSCS24Hr	0.038	0.006	48	94.15	0.310	0.033	0.007	42	94.08	0.366
5YrSCS24Hr	0.059	0.007	78	94.22	0.377	0.051	0.008	68	94.18	0.467
10YrSCS24Hr	0.074	0.007	99	94.26	0.418	0.065	0.008	87	94.23	0.517
25YrSCS24Hr	0.092	0.008	126	94.31	0.468	0.081	0.009	111	94.28	0.574
50YrSCS24Hr	0.105	0.008	147	94.35	0.505	0.092	0.009	130	94.33	0.616
100YrSCS24Hr	0.120	0.008	169	94.38	0.542	0.106	0.009	150	94.37	0.656
July 1st, 1979	0.099	0.017	220	94.46	0.625	0.091	0.017	197	94.46	0.749
August 4th, 1988	0.133	0.010	188	94.41	0.573	0.128	0.010	167	94.40	0.689
August 8th, 1996	0.075	0.008	159	94.37	0.526	0.066	0.009	136	94.34	0.628
100YrCHI+20%	0.202	0.016	216	94.46	0.618	0.191	0.016	194	94.45	0.743

Peak Flows at Key Locations

The model was run for both existing and proposed conditions, and peak flows were extracted from the key nodes within the watercourse (refer to **Figure A4** for locations). **Table 2** outlines the peak flows for various return periods at each node, covering both the 3-hour Chicago and 24-hour SCS storms for 2- to 100-year events, along with the stress test and historical events.

The existing roadside ditches are well-vegetated and currently exhibit no significant signs of erosion. For the more frequent events that exhibit slight increases in peak flows, hydraulic modeling indicates that the average post-development channel velocity for the 5-year Chicago event is approximately 0.35 m/s. According to the MTO Drainage Management Manual, grassed channels in easily erodible soils (such as silty clays) have a maximum permissible average velocity of 0.8 m/s, placing the modeled average velocities well below this conservative threshold. Furthermore, the absolute maximum velocities within the ditch remain below 1.5 m/s under all analyzed conditions. This complies with the maximum permissible velocity for grassed roadside ditches without requiring bioengineering stabilization measures, as outlined in Section 2.3 of SD-9 Roadside Ditches from the MTO Highway Drainage Design Standards. Therefore, it can be concluded that the modest increase in flow rates during smaller storm events will not result in adverse erosion within the grassed channel.

Regarding the internal stormwater management (SWM) controls, both sites will utilize a 75 mm orifice at the outlet to maximize the storage capacity of these depression areas; this is the smallest allowable outlet size per MECP SWM guidelines. During the 100-Year + 20% Climate Change stress test event, the maximum simulated peak outflows from Pond 1 and Pond 2 are heavily restricted by these orifices to 16 L/s, respectively.

To connect the internal cells of the SWM facility, a 375 mm HDPE pipe laid at an approximate 1% slope is proposed at both locations. Calculations utilizing Manning's equation demonstrate that a pipe of this size and slope provides a free-flowing (non-surcharged) capacity of approximately 175 L/s. Detailed hydrologic modeling indicates that the absolute maximum peak inflows directed into the entirety of Pond 1 and Pond 2 during the stress test event are 202 L/s and 191 L/s, respectively. Because these internal culverts are only intended to convey runoff from less than half of the total drainage area contributing to the SWM ponds, the actual flow traversing these pipes will be significantly lower than the total pond inflows quoted above. Ultimately, the downstream 75 mm orifice structure dictates the hydraulic grade line and controls the water levels throughout the entire SWM facility. Therefore, the proposed 375 mm connecting pipes are sufficiently sized and will not restrict conveyance or adversely impact pond water levels.

Table 2: Pre and Post Development Peak Flow Summary

Event	Node	J1		Node	J2		Node	J3		Node	J4	
	Pre	Post	Diff	Pre	Post	Diff	Pre	Post	Diff	Pre	Post	Diff
Area (ha)	0.85	1.23	0.38	4.62	5	0.38	4.93	5.31	0.38	5.52	5.9	0.38
2YrCHI3Hr	0.015	0.019	0.004	0.057	0.062	0.005	0.061	0.065	0.004	0.067	0.072	0.005
5YrCHI3Hr	0.026	0.027	0.001	0.102	0.102	0.000	0.109	0.109	0.000	0.121	0.122	0.001
10YrCHI3Hr	0.035	0.032	-0.003	0.136	0.132	-0.004	0.145	0.142	-0.003	0.162	0.159	-0.003
25YrCHI3Hr	0.047	0.038	-0.009	0.181	0.173	-0.008	0.194	0.185	-0.009	0.218	0.209	-0.009
50YrCHI3Hr	0.057	0.043	-0.014	0.219	0.205	-0.014	0.234	0.220	-0.014	0.263	0.249	-0.014
100YrCHI3Hr	0.067	0.048	-0.019	0.258	0.239	-0.019	0.277	0.258	-0.019	0.311	0.292	-0.019
2YrSCS24Hr	0.024	0.024	0.000	0.090	0.091	0.001	0.096	0.097	0.001	0.107	0.108	0.001
5YrSCS24Hr	0.038	0.032	-0.006	0.148	0.142	-0.006	0.158	0.152	-0.006	0.177	0.171	-0.006
10YrSCS24Hr	0.049	0.038	-0.011	0.189	0.178	-0.011	0.202	0.191	-0.011	0.227	0.216	-0.011
25YrSCS24Hr	0.062	0.044	-0.018	0.242	0.224	-0.018	0.259	0.242	-0.017	0.291	0.274	-0.017
50YrSCS24Hr	0.073	0.049	-0.024	0.284	0.260	-0.024	0.305	0.281	-0.024	0.343	0.320	-0.023
100YrSCS24Hr	0.084	0.055	-0.029	0.329	0.300	-0.029	0.354	0.325	-0.029	0.399	0.370	-0.029
July 1st, 1979	0.090	0.065	-0.025	0.372	0.350	-0.022	0.399	0.376	-0.023	0.448	0.425	-0.023
August 4th, 1988	0.079	0.053	-0.026	0.314	0.288	-0.026	0.338	0.313	-0.025	0.379	0.355	-0.024
August 8th, 1996	0.052	0.040	-0.012	0.210	0.199	-0.011	0.226	0.215	-0.011	0.254	0.243	-0.011
100YrCHI+20%	0.090	0.065	-0.025	0.346	0.326	-0.020	0.372	0.350	-0.022	0.419	0.397	-0.022

Table 2: Pre and Post Development Peak Flow Summary

Event	Node	J5		Node	J6		Node	J7		Node	J8	
	Pre	Post	Diff	Pre	Post	Diff	Pre	Post	Diff	Pre	Post	Diff
Area (ha)	6.86	7.24	0.38	1.09	1.1	0.01	1.92	1.53	-0.39	13.18	13.18	0
2YrCHI3Hr	0.080	0.086	0.006	0.016	0.022	0.006	0.020	0.020	0.000	0.141	0.146	0.005
5YrCHI3Hr	0.147	0.149	0.002	0.028	0.028	0.000	0.037	0.037	0.000	0.266	0.266	0.000
10YrCHI3Hr	0.197	0.196	-0.001	0.038	0.038	0.000	0.050	0.050	0.000	0.363	0.359	-0.004
25YrCHI3Hr	0.267	0.260	-0.007	0.052	0.052	0.000	0.069	0.069	0.000	0.496	0.486	-0.010
50YrCHI3Hr	0.323	0.312	-0.011	0.063	0.063	0.000	0.084	0.084	0.000	0.605	0.589	-0.016
100YrCHI3Hr	0.384	0.368	-0.016	0.076	0.076	0.000	0.101	0.100	-0.001	0.725	0.704	-0.021
2YrSCS24Hr	0.128	0.130	0.002	0.025	0.025	0.000	0.034	0.033	-0.001	0.234	0.235	0.001
5YrSCS24Hr	0.215	0.211	-0.004	0.043	0.043	0.000	0.057	0.057	0.000	0.402	0.395	-0.007
10YrSCS24Hr	0.277	0.268	-0.009	0.056	0.056	0.000	0.075	0.074	-0.001	0.520	0.508	-0.012
25YrSCS24Hr	0.357	0.342	-0.015	0.073	0.073	0.000	0.097	0.096	-0.001	0.679	0.659	-0.020
50YrSCS24Hr	0.421	0.401	-0.020	0.087	0.087	0.000	0.116	0.114	-0.002	0.805	0.781	-0.024
100YrSCS24Hr	0.491	0.465	-0.026	0.102	0.102	0.000	0.137	0.135	-0.002	0.944	0.912	-0.032
July 1st, 1979	0.557	0.534	-0.023	0.103	0.103	0.000	0.145	0.139	-0.006	1.063	1.026	-0.037
August 4th, 1988	0.462	0.441	-0.021	0.093	0.092	-0.001	0.127	0.123	-0.004	0.888	0.863	-0.025
August 8th, 1996	0.308	0.300	-0.008	0.063	0.063	0.000	0.087	0.084	-0.003	0.590	0.579	-0.011
100YrCHI+20%	0.519	0.499	-0.020	0.104	0.104	0.000	0.139	0.138	-0.001	0.989	0.960	-0.029

HYDRAULICS

The detailed hydraulic analysis of the downstream study area was conducted using the US Army Corps of Engineers HEC-RAS software (version 6.6). The purpose of this hydraulic analysis is to assess the hydraulic impacts that the proposed Stratford Foxrun development may have on existing water levels for the applicable design storms.

Model Development & Parameters

The primary method used to establish cross-sections involved detailed topographic surveying, typically conducted at approximately 50-meter intervals along the watercourse. These measurements were supplemented with LiDAR data in the floodplain to enhance spatial coverage and resolution. This close spacing is essential for accurately representing the hydraulic characteristics and flow conveyance capacity of the existing channel. The selected interval aligns with HEC-RAS best practices for open-channel flow modelling in rural systems, particularly where channel geometry and slope are relatively uniform. In general, cross-section spacing between 30 and 100 meters is considered appropriate for natural channels, unless abrupt changes in geometry, slope, or hydraulic controls are present.

To ensure the model captured localized hydraulic effects, additional cross-sections were inserted at key hydraulic structures (e.g., culverts and driveway crossings) and at locations where notable changes in channel geometry or slope occurred. This approach allowed for an accurate representation of hydraulic behaviour without introducing unnecessary complexity or instability into the model. In areas not explicitly surveyed, supplementary cross-sections were generated by sampling the merged LiDAR and topographic Digital Terrain Model (DTM). This ensured that all critical sections were included to accurately reflect channel hydraulics. The extent and location of all model cross-sections are illustrated in **Figure C1** of **Attachment C**.

Existing hydraulic infrastructure, such as culverts, on the respective watercourses, was incorporated into the model based on the details obtained from the topographic surveys. Consistent with HEC-RAS technical guidelines, ineffective flow areas and expansion-contraction coefficients were appropriately applied at these locations. Typical Manning's values of 0.035 and 0.05 were applied to the roadside ditch channel bottom and over banks, respectively.

A normal downstream boundary condition was applied for all events due to the substantial difference in drainage area between Marlborough Creek and the roadside ditch. The study area at the confluence with Marlborough Creek has a drainage area of **13.1 ha**, with a channel length of **1.034 km** and an average slope of **0.6%**, based on detailed modelling presented in this report. In contrast, Marlborough Creek at the same location has a drainage area of **437.4 ha**, a channel length of **5.120 km**, and an average slope of **0.26%**, as per the Ontario Watershed Information Tool. Using the velocity method outlined in Chapter 15 of the USDA's Hydrology National Engineering Handbook, the time to peak for the study area was calculated to be **1.2 hours**, while the time to peak for Marlborough Creek was estimated at **8.8 hours**. A full summary of these calculations is provided in **Table 3** below. Given the significant difference in time to peak between the two systems, it is evident that peak flows from the study area and Marlborough Creek cannot coincide. Therefore, the application of a normal downstream boundary condition is considered appropriate.

Table 3: Watercourse Time to Peak Calculations

Parameter	Units	Study Area	Malbrough Creek
Area	(ha)	13.1	437.4
Channel Length	(m)	1034	5120
Slope	(%)	0.60%	0.26%
Flow Type	-	Short grass	Short grass
Average Velocity	(m/s)	0.165	0.108
Time of Concentration	(secs)	6,275	47,262
Time of Concentration	(hrs)	1.7	13.1
Time to Peak	(hrs)	1.2	8.8

Results

The pre- and post-development models were run for the full range of design storms (2- to 100-Year Events) to accurately establish the existing and proposed floodplain extents within the study area. **Figures C2 and C3** illustrate the flood extents for both existing and proposed conditions during the 24-hour SCS-type storms (the critical design storm). **Figure C4** provide a comparison between the 100-year floodplain under both existing and proposed conditions. From this figure, it is shown that the 100-year floodplain extents along the ditch are reduced under post-development conditions. This demonstrates that the proposed stormwater management solution is effective and that the proposed development will not worsen existing flood conditions along the ditch. **Attachment C** also includes pre- and post-development long- and cross-section plots, along with summary tables.

This analysis also revealed that flows in the roadside ditch overtop the banks during 5- to 10-year events (depending on the design storm). This is expected, as the typical level of service for driveway crossings is generally in this range. It's crucial to note that existing driveway crossings, not the channel itself, are constricting flows and causing them to overtop the bank. Upsizing several culverts along this stretch of roadside ditch would significantly reduce the floodplain in this area.

Along Eagleson Road, approximately halfway between the railway and the Ottawa Street intersection, flows will overtop the bank and spill west to the culvert under the railway. For a conservative design, the hydraulic modelling does not account for this spill, assuming all flows proceed to the next downstream cross-section. It's also important to emphasize that for all events (up to and including the 100-year event), water levels in the roadside ditch do not reach an elevation that would impede traffic on either Eagleson Road or Ottawa Street, as the flood extents do not touch the shoulder of the road. Furthermore, the maximum 100-year floodplain extents do not affect any nearby buildings, meaning the current and proposed flood extents pose no danger to existing structures.

CONCLUSION

In summary, JFSA Canada Inc.'s hydrologic and hydraulic modelling confirms that the proposed Stratford Foxrun development's stormwater management plan effectively mitigates downstream impacts. The on-site localized depressions, with **75 mm** orifice outlets, will manage post-development runoff, ensuring peak flows for major storm events (up to 100-year) remain at or below pre-development levels.

The HEC-RAS analysis further demonstrates that the proposed SWM measures will lead to a reduction in the 100-year floodplain extent along the receiving roadside ditch. While existing culverts contribute to minor, more frequent overtopping, the development itself will not worsen these conditions or cause flooding that impedes traffic or endangers structures during major events. The findings indicate that the proposed SWM strategy for this site is sufficient and will not adversely impact downstream lands.

Yours truly,
JFSA Canada Inc.



Jonathon Burnett, B.Eng, P.Eng
Water Resource Engineer



cc: J.F. Sabourin, M.Eng, P.Eng
Director of Water Resources Projects

Figures

Figure 1: Site Boundary and Existing Watercourse

Tables

Table 1: Site Release Rates / Required Storage Volume / Ponding Depth

Table 2: Peak Flows at Key Locations

Attachments

- Attachment A: Pre-Development Hydrology
- Attachment B: Post Development Hydrology
- Attachment C: Hydraulic Analysis



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Attachment A

Pre-Development Hydrology

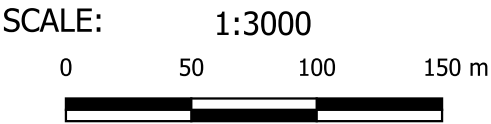


Legend

- Jock River Tributary
- Pre-dev. Subcatchments

Google Hybrid

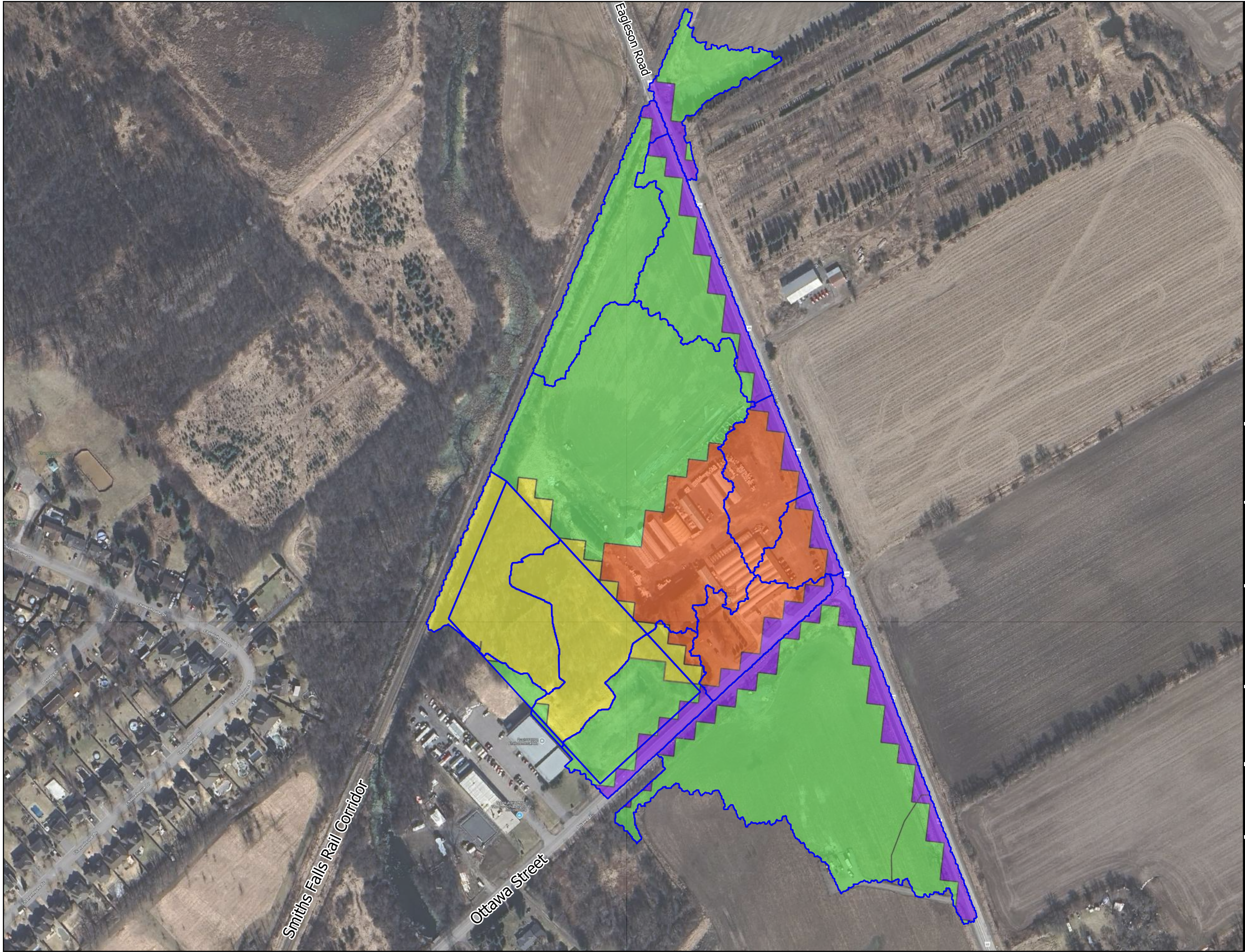
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- Subcatchment Area (ha)



5923 Ottawa St – Richmond

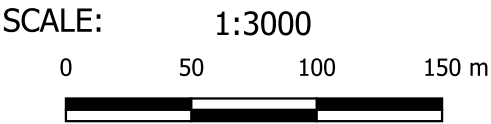
Figure A1: Existing Drainage Areas

PROJECT	P2710(e01)
DRAWN	MM
DATE	04-06-2025



Legend

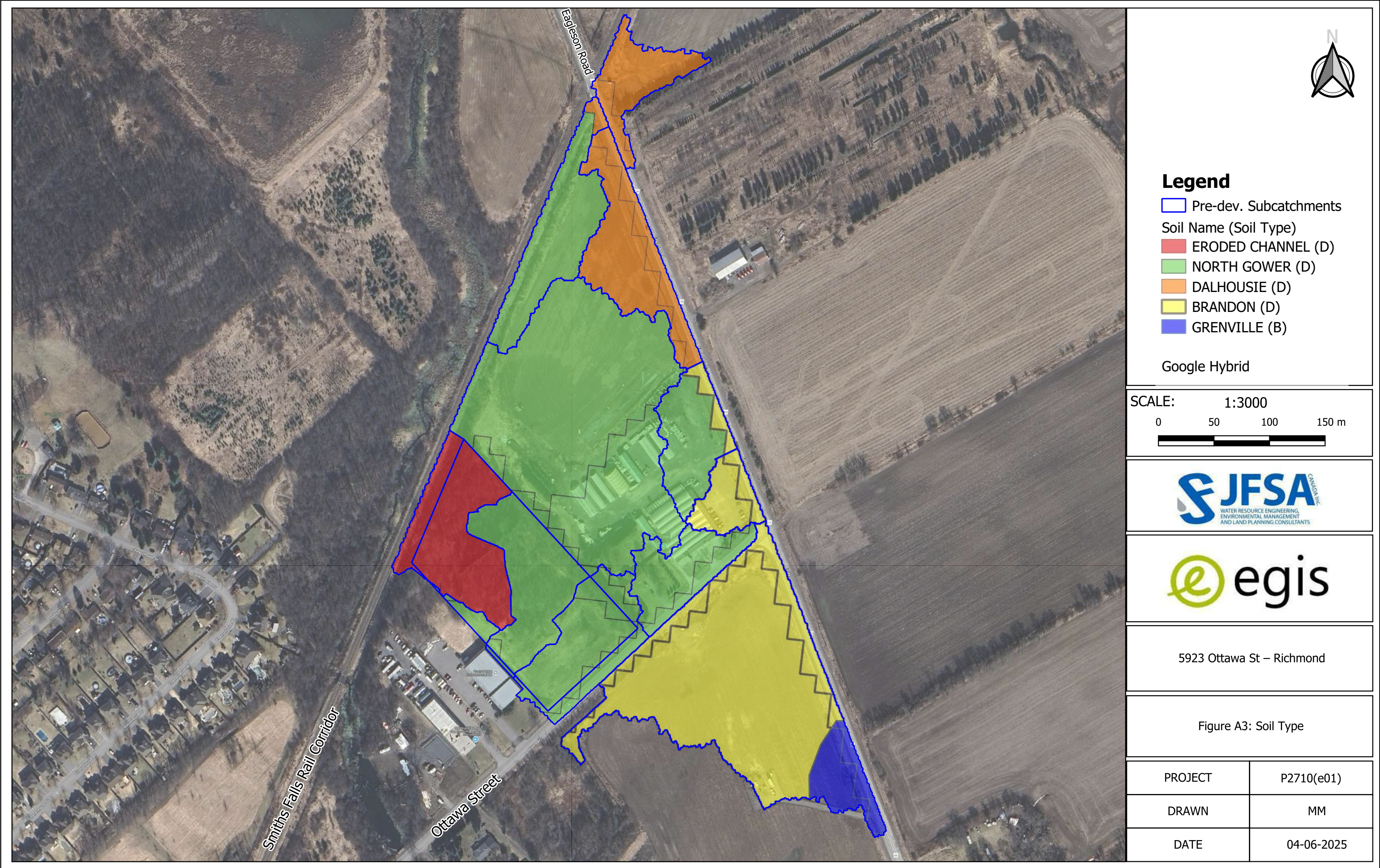
-  Pre-dev. Subcatchments
-  CN
-  Built Up Area - Pervious
-  Transportation
-  Forest
-  Tilled
- Google Hybrid



5923 Ottawa St – Richmond

Figure A2: Land Use Data

PROJECT	P2710(e01)
DRAWN	MM
DATE	04-06-2025



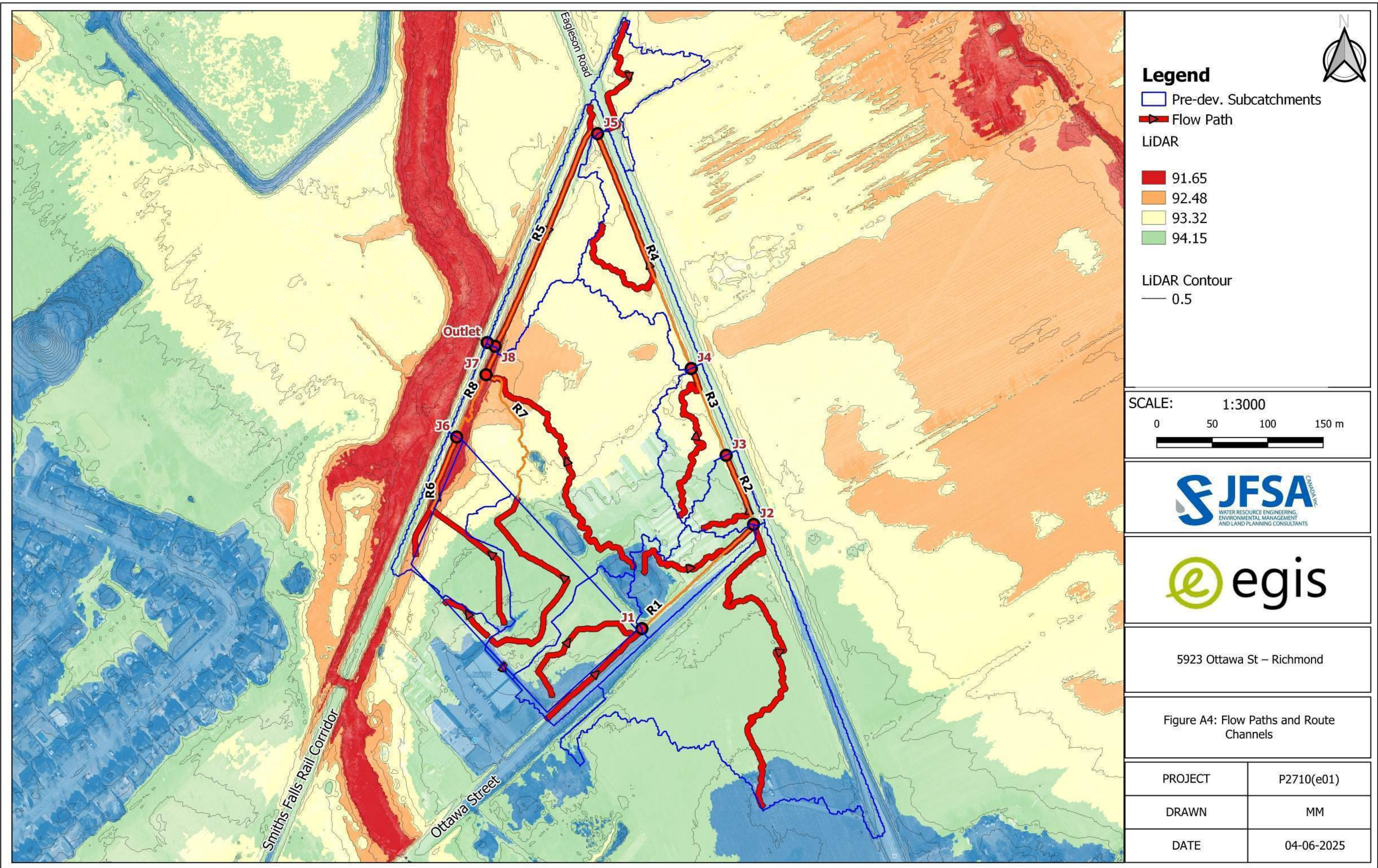


Table A1: Calculation of SCS Curve Number (CN) and Modified Curve Number (CN*)

EXT1 (3.212 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.107	Transportation	GRENVILLE	Fair	B	98	3.3%	3.3
0.229	Tilled	GRENVILLE	Fair	B	69	7.1%	4.9
0.403	Transportation	BRANDON	Fair	D	98	12.5%	12.3
2.472	Tilled	BRANDON	Fair	D	84	77.0%	64.6
						CN	85
						CN*	80

EXT2 (0.285 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.04	Built Up Area - Pervious	NORTH GOWER	Fair	D	80	14.0%	11.2
0.051	Tilled	NORTH GOWER	Fair	D	84	17.9%	15.0
0.067	Forest	NORTH GOWER	Fair	D	79	23.5%	18.6
0.127	Transportation	NORTH GOWER	Fair	D	98	44.6%	43.7
						CN	89
						CN*	85

EXT3 (0.56 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0	Forest	NORTH GOWER	Fair	D	79	0.0%	0.0
0.17	Transportation	NORTH GOWER	Fair	D	98	30.4%	29.8
0.39	Built Up Area - Pervious	NORTH GOWER	Fair	D	80	69.6%	55.7
						CN	85
						CN*	80

EXT4 (0.309 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.074	Transportation	BRANDON	Fair	D	98	23.9%	23.5
0.235	Built Up Area - Pervious	BRANDON	Fair	D	80	76.1%	60.8
						CN	84
						CN*	79

EXT5 (0.594 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.084	Transportation	BRANDON	Fair	D	98	14.1%	13.9
0.51	Built Up Area - Pervious	NORTH GOWER	Fair	D	80	85.9%	68.7
						CN	83
						CN*	76

Table A1: Calculation of SCS Curve Number (CN) and Modified Curve Number (CN*)

Pre10 (0.803 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.803	Forest	ERODED CHANNEL	Fair	D	79	100.0%	79.0
						CN	79
						CN*	71

Pre11 (0.069 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.004	Forest	NORTH GOWER	Fair	D	79	5.8%	4.6
0.065	Tilled	NORTH GOWER	Fair	D	84	94.2%	79.1
						CN	84
						CN*	78

Pre2 (0.565 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0.017	Transportation	NORTH GOWER	Fair	D	98	3.0%	2.9
0.066	Forest	NORTH GOWER	Fair	D	79	11.7%	9.2
0.483	Tilled	NORTH GOWER	Fair	D	84	85.5%	71.8
						CN	84
						CN*	78

Pre9 (0.83 ha)							
Area (ha)	Land Type	Soil Name	Soil Condition	Soil Group	CN	% of Catchment	Weighted CN
0	Built Up Area - Pervious	NORTH GOWER	Fair	D	80	0.0%	0.0
0.014	Tilled	NORTH GOWER	Fair	D	84	1.7%	1.4
0.815	Forest	NORTH GOWER	Fair	D	79	98.2%	77.6
						CN	79
						CN*	71

Table A2: Time to Peak Calculations

Parameter	Units	EXT1	EXT2	EXT3	EXT4	EXT5	EXT6	EXT7	EXT8	EXT9	EXT9a	EXT10	Pre10	Pre11	Pre2	Pre9
Area	ha	3.211	0.285	0.560	0.309	0.594	0.864	0.471	0.834	3.571	0.011	0.203	0.803	0.069	0.566	0.829
CN	-	80	85	80	79	76	85	83	79	76	78	71	71	78	78	71
Ptotal to calc C from CN, use 2 yr 24 hr Chicago storm	P(mm)	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
	la(mm)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
	RV(mm)	17.7	21.4	18.0	16.9	15.4	21.2	19.7	17.1	15.6	16.7	12.9	12.9	16.4	16.7	12.9
C (From Chicago storm)	-	0.363	0.439	0.370	0.348	0.317	0.436	0.404	0.351	0.319	0.342	0.265	0.265	0.337	0.342	0.265
Length of Channel	m	404	121	161	116	215	279	140	263	344	5	121	135	54	145	236
	ft	1327	397	527	381	705	916	459	862	1128	15	398	443	176	475	776
Elevation of Head Water	m	94.63	94.17	94.91	93.95	94.08	92.97	93.24	93.52	94.94	94.74	91.69	94.14	94.09	94.34	94.11
	ft	310	309	311	308	309	305	306	307	311	311	301	309	309	310	309
Elevation of Outlet	m	92.98	93.57	93.00	92.69	92.44	91.96	92.11	90.43	90.46	94.55	91.11	91.71	93.58	93.80	93.20
	ft	305	307	305	304	303	302	302	297	297	310	299	301	307	308	306
Average Slope	%	0.41%	0.50%	1.18%	1.08%	0.76%	0.36%	0.81%	1.17%	1.30%	4.28%	0.49%	1.80%	0.96%	0.38%	0.38%
Flow Type (Uplands)	-	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Kirpich																
Time of Concentration	mins	16	6	5	4	8	13	6	8	9	0	6	4	2	8	11
Time to Peak	min	11	4	4	3	5	9	4	5	6	0	4	3	2	5	7
Time to Peak	Hours	0.18	0.07	0.06	0.05	0.09	0.14	0.06	0.09	0.10	0.00	0.07	0.04	0.03	0.09	0.12
FAA (From Chicago storm)																
Time of Concentration	mins	65	30	29	26	41	51	29	37	43	3	38	26	18	41	58
Time to Peak	mins	43	20	19	17	27	34	19	25	29	2	25	17	12	27	38
Time to Peak	Hours	0.72	0.33	0.32	0.29	0.45	0.56	0.32	0.42	0.48	0.04	0.42	0.29	0.21	0.46	0.64
Barnsby Williams																
Time of Concentration	mins	25	9	9	7	14	20	9	15	17	0	9	7	4	11	17
Time to Peak	mins	17	6	6	5	9	13	6	10	11	0	6	5	3	7	11
Time to Peak	Hours	0.28	0.10	0.11	0.08	0.15	0.22	0.10	0.17	0.18	0.00	0.10	0.08	0.05	0.12	0.19
SCS																
Time of Concentration	mins	63	18	17	15	31	42	17	27	34	1	28	16	9	30	54
Time to Peak	mins	42	12	12	10	21	28	12	18	23	0	19	11	6	20	36
Time to Peak	Hours	0.70	0.20	0.19	0.16	0.34	0.47	0.19	0.30	0.38	0.01	0.31	0.18	0.10	0.34	0.61
Uplands																
Time of Concentration	mins	69	19	16	12	27	50	17	26	33	0	19	11	6	26	41
Time to Peak	mins	46	12	11	8	18	34	11	18	22	0	13	7	4	17	28
Time to Peak	Hours	0.76	0.21	0.18	0.13	0.30	0.56	0.19	0.29	0.36	0.00	0.21	0.12	0.07	0.28	0.46
Selected Method: FAA (From Chicago storm)																
Time to Peak	min	43	20	19	17	27	34	19	25	29	2	25	17	12	27	38
Time to Peak	Hours	0.72	0.33	0.32	0.29	0.45	0.56	0.32	0.42	0.48	0.04	0.42	0.29	0.21	0.46	0.64
Velocity	m/s	0.16	0.10	0.14	0.11	0.13	0.14	0.12	0.18	0.20	0.04	0.08	0.13	0.07	0.09	0.10

```

20      Metric units / ID numbers OFF
*#*****
***
*#  SWMHYMO  / INPUT DATA FILE
*#*****
***
*#  Project Name   : [5923 Ottawa St]
*#  Project Number: [P2710(e01)]
*#  Date          : [2025 FEB 05]
*#  Modeller      : [MM]
*#  Company       : JFSA Canada Inc.
*#  License #     : 2549237
*#*****
***
*# Model developed to simulate runoff from subcatchments under pre development conditions
*#*****
***
*% 25 mm Storm based on 2-Year, 3-Hour Chicago Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[002]
           ["002YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
READ STORM  STORM_FILENAME=["STORM.001"]
*%-----|-----
*#*****
***
*# EXT1
*#*****
***
CALIB NASHYD      NHYD=["EXT1"], DT[1] (min), AREA=[3.211] (ha),
                  DWF=[0] (cms), CN=[80],
                  IA=[4.67] (mm), N=[3], TP[0.72] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT2
*#*****
***
CALIB NASHYD      NHYD=["EXT2"], DT[1] (min), AREA=[0.285] (ha),
                  DWF=[0] (cms), CN=[85],
                  IA=[4.67] (mm), N=[3], TP[0.33] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT3
*#*****
***
CALIB NASHYD      NHYD=["EXT3"], DT[1] (min), AREA=[0.560] (ha),
                  DWF=[0] (cms), CN=[80],
                  IA=[4.67] (mm), N=[3], TP[0.32] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT4
*#*****
***
CALIB NASHYD      NHYD=["EXT4"], DT[1] (min), AREA=[0.309] (ha),
                  DWF=[0] (cms), CN=[79],
                  IA=[4.67] (mm), N=[3], TP[0.29] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT5
*#*****
***
CALIB NASHYD      NHYD=["EXT5"], DT[1] (min), AREA=[0.594] (ha),
                  DWF=[0] (cms), CN=[76],
                  IA=[4.67] (mm), N=[3], TP[0.45] (hrs),
                  RAINFALL[ , , -1]
*#*****

```

```
***
*# EXT6
*#*****
***
CALIB NASHYD      NHYD=["EXT6"], DT[1] (min), AREA=[0.864] (ha),
                  DWF=[0] (cms), CN=[85],
                  IA=[4.67] (mm), N=[3], TP[0.56] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT7
*#*****
***
CALIB NASHYD      NHYD=["EXT7"], DT[1] (min), AREA=[0.471] (ha),
                  DWF=[0] (cms), CN=[83],
                  IA=[4.67] (mm), N=[3], TP[0.32] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT8
*#*****
***
CALIB NASHYD      NHYD=["EXT8"], DT[1] (min), AREA=[0.834] (ha),
                  DWF=[0] (cms), CN=[79],
                  IA=[4.67] (mm), N=[3], TP[0.42] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT9
*#*****
***
CALIB NASHYD      NHYD=["EXT9"], DT[1] (min), AREA=[3.571] (ha),
                  DWF=[0] (cms), CN=[76],
                  IA=[4.67] (mm), N=[3], TP[0.48] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT9a
*#*****
***
CALIB NASHYD      NHYD=["EXT9a"], DT[1] (min), AREA=[0.011] (ha),
                  DWF=[0] (cms), CN=[78],
                  IA=[4.67] (mm), N=[3], TP[0.04] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT10
*#*****
***
CALIB NASHYD      NHYD=["EXT10"], DT[1] (min), AREA=[0.203] (ha),
                  DWF=[0] (cms), CN=[71],
                  IA=[4.67] (mm), N=[3], TP[0.42] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# Pre2
*#*****
***
CALIB NASHYD      NHYD=["Pre2"], DT[1] (min), AREA=[0.566] (ha),
                  DWF=[0] (cms), CN=[78],
                  IA=[4.67] (mm), N=[3], TP[0.46] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# Pre9
*#*****
***
CALIB NASHYD      NHYD=["Pre9"], DT[1] (min), AREA=[0.829] (ha),
                  DWF=[0] (cms), CN=[71],
```

```

#####
***
*# Pre10
*#####
***

```

```

#####
***
*# Prel1
*#####
***

```

```
#####
***
ADD HYD          NHYDsum=["J1"], NHYDs to add=["EXT2"+"Pre2"]
*%-----|-----
* NOTE: Cross-section number 849.0434 is taken from HEC-RAS Model
```

```

*%-----|-----
ADD HYD      NHYDsum=["J2"], NHYDs to add=["R1"+"EXT3"+"EXT1"]
*%-----|-----
* NOTE: Cross-section number 737.5813 is taken from HEC-RAS Model
ROUTE CHANNEL, NHYDout=["R2"], NHYDin=["J2"], RDT=[11 (min),

```

[illegible]

```

[17.97, 93.65]
[19, 93.83]
[19.51, 93.89]
[21.06, 93.94]
[22.6, 93.95]

*%-----|-----
ADD HYD      NHYDsum=["J3"], NHYDs to add=["R2"+"EXT4"]
*%-----|-----
* NOTE: Cross-section number 675.4097 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R3"], NHYDin=["J3"], RDT=[1] (min),
CHLGTH=[92.08] (m), CHSLOPE=[0.274] (%), FPSLOPE=[0.274] (%),
SECNUM=[675.4097], NSEG=[3],
( SEGROUGH, SEGDIST (m))=[0.08,31.64 -0.035,42.44 0.08,48.87] NSEG times
( DISTANCE (m), ELEVATION (m))=[30.59, 93.12]
[31.64, 93.13]
[34.35, 93.08]
[35.18, 93.03]
[37.78, 92.72]
[38.25, 92.64]
[38.7, 92.61]
[39.74, 92.76]
[42.44, 93.41]
[42.89, 93.49]
[43.97, 93.57]
[44.92, 93.6]
[46.07, 93.67]
[48.87, 93.74]

*%-----|-----
ADD HYD      NHYDsum=["J4"], NHYDs to add=["R3"+"EXT5"]
*%-----|-----
* NOTE: Cross-section number 518.7506 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R4"], NHYDin=["J4"], RDT=[1] (min),
CHLGTH=[251.495] (m), CHSLOPE=[0.19] (%), FPSLOPE=[0.19] (%),
SECNUM=[518.7506], NSEG=[3],
( SEGROUGH, SEGDIST (m))=[0.08,51.48 -0.035,59.39 0.08,66.4] NSEG times
( DISTANCE (m), ELEVATION (m))=[0, 92.92]
[4.26, 92.9]
[48.31, 92.76]
[51.48, 92.76]
[53.64, 92.7]
[55.33, 92.29]
[55.44, 92.29]
[56.43, 92.37]
[56.97, 92.43]
[59.39, 93.27]
[59.74, 93.37]
[60.8, 93.52]
[63.31, 93.71]
[66.4, 93.76]

*%-----|-----
ADD HYD      NHYDsum=["J5"], NHYDs to add=["R4"+"EXT6"+"EXT7"]
*%-----|-----
* NOTE: Cross-section number 275.0857 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R5"], NHYDin=["J5"], RDT=[1] (min),
CHLGTH=[237.343] (m), CHSLOPE=[0.644] (%), FPSLOPE=[0.644] (%),
SECNUM=[275.0857], NSEG=[3],
( SEGROUGH, SEGDIST (m))=[0.08,40.82 -0.035,53.64 0.08,57.93] NSEG times
( DISTANCE (m), ELEVATION (m))=[36.16, 92.63]
[40.82, 92.97]
[41.39, 92.9]
[44.69, 91.72]
[45.24, 91.58]
[46.33, 91.43]
[47.41, 91.64]
[47.87, 91.75]
[49.59, 92.2]
[50.99, 92.36]
[51.44, 92.48]
[53.18, 92.98]

```

[53.64, 93.15]
[55.92, 93.66]
[57.93, 93.68]

*%-----|-----

* NOTE: Cross-section number 124 is taken from HEC-RAS Model

ROUTE CHANNEL NHYDout=["R6"], NHYDin=["Pre10"], RDT=[1] (min),
CHLGTH=[77.414] (m), CHSLOPE=[0.776] (%), FPSLOPE=[0.776] (%),
SECNUM=[124], NSEG=[3],
(SEGROUGH, SEGDIST (m))=[0.08,8.34 -0.035,31.31 0.08,84.97] NSEG times
(DISTANCE (m), ELEVATION (m))=[1.78, 93.73]
[4.51, 93.54]
[5.06, 93.31]
[7.25, 92.98]
[7.79, 92.77]
[8.34, 92.49]
[9.43, 91.93]
[9.68, 91.81]
[10.53, 91.27]
[12.64, 90.92]
[14.44, 90.9]
[16.54, 91.06]
[17.64, 91.06]
[30.22, 92.3]
[31.31, 92.45]
[33.5, 92.41]
[55.37, 93.11]
[57.01, 93.2]
[84.97, 93.43]

*%-----|-----

* NOTE: Cross-section number 74 is taken from HEC-RAS Model

ROUTE CHANNEL NHYDout=["R7"], NHYDin=["Pre9"], RDT=[1] (min),
CHLGTH=[159.151] (m), CHSLOPE=[1.576] (%), FPSLOPE=[1.576] (%),
SECNUM=[74], NSEG=[3],
(SEGROUGH, SEGDIST (m))=[0.08,4.67 -0.035,81.24 0.08,82.88] NSEG times
(DISTANCE (m), ELEVATION (m))=[1.94, 93.64]
[4.67, 93.32]
[5.77, 93.15]
[7.41, 92.69]
[7.95, 92.37]
[9.36, 91.71]
[10.12, 91.22]
[10.49, 91.06]
[12.64, 90.89]
[16.16, 90.92]
[18.83, 91.66]
[19.59, 92.02]
[21.62, 92.39]
[24.87, 92.48]
[30.37, 92.55]
[34.37, 92.65]
[77.41, 92.82]
[80.6, 93.25]
[81.24, 93.48]
[82.88, 93.79]

*%-----|-----

ADD HYD NHYDsum=["J6"], NHYDs to add=["R6"+"EXT10"+"Pre11"+"EXT9a"]

*%-----|-----

* NOTE: Cross-section number 49 is taken from HEC-RAS Model

ROUTE CHANNEL NHYDout=["R8"], NHYDin=["J6"], RDT=[1] (min),
CHLGTH=[78.801] (m), CHSLOPE=[0.522] (%), FPSLOPE=[0.522] (%),
SECNUM=[49], NSEG=[3],
(SEGROUGH, SEGDIST (m))=[0.08,8.71 -0.035,20.59 0.08,116.73] NSEG times
(DISTANCE (m), ELEVATION (m))=[0, 93.36]
[1.93, 93.63]
[4.61, 93.26]
[6.23, 93.1]
[8.19, 92.26]
[8.71, 91.84]
[9.86, 91.47]

```

[10.53, 91.04]
[13.84, 91]
[14.5, 91.11]
[16.97, 91.27]
[20.59, 91.76]
[23.3, 91.64]
[30.34, 91.85]
[35.29, 91.92]
[116.73, 92.96]

*%-----|-----
ADD HYD      NHYDsum=["J7"], NHYDs to add=["R8"+"R7"]
*%-----|-----
* NOTE: Cross-section number 7 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R9"], NHYDin=["J7"], RDT=[1] (min),
CHLGTH=[29.445] (m), CHSLOPE=[0.887] (%), FPSLOPE=[0.887] (%),
SECNUM=[7], NSEG=[3],
( SEGROUGH, SEGDIST (m))=[0.08,1.5 -0.035,22.44 0.08,100.08] NSEG times
( DISTANCE (m), ELEVATION (m))=[0, 93.4]
[1.5, 93.63]
[3.13, 93.62]
[4.76, 93.28]
[5.3, 93.25]
[6.52, 93.08]
[6.96, 92.95]
[10.57, 90.95]
[13.59, 90.67]
[15.83, 90.72]
[16.42, 90.85]
[18.66, 91.76]
[20.82, 91.86]
[22.44, 91.92]
[27.84, 91.98]
[30.15, 91.96]
[100.08, 92.61]

*%-----|-----
ADD HYD      NHYDsum=["J8"], NHYDs to add=["EXT9"+"R9"+"EXT8"+"R5"]
*%-----|-----
* Note: The pipe needs to be adjusted based on the Culvert-under-railway information
ROUTE PIPE   PTYPE=[1]circ, NHYDout=["Outlet"], RNUMBER=[1.0],
PDIAM=[525] (mm), PLNGTH=[8.407] (m), PROUGH=[0.013], PSLOPE=[0.0001] (m/m),
NHYDin=["J8"], RDT=[1] (min)

*%-----|-----
*#####
*# STORMS
*#####
*% 2-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[002]
*           ["002YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 5-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[005]
*           ["005YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 10-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[010]
*           ["010YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 25-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[025]
*           ["025YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 50-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[050]
*           ["050YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 100-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[099]
*           ["100YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----

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*% 2-Year, 24-Hour SCS Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[102]
           ["SC24002x.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 5-Year, 24-Hour SCS Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[105]
           ["SC24005x.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 10-Year, 24-Hour SCS Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[110]
           ["SC24010x.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 25-Year, 24-Hour SCS Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[125]
           ["SC24025x.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 50-Year, 24-Hour SCS Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[150]
           ["SC24050x.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 100-Year, 24-Hour SCS Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[199]
           ["SC24100x.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% July 1st, 1979 Storm - Ottawa International Airport
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[1979]
           ["19790701.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% August 4th, 1988 Storm - Ottawa International Airport
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[1988]
           ["19880804.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% August 8th, 1996 Storm - Ottawa International Airport
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[1996]
           ["19960808.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 100-Year, 3-Hour Chicago Storm + 20%
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[9999]
           ["100YC3H+.STM"] <--storm filename, one per line for NSTORM time
*%-----|-----
FINISH

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00361 CALIB NASHVD 1.0 01:EXT9 3.57 .083 No_date 1:136 12.13 .285 .000
00362 [CN= 78.0: N= 3.00: Tpe = .28]
00363 *****
00364 # EXT9a
00365 *****
00366 R0005:C00012-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00367 CALIB NASHVD 1.0 01:EXT9a .01 .001 No_date 1:00 13.07 .307 .000
00368 [CN= 78.0: N= 3.00: Tpe = .04]
00369 *****
00370 # EXT10
00371 *****
00372 R0005:C00010-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00373 CALIB NASHVD 1.0 01:EXT10 .20 .004 No_date 1:132 10.11 .238 .000
00374 [CN= 71.0: N= 3.00: Tpe = .42]
00375 *****
00376 # Pre2
00377 *****
00378 R0005:C00014-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00379 CALIB NASHVD 1.0 01:Pre2 .57 .015 No_date 1:135 13.08 .308 .000
00380 [CN= 78.0: N= 3.00: Tpe = .04]
00381 *****
00382 # Pre3
00383 *****
00384 R0010:C00015-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00385 CALIB NASHVD 1.0 01:Pre3 .83 .013 No_date 1:150 10.11 .238 .000
00386 [CN= 71.0: N= 3.00: Tpe = .64]
00387 *****
00388 # Pre10
00389 *****
00390 R0005:C00016-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00391 CALIB NASHVD 1.0 01:Pre10 .80 .021 No_date 1:121 10.11 .238 .000
00392 [CN= 78.0: N= 3.00: Tpe = .04]
00393 *****
00394 # Pre11
00395 *****
00396 R0005:C00017-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00397 CALIB NASHVD 1.0 01:Pre11 .07 .018 No_date 1:118 13.07 .308 .000
00398 [CN= 78.0: N= 3.00: Tpe = .21]
00399 *****
00400 R0005:C00018-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00401 ADD HYD + 1.0 02:EXT2 .28 .012 No_date 1:123 17.32 n/a .000
00402 SUM= + 1.0 02:EXT3 3.21 .046 No_date 1:135 14.13 n/a .000
00403 SUM= 1.0 01:21 .85 .026 No_date 1:129 14.50 n/a .000
00404 R0005:C00019-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00405 ROUTE CHANNEL -> 1.0 02:12 4.62 .102 No_date 1:143 14.20 n/a .000
00406 [RDT= 1.00] out-> 1.0 01:R1 .85 .025 No_date 1:136 14.50 n/a .000
00407 [L/S/n= 143 / .397 / .035]
00408 (Vmax=.291;Dmax=.109)
00409 R0005:C00020-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00410 ADD HYD + 1.0 02:R1 4.62 .025 No_date 1:145 14.20 n/a .000
00411 SUM= + 1.0 02:EXT3 .56 .020 No_date 1:123 14.13 n/a .000
00412 SUM= 1.0 02:EXT4 3.21 .046 No_date 1:135 14.13 n/a .000
00413 SUM= 1.0 01:21 4.62 .102 No_date 1:143 14.20 n/a .000
00414 R0005:C00021-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00415 ROUTE CHANNEL -> 1.0 02:12 4.62 .102 No_date 1:143 14.20 n/a .000
00416 [RDT= 1.00] out-> 1.0 01:R2 4.62 .101 No_date 1:145 14.20 n/a .000
00417 [L/S/n= 72 / .423 / .035]
00418 (Vmax=.412;Dmax=.195)
00419 R0005:C00022-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00420 ADD HYD + 1.0 02:EXT2 .31 .011 No_date 1:121 13.59 n/a .000
00421 SUM= + 1.0 02:EXT4 .31 .011 No_date 1:121 13.59 n/a .000
00422 SUM= 1.0 01:21 3.21 .046 No_date 1:143 14.20 n/a .000
00423 R0005:C00023-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00424 ROUTE CHANNEL -> 1.0 02:13 4.93 .109 No_date 1:143 14.16 n/a .000
00425 [RDT= 1.00] out-> 1.0 01:R3 4.93 .108 No_date 1:147 14.16 n/a .000
00426 [L/S/n= 92 / .274 / .035]
00427 (Vmax=.423;Dmax=.221)
00428 R0005:C00024-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00429 ADD HYD + 1.0 02:R1 4.93 .108 No_date 1:147 14.16 n/a .000
00430 SUM= + 1.0 02:EXT3 .56 .026 No_date 1:123 13.59 n/a .000
00431 SUM= 1.0 01:21 4.93 .109 No_date 1:143 14.16 n/a .000
00432 R0005:C00025-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00433 ROUTE CHANNEL -> 1.0 02:14 5.52 .121 No_date 1:145 13.94 n/a .000
00434 [RDT= 1.00] out-> 1.0 01:R4 5.52 .112 No_date 1:158 13.94 n/a .000
00435 [L/S/n= 251 / .190 / .035]
00436 (Vmax=.323;Dmax=.221)
00437 R0005:C00026-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00438 ADD HYD + 1.0 02:R4 5.52 .112 No_date 1:158 13.94 n/a .000
00439 SUM= + 1.0 02:EXT3 .86 .026 No_date 1:142 17.32 n/a .000
00440 SUM= 1.0 02:EXT7 6.87 .019 No_date 1:123 13.94 n/a .000
00441 SUM= 1.0 01:25 6.86 .144 No_date 1:153 14.51 n/a .000
00442 R0005:C00027-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00443 ROUTE CHANNEL -> 1.0 02:15 6.86 .147 No_date 1:153 14.51 n/a .000
00444 [RDT= 1.00] out-> 1.0 01:R5 6.86 .144 No_date 2:00 14.51 n/a .000
00445 [L/S/n= 237 / .644 / .035]
00446 (Vmax=.519;Dmax=.210)
00447 R0005:C00028-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00448 ROUTE CHANNEL -> 1.0 02:Pre10 .80 .021 No_date 1:121 10.11 n/a .000
00449 [RDT= 1.00] out-> 1.0 01:R6 .80 .021 No_date 1:124 10.11 n/a .000
00450 [L/S/n= 71 / .776 / .035]
00451 (Vmax=.492;Dmax=.015)
00452 R0005:C00029-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00453 ROUTE CHANNEL -> 1.0 02:Pre9 .83 .013 No_date 1:150 11.1 n/a .000
00454 [RDT= 1.00] out-> 1.0 01:R7 .83 .013 No_date 1:154 10.11 n/a .000
00455 [L/S/n= 159 / .157 / .035]
00456 (Vmax=.797;Dmax=.004)
00457 R0005:C00030-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00458 ADD HYD + 1.0 02:R6 .80 .021 No_date 1:124 10.26 n/a .000
00459 SUM= + 1.0 02:EXT10 .20 .004 No_date 1:132 10.11 n/a .000
00460 SUM= 1.0 02:Pre11 .07 .003 No_date 1:131 13.59 n/a .000
00461 SUM= 1.0 02:EXT9a .01 .001 No_date 1:00 13.07 n/a .000
00462 SUM= 1.0 01:26 1.09 .028 No_date 1:124 10.44 n/a .000
00463 R0005:C00031-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00464 ROUTE CHANNEL -> 1.0 02:16 1.09 .028 No_date 1:124 10.44 n/a .000
00465 [RDT= 1.00] out-> 1.0 01:R8 1.09 .027 No_date 1:127 10.44 n/a .000
00466 [L/S/n= 79 / .522 / .035]
00467 (Vmax=.423;Dmax=.028)
00468 R0005:C00032-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00469 ADD HYD + 1.0 02:R8 1.09 .027 No_date 1:127 10.44 n/a .000
00470 SUM= + 1.0 02:EXT7 .83 .013 No_date 1:154 10.14 n/a .000
00471 SUM= 1.0 01:27 1.92 .037 No_date 1:132 10.31 n/a .000
00472 R0005:C00033-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00473 ROUTE CHANNEL -> 1.0 02:17 1.92 .037 No_date 1:132 10.31 n/a .000
00474 [RDT= 1.00] out-> 1.0 01:R9 1.92 .037 No_date 1:133 10.31 n/a .000
00475 [L/S/n= 29 / .887 / .035]
00476 (Vmax=.543;Dmax=.025)
00477 R0005:C00034-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00478 ADD HYD + 1.0 02:EXT9 3.57 .083 No_date 1:136 12.13 .285 .000
00479 SUM= + 1.0 02:R9 1.92 .037 No_date 1:133 10.32 n/a .000
00480 SUM= 1.0 02:EXT10 .20 .004 No_date 1:131 13.59 n/a .000
00481 SUM= 1.0 02:R5 6.86 .144 No_date 2:00 14.51 n/a .000
00482 SUM= 1.0 01:26 1.09 .028 No_date 1:124 10.44 n/a .000
00483 R0005:C00035-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00484 ROUTE PIPE -> 1.0 02:18 13.18 .266 No_date 1:149 13.20 n/a .000
00485 [RDT= 1.00] out-> 1.0 01:Outlet 13.18 .266 No_date 1:150 13.20 n/a .000
00486 [L/S/n= 8 / .010 / .013]
00487 (Vmax=.197;Dmax=.001)
00488 (Dine=.53;Dused=1.104)
00489 *****
00490 # STORM
00491 *****
00492 *****
00493 *****
00494 *****
00495 *****
00496 *****
00497 *****
00498 *****
00499 *****
00500 RUN/COMMAND#
00501 R0010:C0001-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00502 START [TZRO=.00 hrs on 0]
00503 [METOUT= 2 (1=imperial, 2=metric output)]
00504 [METFORM= 1]
00505 [INFORM= 0010]
00506 *****
00507 *****
00508 # SMOYRNO / INPUT DATA FILE
00509 *****
00510 # Project Name : [5923 Octawa SC]
00511 # Project Number : [92710(e01)]
00512 # Date : [2025 FEB 05]
00513 # Modeller : [JFSA]
00514 # Company : [NEMA Canada Inc.]
00515 # License : 2549237
00516 *****
00517 # Model developed to simulate discharges under pipe
00518 *****
00519 R0010:C0002-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00520 READ STORM
00521 *****
00522 Filename = STORM.001
00523 Comment = CHICAGO STORM 10 Year, 3 Hours
00524 [SDT=10.00;SDRM= 3.00;PTOT= 49.50]
00525 *****
00526 # EXT1
00527 *****
00528 CALIB NASHVD 1.0 01:EXT1 3.21 .088 No_date 1:154 18.55 .375 .000
00529 [CN= 80.0: N= 3.00: Tpe = .72]
00530 *****
00531 # EXT2
00532 *****
00533 R0010:C00004-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00534 CALIB NASHVD 1.0 01:EXT2 .28 .016 No_date 1:123 22.42 .453 .000
00535 [CN= 85.0: N= 3.00: Tpe = .04]
00536 *****
00537 # EXT3
00538 *****
00539 R0010:C00003-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00540 CALIB NASHVD 1.0 01:EXT3 .56 .027 No_date 1:123 18.55 .375 .000
00541 [CN= 80.0: N= 3.00: Tpe = .32]
00542 *****
00543 # EXT4
00544 *****
00545 R0010:C00006-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00546 CALIB NASHVD 1.0 01:EXT4 .31 .015 No_date 1:120 17.89 .361 .000
00547 [CN= 83.0: N= 3.00: Tpe = .48]
00548 *****
00549 # EXT5
00550 *****
00551 R0010:C00007-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00552 CALIB NASHVD 1.0 01:EXT5 .59 .019 No_date 1:133 16.07 .325 .000
00553 [CN= 76.0: N= 3.00: Tpe = .45]
00554 *****
00555 # EXT6
00556 *****
00557 R0010:C00008-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00558 CALIB NASHVD 1.0 01:EXT6 .86 .035 No_date 1:141 22.42 .453 .000
00559 [CN= 85.0: N= 3.00: Tpe = .56]
00560 *****
00561 # EXT7
00562 *****
00563 R0010:C00009-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00564 CALIB NASHVD 1.0 01:EXT7 .47 .025 No_date 1:122 20.75 .419 .000
00565 [CN= 83.0: N= 3.00: Tpe = .62]
00566 *****
00567 # EXT8
00568 *****
00569 R0010:C00010-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00570 CALIB NASHVD 1.0 01:EXT8 .83 .032 No_date 1:131 17.89 .361 .000
00571 [CN= 79.0: N= 3.00: Tpe = .42]
00572 *****
00573 # EXT9
00574 *****
00575 R0010:C00011-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00576 CALIB NASHVD 1.0 01:EXT9 3.57 .111 No_date 1:136 16.08 .325 .000
00577 [CN= 76.0: N= 3.00: Tpe = .45]
00578 *****
00579 # EXT9a
00580 *****
00581 R0010:C00012-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00582 CALIB NASHVD 1.0 01:EXT9a .01 .001 No_date 1:00 17.25 .348 .000
00583 [CN= 78.0: N= 3.00: Tpe = .04]
00584 *****
00585 # EXT10
00586 *****
00587 R0010:C00013-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00588 CALIB NASHVD 1.0 01:EXT10 .20 .006 No_date 1:131 13.53 .273 .000
00589 [CN= 71.0: N= 3.00: Tpe = .42]
00590 *****
00591 # Pre2
00592 *****
00593 R0010:C00014-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00594 CALIB NASHVD 1.0 01:Pre2 .57 .020 No_date 1:134 17.26 .349 .000
00595 [CN= 78.0: N= 3.00: Tpe = .45]
00596 *****
00597 # Pre3
00598 *****
00599 R0010:C00015-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00600 CALIB NASHVD 1.0 01:Pre3 .83 .018 No_date 1:149 13.53 .273 .000
00601 [CN= 71.0: N= 3.00: Tpe = .64]
00602 *****
00603 # Pre10
00604 *****
00605 R0010:C00016-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00606 CALIB NASHVD 1.0 01:Pre10 .80 .029 No_date 1:121 13.53 .273 .000
00607 [CN= 78.0: N= 3.00: Tpe = .21]
00608 *****
00609 # Pre11
00610 *****
00611 R0010:C00017-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00612 CALIB NASHVD 1.0 01:Pre11 .07 .004 No_date 1:114 17.25 .348 .000
00613 [CN= 78.0: N= 3.00: Tpe = .21]
00614 *****
00615 R0010:C00018-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00616 ADD HYD + 1.0 02:EXT2 .28 .016 No_date 1:123 22.42 n/a .000
00617 SUM= + 1.0 02:EXT3 .57 .020 No_date 1:134 17.26 n/a .000
00618 SUM= 1.0 01:21 .85 .035 No_date 1:128 18.99 n/a .000
00619 R0010:C00019-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00620 ROUTE CHANNEL -> 1.0 02:12 4.62 .102 No_date 1:143 14.20 n/a .000
00621 [RDT= 1.00] out-> 1.0 01:R1 .85 .033 No_date 1:135 18.99 n/a .000
00622 [L/S/n= 143 / .394 / .035]
00623 (Vmax=.311;Dmax=.122)
00624 R0010:C00020-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00625 ADD HYD + 1.0 02:R1 4.62 .102 No_date 1:145 14.20 n/a .000
00626 SUM= + 1.0 02:EXT3 .56 .027 No_date 1:123 18.55 n/a .000
00627 SUM= 1.0 02:EXT4 3.21 .046 No_date 1:143 14.20 n/a .000
00628 SUM= 1.0 01:22 4.62 .136 No_date 1:142 18.63 n/a .000
00629 R0010:C00021-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00630 ROUTE CHANNEL -> 1.0 02:12 4.62 .136 No_date 1:142 18.63 n/a .000
00631 [RDT= 1.00] out-> 1.0 01:R2 4.62 .135 No_date 1:145 18.63 n/a .000
00632 [L/S/n= 72 / .423 / .035]
00633 (Vmax=.444;Dmax=.219)
00634 R0010:C00022-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00635 ADD HYD + 1.0 02:R2 4.62 .135 No_date 1:145 18.63 n/a .000
00636 SUM= + 1.0 02:EXT4 .31 .015 No_date 1:120 17.89 n/a .000
00637 SUM= 1.0 02:EXT3 3.21 .046 No_date 1:143 14.20 n/a .000
00638 R0010:C00023-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00639 ROUTE CHANNEL -> 1.0 02:13 4.93 .145 No_date 1:142 18.59 n/a .000
00640 [RDT= 1.00] out-> 1.0 01:R3 4.93 .144 No_date 1:146 18.59 n/a .000
00641 [L/S/n= 92 / .274 / .035]
00642 (Vmax=.364;Dmax=.001)
00643 R0010:C00024-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00644 ADD HYD + 1.0 02:R3 4.93 .144 No_date 1:146 18.59 n/a .000
00645 SUM= + 1.0 02:EXT5 .59 .028 No_date 1:133 13.57 n/a .000
00646 SUM= 1.0 01:24 5.52 .162 No_date 1:144 18.32 n/a .000
00647 R0010:C00025-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00648 ROUTE CHANNEL -> 1.0 02:14 5.52 .162 No_date 1:144 18.32 n/a .000
00649 [RDT= 1.00] out-> 1.0 01:R4 5.52 .151 No_date 1:156 18.32 n/a .000
00650 [L/S/n= 251 / .190 / .035]
00651 (Vmax=.573;Dmax=.238)
00652 R0010:C00026-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00653 ADD HYD + 1.0 02:R4 5.52 .151 No_date 1:156 18.32 n/a .000
00654 SUM= + 1.0 02:EXT6 .86 .035 No_date 1:141 22.42 n/a .000
00655 SUM= 1.0 02:EXT7 .47 .025 No_date 1:122 20.75 n/a .000
00656 SUM= 1.0 01:25 6.86 .197 No_date 1:151 19.00 n/a .000
00657 R0010:C00027-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00658 ROUTE CHANNEL -> 1.0 02:15 6.86 .194 No_date 1:151 19.00 n/a .000
00659 [RDT= 1.00] out-> 1.0 01:R5 6.86 .194 No_date 1:156 19.00 n/a .000
00660 [L/S/n= 237 / .644 / .035]
00661 (Vmax=.573;Dmax=.238)
00662 R0010:C00028-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00663 ROUTE CHANNEL -> 1.0 02:Pre10 .80 .029 No_date 1:121 13.53 n/a .000
00664 [RDT= 1.00] out-> 1.0 01:R6 .80 .029 No_date 1:124 13.53 n/a .000
00665 [L/S/n= 71 / .776 / .035]
00666 (Vmax=.492;Dmax=.021)
00667 R0010:C00029-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00668 ROUTE CHANNEL -> 1.0 02:Pre9 .83 .018 No_date 1:149 13.53 n/a .000
00669 [RDT= 1.00] out-> 1.0 01:R7 .83 .018 No_date 1:153 13.53 n/a .000
00670 [L/S/n= 159 / .157 / .035]
00671 (Vmax=.797;Dmax=.005)
00672 R0010:C00030-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00673 ADD HYD + 1.0 02:R6 .80 .029 No_date 1:124 13.70 n/a .000
00674 SUM= + 1.0 02:EXT10 .20 .006 No_date 1:131 13.53 n/a .000
00675 SUM= 1.0 02:Pre11 .07 .004 No_date 1:114 17.25 n/a .000
00676 SUM= 1.0 02:EXT9a .01 .001 No_date 1:00 17.25 n/a .000
00677 SUM= 1.0 01:26 1.09 .038 No_date 1:123 13.93 n/a .000
00678 R0010:C00031-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00679 ROUTE CHANNEL -> 1.0 02:16 1.09 .038 No_date 1:123 13.93 n/a .000
00680 [RDT= 1.00] out-> 1.0 01:R8 1.09 .037 No_date 1:127 13.93 n/a .000
00681 [L/S/n= 79 / .522 / .035]
00682 (Vmax=.423;Dmax=.028)
00683 R0010:C00032-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00684 ADD HYD + 1.0 02:R8 1.09 .037 No_date 1:127 13.93 n/a .000
00685 SUM= + 1.0 02:EXT7 .83 .018 No_date 1:153 13.55 n/a .000
00686 SUM= 1.0 01:27 1.92 .050 No_date 1:131 13.77 n/a .000
00687 R0010:C00033-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00688 ROUTE CHANNEL -> 1.0 02:17 1.92 .050 No_date 1:131 13.77 n/a .000
00689 [RDT= 1.00] out-> 1.0 01:R9 1.92 .050 No_date 1:132 13.77 n/a .000
00690 [L/S/n= 29 / .887 / .035]
00691 (Vmax=.543;Dmax=.034)
00692 R0010:C00034-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00693 ADD HYD + 1.0 02:EXT9 3.57 .111 No_date 1:136 16.08 n/a .000
00694 SUM= + 1.0 02:R9 1.92 .050 No_date 1:132 16.78 n/a .000
00695 SUM= 1.0 02:EXT8 .83 .032 No_date 1:131 17.89 n/a .000
00696 SUM= 1.0 02:R5 6.86 .194 No_date 1:156 19.00 n/a .000
00697 SUM= 1.0 01:26 1.09 .038 No_date 1:123 13.93 n/a .000
00698 R0010:C00035-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00699 ROUTE PIPE -> 1.0 02:18 13.18 .263 No_date 1:147 17.38 n/a .000
00700 [RDT= 1.00] out-> 1.0 01:Outlet 13.18 .263 No_date 1:147 17.38 n/a .000
00701 [L/S/n= 8 / .010 / .013]
00702 (Vmax=.194;Dmax=.001)
00703 (Dine=.53;Dused=1.17)
00704 *****
00705 # STORM
00706 *****
00707 *****
00708 *****
00709 *****
00710 *****
00711 *****
00712 *****
00713 *****
00714 *****
00715 RUN/COMMAND#
00716 R0020:C00001-----DtnIn-ID:INVD-----AREAhA-QFEARcMs-TpeaDate_hh:mm-----RvMm-R.C-----DWfCms
00717 START [TZRO=.00 hrs on 0]
00718 [METOUT= 2 (1=imperial, 2=metric output)]
00719 [METFORM= 1]
00720 *****
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01081) (Vmax=.406:Dmax=.366)
01082) R0050:C00010-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01083) ADD HYD + 1.0 02:084 5.52 .248 No.Date 1:52 28.91 n/a .000
01084) + 1.0 02:EXT6 .86 .055 No.Date 1:40 34.45 n/a .000
01085) + 1.0 02:EXT7 .47 .041 No.Date 1:21 32.24 n/a .000
01086) SUM= 1.0 01:25 6.86 .323 No.Date 1:47 29.83 n/a .000
01087) R0050:C0002-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01088) ROUTE CHANNEL -> 1.0 02:25 6.86 .323 No.Date 1:47 29.83 n/a .000
01089) [RD7=1.00] out<- 1.0 01:85 6.86 .318 No.Date 1:52 29.83 n/a .000
01090) [L/S/m= 237././647./035]
01091) (Vmax=.658:Dmax=.288)
01092) R0050:C0003-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01093) ROUTE CHANNEL -> 1.0 02:Pre10 .80 .049 No.Date 1:20 22.07 n/a .000
01094) [RD7=1.00] out<- 1.0 01:86 .80 .048 No.Date 1:23 22.07 n/a .000
01095) [L/S/m= 71././776./035]
01096) (Vmax=.492:Dmax=.036)
01097) R0050:C0004-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01098) ROUTE CHANNEL -> 1.0 02:Pre9 .83 .029 No.Date 1:48 22.07 n/a .000
01099) [RD7=1.00] out<- 1.0 01:87 .83 .029 No.Date 1:51 22.07 n/a .000
01100) [L/S/m= 159././1576./035]
01101) (Vmax=.797:Dmax=.009)
01102) R0050:C0005-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01103) ADD HYD + 1.0 02:86 .80 .048 No.Date 1:23 22.28 n/a .000
01104) + 1.0 02:EXT10 .20 .010 No.Date 1:30 22.06 n/a .000
01105) + 1.0 02:Pre11 .07 .007 No.Date 1:13 27.44 n/a .000
01106) + 1.0 02:EXT9a .01 .002 No.Date 1:00 27.43 n/a .000
01107) SUM= 1.0 01:26 1.09 .063 No.Date 1:22 22.62 n/a .000
01108) R0050:C0001-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01109) ROUTE CHANNEL -> 1.0 02:26 1.09 .063 No.Date 1:22 22.62 n/a .000
01110) [RD7=1.00] out<- 1.0 01:88 1.09 .062 No.Date 1:26 22.62 n/a .000
01111) [L/S/m= 79././522./035]
01112) (Vmax=.543:Dmax=.057)
01113) R0050:C0002-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01114) ADD HYD + 1.0 02:88 1.09 .062 No.Date 1:26 22.62 n/a .000
01115) + 1.0 02:EXT7 .83 .029 No.Date 1:51 22.49 n/a .000
01116) SUM= 1.0 01:27 1.92 .084 No.Date 1:31 22.39 n/a .000
01117) R0050:C0003-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01118) ROUTE CHANNEL -> 1.0 02:27 1.92 .084 No.Date 1:31 22.39 n/a .000
01119) [RD7=1.00] out<- 1.0 01:89 1.92 .084 No.Date 1:31 22.39 n/a .000
01120) [L/S/m= 28././887./035]
01121) (Vmax=.543:Dmax=.057)
01122) R0050:C0004-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01123) ADD HYD + 1.0 02:EXT9 3.57 .183 No.Date 1:35 25.77 n/a .000
01124) + 1.0 02:89 1.92 .084 No.Date 1:31 22.40 n/a .000
01125) + 1.0 02:EXT8 .83 .052 No.Date 1:30 22.49 n/a .000
01126) + 1.0 02:EXT9a .01 .002 No.Date 1:52 29.83 n/a .000
01127) SUM= 1.0 01:26 1.09 .063 No.Date 1:22 22.62 n/a .000
01128) R0050:C0005-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01129) ROUTE PIPE -> 1.0 02:28 13.18 .605 No.Date 1:43 27.56 n/a .000
01130) [RD7=1.00] out<- 1.0 01:88 13.18 .604 No.Date 1:45 27.56 n/a .000
01131) [L/S/m= 8././010./013]
01132) (Vmax=.423:Dmax=.146)
01133) (Dine=.53:Dused=1.41)
01134) #####
01135) # STORM
01136) #####
01137) # END OF RUN : 96
01138)
01139)
01140)
01141)
01142)
01143)
01144)
01145) RUN:COMMAND#
01146) R0099:C0001-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01147) START
01148) [TZERO=.00 hrs on 0]
01149) [METOUT= 2 (1=imperial, 2=metric output)]
01150) [METUNIT= 1]
01151) [INRUN=.0099]
01152)
01153) # SWHYMO / INPUT DATA FILE
01154)
01155) # Project Name : [5923 Ottawa St]
01156) # Project Number: [9271(e01)]
01157) # Date : [2025 FEB 05]
01158) # Modeller : [NM]
01159) # Company : JFSA Canada Inc.
01160) # License # : 2548237
01161) #####
01162) # Model developed to simulate runoff from subcatchment
01163) #####
01164) R0099:C0002-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01165) HEAD STORM
01166) Filename = STORM.001
01167) Comment = CHICAGO STORM 100 Year, 3 Hours
01168) [SDT=10.00:SDRM= 3.00:PTOT= 71.66]
01169)
01170) # EXT1
01171)
01172) R0099:C0003-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01173) CALIB NASHVD 1.0 01:EXT1 3.21 .167 No.Date 1:52 34.39 .480 .000
01174) [CN= 80.0: N= 3.00: Tpe=.72]
01175)
01176) # EXT2
01177)
01178) R0099:C0004-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01179) CALIB NASHVD 1.0 01:EXT2 .28 .031 No.Date 1:22 40.14 .560 .000
01180) [CN= 85.0: N= 3.00: Tpe=.48]
01181) #####
01182) # EXT3
01183)
01184) R0099:C0005-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01185) CALIB NASHVD 1.0 01:EXT3 .86 .064 No.Date 1:21 34.39 .480 .000
01186) [CN= 80.0: N= 3.00: Tpe=.32]
01187) #####
01188) # EXT4
01189)
01190) R0099:C0006-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01191) CALIB NASHVD 1.0 01:EXT4 .31 .029 No.Date 1:19 33.37 .466 .000
01192) [CN= 76.0: N= 3.00: Tpe=.48]
01193) #####
01194) # EXT5
01195)
01196) R0099:C0007-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01197) CALIB NASHVD 1.0 01:EXT5 .59 .038 No.Date 1:32 30.49 .425 .000
01198) [CN= 76.0: N= 3.00: Tpe=.45]
01199) #####
01200) # EXT6
01201)
01202) R0099:C0008-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01203) CALIB NASHVD 1.0 01:EXT6 .86 .064 No.Date 1:39 40.14 .560 .000
01204) [CN= 80.0: N= 3.00: Tpe=.56]
01205) #####
01206) # EXT7
01207)
01208) R0099:C0009-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01209) CALIB NASHVD 1.0 01:EXT7 .47 .048 No.Date 1:21 37.71 .526 .000
01210) [CN= 85.0: N= 3.00: Tpe=.32]
01211) #####
01212) # EXT8
01213)
01214) R0099:C0010-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01215) CALIB NASHVD 1.0 01:EXT8 .83 .052 No.Date 1:29 33.37 .466 .000
01216) [CN= 79.0: N= 3.00: Tpe=.42]
01217) #####
01218) # EXT9
01219)
01220) R0099:C0011-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01221) CALIB NASHVD 1.0 01:EXT9 3.57 .218 No.Date 1:34 30.49 .425 .000
01222) [CN= 76.0: N= 3.00: Tpe=.48]
01223) #####
01224) # EXT9a
01225)
01226) R0099:C0012-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01227) CALIB NASHVD 1.0 01:EXT9a .01 .003 No.Date 1:00 32.37 .452 .000
01228) [CN= 78.0: N= 3.00: Tpe=.04]
01229) #####
01230) # EXT10
01231)
01232) R0099:C0013-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01233) CALIB NASHVD 1.0 01:EXT10 .20 .012 No.Date 1:30 26.28 .367 .000
01234) [CN= 71.0: N= 3.00: Tpe=.42]
01235) #####
01236) # Pre2
01237)
01238) R0099:C0014-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01239) CALIB NASHVD 1.0 01:Pre2 .57 .038 No.Date 1:32 32.37 .452 .000
01240) [CN= 76.0: N= 3.00: Tpe=.48]
01241) #####
01242) # Pre1
01243)
01244) R0099:C0015-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01245) CALIB NASHVD 1.0 01:Pre1 .83 .035 No.Date 1:47 26.29 .367 .000
01246) [CN= 71.0: N= 3.00: Tpe=.64]
01247) #####
01248) # Pre10
01249)
01250) R0099:C0016-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01251) CALIB NASHVD 1.0 01:Pre10 .80 .058 No.Date 1:20 26.29 .367 .000
01252) [CN= 71.0: N= 3.00: Tpe=.48]
01253) #####
01254) # Pre11
01255)
01256) R0099:C0017-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01257) CALIB NASHVD 1.0 01:Pre11 .07 .008 No.Date 1:13 32.37 .452 .000
01258) [CN= 78.0: N= 3.00: Tpe=.21]
01259) #####
01260) R0099:C0018-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01261)
01262) ADD HYD + 1.0 02:EXT2 .28 .031 No.Date 1:22 40.14 n/a .000
01263) + 1.0 02:EXT3 .56 .052 No.Date 1:21 34.39 n/a .000
01264) R0099:C0019-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01265) ROUTE CHANNEL -> 1.0 02:21 .85 .067 No.Date 1:27 34.97 n/a .000
01266) [RD7=1.00] out<- 1.0 01:81 .85 .064 No.Date 1:33 34.97 n/a .000
01267) [L/S/m= 143././394./035]
01268) (Vmax=.375:Dmax=.162)
01269) R0099:C0020-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01270) ADD HYD + 1.0 02:82 4.42 .258 No.Date 1:42 34.50 n/a .000
01271) + 1.0 02:EXT3 .56 .052 No.Date 1:21 34.39 n/a .000
01272) [RD7=1.00] out<- 1.0 02:81 4.93 .277 No.Date 1:39 34.43 n/a .000
01273) SUM= 1.0 01:12 4.62 .258 No.Date 1:40 34.50 n/a .000
01274) R0099:C0021-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01275) ROUTE CHANNEL -> 1.0 02:22 4.62 .258 No.Date 1:40 34.50 n/a .000
01276) [RD7=1.00] out<- 1.0 01:82 4.62 .258 No.Date 1:42 34.50 n/a .000
01277) [L/S/m= 143././394./035]
01278) (Vmax=.526:Dmax=.284)
01279) R0099:C0022-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01280) ADD HYD + 1.0 02:82 4.42 .258 No.Date 1:42 34.50 n/a .000
01281) + 1.0 02:EXT4 .31 .029 No.Date 1:19 33.37 n/a .000
01282) SUM= 1.0 01:23 4.93 .277 No.Date 1:39 34.43 n/a .000
01283) R0099:C0023-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01284) ROUTE CHANNEL -> 1.0 02:23 4.93 .277 No.Date 1:39 34.43 n/a .000
01285) [L/S/m= 237././647./035]
01286) [RD7=1.00] out<- 1.0 01:83 4.93 .275 No.Date 1:42 34.43 n/a .000
01287) [L/S/m= 92././274./035]
01288) (Vmax=.431:Dmax=.293)
01289) R0099:C0024-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01290) ADD HYD + 1.0 02:83 4.93 .275 No.Date 1:42 34.43 n/a .000
01291) + 1.0 02:EXT7 .59 .038 No.Date 1:32 30.49 n/a .000
01292) SUM= 1.0 01:24 5.52 .311 No.Date 1:40 34.01 n/a .000
01293) R0099:C0025-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01294) ROUTE CHANNEL -> 1.0 02:24 5.52 .295 No.Date 1:51 34.01 n/a .000
01295) [RD7=1.00] out<- 1.0 01:84 5.52 .295 No.Date 1:51 34.01 n/a .000
01296) [L/S/m= 237././647./035]
01297) (Vmax=.425:Dmax=.333)
01298) R0099:C0026-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01299) ADD HYD + 1.0 02:84 5.52 .295 No.Date 1:51 34.01 n/a .000
01300) + 1.0 02:EXT6 .86 .064 No.Date 1:39 40.14 n/a .000
01301) + 1.0 02:EXT7 .47 .048 No.Date 1:21 37.71 n/a .000
01302) SUM= 1.0 01:25 6.86 .384 No.Date 1:46 35.03 n/a .000
01303) R0099:C0027-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01304) ROUTE CHANNEL -> 1.0 02:25 6.86 .384 No.Date 1:46 35.03 n/a .000
01305) [L/S/m= 237././647./035]
01306) [RD7=1.00] out<- 1.0 01:85 6.86 .380 No.Date 1:51 35.03 n/a .000
01307) (Vmax=.699:Dmax=.310)
01308) R0099:C0028-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01309) ROUTE PIPE -> 1.0 02:Pre10 .80 .058 No.Date 1:20 26.29 n/a .000
01310) [RD7=1.00] out<- 1.0 01:86 .80 .058 No.Date 1:23 26.29 n/a .000
01311) [L/S/m= 71././776./035]
01312) (Vmax=.492:Dmax=.043)
01313) R0099:C0029-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01314) ROUTE CHANNEL -> 1.0 02:Pre9 .83 .035 No.Date 1:47 26.29 n/a .000
01315) [RD7=1.00] out<- 1.0 01:87 .83 .035 No.Date 1:51 26.29 n/a .000
01316) [L/S/m= 159././1576./035]
01317) (Vmax=.797:Dmax=.011)
01318) R0099:C0030-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01319) ADD HYD + 1.0 02:86 .80 .058 No.Date 1:23 26.52 n/a .000
01320) + 1.0 02:EXT10 .20 .012 No.Date 1:30 26.28 n/a .000
01321) + 1.0 02:Pre11 .07 .008 No.Date 1:13 27.44 n/a .000
01322) + 1.0 02:EXT9a .01 .003 No.Date 1:00 27.43 n/a .000
01323) SUM= 1.0 01:26 1.09 .063 No.Date 1:22 26.52 n/a .000
01324) R0099:C0031-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01325) ROUTE CHANNEL -> 1.0 02:26 1.09 .076 No.Date 1:22 26.91 n/a .000
01326) [RD7=1.00] out<- 1.0 01:88 1.09 .076 No.Date 1:26 26.91 n/a .000
01327) [L/S/m= 79././522./035]
01328) (Vmax=.423:Dmax=.053)
01329) R0099:C0032-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01330) ADD HYD + 1.0 02:88 1.09 .076 No.Date 1:26 26.91 n/a .000
01331) + 1.0 02:EXT7 .83 .035 No.Date 1:51 26.32 n/a .000
01332) SUM= 1.0 01:27 1.92 .101 No.Date 1:30 26.65 n/a .000
01333) R0099:C0033-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01334) ROUTE CHANNEL -> 1.0 02:27 1.92 .101 No.Date 1:30 26.65 n/a .000
01335) [RD7=1.00] out<- 1.0 01:89 1.92 .101 No.Date 1:31 26.65 n/a .000
01336) [L/S/m= 28././887./035]
01337) (Vmax=.543:Dmax=.068)
01338) R0099:C0034-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01339) ADD HYD + 1.0 02:EXT9 3.57 .218 No.Date 1:34 30.49 n/a .000
01340) + 1.0 02:89 1.92 .101 No.Date 1:31 26.66 n/a .000
01341) + 1.0 02:Pre11 .07 .008 No.Date 1:13 27.44 n/a .000
01342) + 1.0 02:EXT9a .01 .003 No.Date 1:51 35.03 n/a .000
01343) SUM= 1.0 01:26 1.09 .063 No.Date 1:22 26.52 n/a .000
01344) R0099:C0035-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01345) ROUTE PIPE -> 1.0 02:28 13.18 .725 No.Date 1:42 32.48 n/a .000
01346) [RD7=1.00] out<- 1.0 01:88 13.18 .725 No.Date 1:43 32.48 n/a .000
01347) [L/S/m= 8././010./013]
01348) (Vmax=.499:Dmax=.143)
01349) (Dine=.53:Dused=1.51)
01350) #####
01351) # STORM
01352) #####
01353) # END OF RUN : 101
01354) #####
01355)
01356)
01357)
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01359)
01360) RUN:COMMAND#
01361) R102:C0001-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01362) START
01363) [TZERO=.00 hrs on 0]
01364) [METOUT= 2 (1=imperial, 2=metric output)]
01365) [METUNIT= 1]
01366) [INRUN=.0102]
01367)
01368) # SWHYMO / INPUT DATA FILE
01369)
01370) # Project Name : [5923 Ottawa St]
01371) # Project Number: [9271(e01)]
01372) # Date : [2025 FEB 05]
01373) # Modeller : [NM]
01374) # Company : JFSA Canada Inc.
01375) # License # : 2548237
01376) #####
01377) # Model developed to simulate runoff from subcatchment
01378) #####
01379) R102:C0002-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01380) HEAD STORM
01381) Filename = STORM.001
01382) Comment = CHICAGO STORM 2 Years Sec Type 2 Storm 24 Hours step 10 min, City of Ottawa
01383) [SDT=10.00:SDRM= 24.00:PTOT= 48.46]
01384)
01385) # EXT1
01386)
01387) R102:C0003-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01388) CALIB NASHVD 1.0 01:EXT1 3.21 .058 No.Date 12:42 17.87 .369 .000
01389) [CN= 80.0: N= 3.00: Tpe=.72]
01390) #####
01391) # EXT2
01392)
01393) R102:C0004-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01394) CALIB NASHVD 1.0 01:EXT2 .28 .011 No.Date 12:14 21.63 .446 .000
01395) [CN= 85.0: N= 3.00: Tpe=.33]
01396) #####
01397) # EXT3
01398)
01399) R102:C0005-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01400) CALIB NASHVD 1.0 01:EXT3 .56 .018 No.Date 12:13 17.87 .369 .000
01401) [CN= 80.0: N= 3.00: Tpe=.32]
01402) #####
01403) # EXT4
01404)
01405) R102:C0006-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01406) CALIB NASHVD 1.0 01:EXT4 .31 .010 No.Date 12:12 17.22 .355 .000
01407) [CN= 79.0: N= 3.00: Tpe=.29]
01408) #####
01409) # EXT5
01410)
01411) R102:C0007-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01412) CALIB NASHVD 1.0 01:EXT5 .59 .013 No.Date 12:22 15.46 .319 .000
01413) [CN= 76.0: N= 3.00: Tpe=.45]
01414) #####
01415) # EXT6
01416)
01417) R102:C0008-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01418) CALIB NASHVD 1.0 01:EXT6 .86 .023 No.Date 12:30 21.64 .446 .000
01419) [CN= 85.0: N= 3.00: Tpe=.56]
01420) #####
01421) # EXT7
01422)
01423) R102:C0009-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01424) CALIB NASHVD 1.0 01:EXT7 .47 .017 No.Date 12:13 20.01 .413 .000
01425) [CN= 83.0: N= 3.00: Tpe=.33]
01426) #####
01427) # EXT8
01428)
01429) R102:C0010-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01430) CALIB NASHVD 1.0 01:EXT8 .80 .021 No.Date 12:20 17.22 .355 .000
01431) [CN= 79.0: N= 3.00: Tpe=.42]
01432) #####
01433) # EXT9
01434)
01435) R102:C0011-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
01436) CALIB NASHVD 1.0 01:EXT9 3.57 .074 No.Date 12:25 15.46 .319 .000
01437) [CN= 82.0: N= 3.00: Tpe=.48]
01438) #####
01439) # EXT9a
01440)
01441) R102:C0012-----DtnIn-ID:INVD-----AREAhA-QFEARcms-TpeakDate_hh:mm-----Rvm-R-C-----DWfCms
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[illegible]

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02520 R1979R00013--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02521 CALIB NASHD 1.0 01:Fr02 20 .016_NoDate 12:19 50.61 474 .000
02522 [CN= 71.0; M= 3.00; Tpe= .42]
02523 *****
02524 # Feo2
02525 *****
02526 # Feo2
02527 *****
02528 CALIB NASHD 1.0 01:Fr02 .57 .049_NoDate 12:22 59.97 562 .000
02529 [CN= 78.0; M= 3.00; Tpe= .44]
02530 *****
02531 # Feo9
02532 *****
02533 R1979R00015--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02534 CALIB NASHD 1.0 01:Fr09 .83 .047_NoDate 12:35 50.61 474 .000
02535 [CN= 71.0; M= 3.00; Tpe= .44]
02536 *****
02537 # Feo1
02538 *****
02539 *****
02540 R1979R00017--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02541 CALIB NASHD 1.0 01:Fr01 .07 .010_NoDate 12:06 59.96 562 .000
02542 [CN= 01.0; M= 3.00; Tpe= .44]
02543 *****
02544 # Feo1
02545 *****
02546 R1979R00017--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02547 CALIB NASHD 1.0 01:Fr01 .07 .010_NoDate 12:06 59.96 562 .000
02548 [CN= 01.0; M= 3.00; Tpe= .44]
02549 *****
02550 R1979R00018--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02551 ADD HYD + 1.0 02:EXT2 .28 .037_NoDate 12:13 70.91 n/a .000
02552 *****
02553 # 1.0 02:EXT2 .57 .049_NoDate 12:22 59.97 n/a .000
02554 [L/S/m= 251; W= 1.0]
02555 *****
02556 R1979R00019--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02557 ROUTE CHANNEL -> 1.0 02:EXT1 .85 .084_NoDate 12:17 62.63 n/a .000
02558 [RDT= 1.00] out<- 1.0 01:R1 .85 .081_NoDate 12:22 63.63 n/a .000
02559 [L/S/m= 143.7 /394/.035]
02560 (Wmax= 404; Wmin= 183)
02561 *****
02562 R1979R00020--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02563 ADD HYD + 1.0 02:EXT1 .56 .066_NoDate 12:13 62.92 n/a .000
02564 *****
02565 # 1.0 02:EXT1 3.21 .212_NoDate 12:39 62.92 n/a .000
02566 [L/S/m= 251; W= 1.0]
02567 *****
02568 R1979R00021--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02569 ROUTE CHANNEL -> 1.0 02:EXT1 4.62 .329_NoDate 12:27 63.63 n/a .000
02570 [RDT= 1.00] out<- 1.0 01:R2 4.62 .329_NoDate 12:29 63.05 n/a .000
02571 [L/S/m= 143.7 /394/.035]
02572 (Wmax= 443; Wmin= 183)
02573 *****
02574 R1979R00022--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02575 ADD HYD + 1.0 02:EXT4 4.62 .329_NoDate 12:13 62.92 n/a .000
02576 *****
02577 # 1.0 02:EXT4 .31 .038_NoDate 12:11 61.42 n/a .000
02578 [L/S/m= 251; W= 1.0]
02579 *****
02580 R1979R00023--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02581 ROUTE CHANNEL -> 1.0 01:EXT1 4.93 .354_NoDate 12:27 62.95 n/a .000
02582 [RDT= 1.00] out<- 1.0 01:R1 4.93 .352_NoDate 12:30 62.95 n/a .000
02583 [L/S/m= 143.7 /394/.035]
02584 (Wmax= 459; Wmin= 323)
02585 *****
02586 R1979R00024--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02587 ADD HYD + 1.0 02:EXT1 4.93 .352_NoDate 12:30 62.95 n/a .000
02588 *****
02589 # 1.0 02:EXT1 .86 .078_NoDate 12:28 70.92 n/a .000
02590 [L/S/m= 251; W= 1.0]
02591 *****
02592 R1979R00025--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02593 ROUTE CHANNEL -> 1.0 01:EXT1 4.7 .060_NoDate 12:12 62.40 n/a .000
02594 [RDT= 1.00] out<- 1.0 01:R1 4.7 .060_NoDate 12:12 62.40 n/a .000
02595 [L/S/m= 143.7 /394/.035]
02596 (Wmax= 459; Wmin= 323)
02597 *****
02598 R1979R00026--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02599 ADD HYD + 1.0 02:EXT1 4.93 .352_NoDate 12:30 62.95 n/a .000
02600 *****
02601 # 1.0 02:EXT1 .86 .078_NoDate 12:28 70.92 n/a .000
02602 [L/S/m= 251; W= 1.0]
02603 *****
02604 R1979R00027--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02605 ROUTE CHANNEL -> 1.0 01:EXT1 4.7 .060_NoDate 12:12 62.40 n/a .000
02606 [RDT= 1.00] out<- 1.0 01:R1 4.7 .060_NoDate 12:12 62.40 n/a .000
02607 [L/S/m= 143.7 /394/.035]
02608 (Wmax= 459; Wmin= 323)
02609 *****
02610 R1979R00028--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02611 ADD HYD + 1.0 02:EXT1 4.93 .352_NoDate 12:30 62.95 n/a .000
02612 *****
02613 # 1.0 02:EXT1 .86 .078_NoDate 12:28 70.92 n/a .000
02614 [L/S/m= 251; W= 1.0]
02615 *****
02616 R1979R00029--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02617 ROUTE CHANNEL -> 1.0 01:EXT1 4.7 .060_NoDate 12:12 62.40 n/a .000
02618 [RDT= 1.00] out<- 1.0 01:R1 4.7 .060_NoDate 12:12 62.40 n/a .000
02619 [L/S/m= 143.7 /394/.035]
02620 (Wmax= 459; Wmin= 323)
02621 *****
02622 R1979R00030--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02623 ADD HYD + 1.0 02:EXT1 4.93 .352_NoDate 12:30 62.95 n/a .000
02624 *****
02625 # 1.0 02:EXT1 .86 .078_NoDate 12:28 70.92 n/a .000
02626 [L/S/m= 251; W= 1.0]
02627 *****
02628 R1979R00031--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02629 ROUTE CHANNEL -> 1.0 01:EXT1 4.7 .060_NoDate 12:12 62.40 n/a .000
02630 [RDT= 1.00] out<- 1.0 01:R1 4.7 .060_NoDate 12:12 62.40 n/a .000
02631 [L/S/m= 143.7 /394/.035]
02632 (Wmax= 459; Wmin= 323)
02633 *****
02634 R1979R00032--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02635 ADD HYD + 1.0 02:EXT1 4.93 .352_NoDate 12:30 62.95 n/a .000
02636 *****
02637 # 1.0 02:EXT1 .86 .078_NoDate 12:28 70.92 n/a .000
02638 [L/S/m= 251; W= 1.0]
02639 *****
02640 R1979R00033--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02641 ROUTE CHANNEL -> 1.0 01:EXT1 4.7 .060_NoDate 12:12 62.40 n/a .000
02642 [RDT= 1.00] out<- 1.0 01:R1 4.7 .060_NoDate 12:12 62.40 n/a .000
02643 [L/S/m= 143.7 /394/.035]
02644 (Wmax= 459; Wmin= 323)
02645 *****
02646 R1979R00034--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02647 ADD HYD + 1.0 02:EXT1 4.93 .352_NoDate 12:30 62.95 n/a .000
02648 *****
02649 # 1.0 02:EXT1 .86 .078_NoDate 12:28 70.92 n/a .000
02650 [L/S/m= 251; W= 1.0]
02651 *****
02652 R1979R00035--Dtn-ID-INVD--AREHA-AFEARMS-TpeakDate_hh:mm--Rvwm-R-C--DWfms
02653 ROUTE CHANNEL -> 1.0 01:EXT1 4.7 .060_NoDate 12:12 62.40 n/a .000
02654 [RDT= 1.00] out
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02882) * Model developed to simulate runoff from subcatchments under pre development conditions
02883) ARH88:CO0002-----
02884) READ STORM
02885) File=NAME = STORM.001
02886) Comment = August 8th, 1998 Storm (50*) - Ottawa International Airport step 5
02887) [CN= 50.0; No 3.00; Tpr= .56]
02888) * EXT1
02889) ARH88:CO0003-----
02890) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02891) CALIB MASHD 1.0 01:EXT2 3.21 .197 No_date 2:10 41.34 .513 .000
02892) [CN= 80.0; No 3.00; Tpr= .72]
02893) * EXT2
02894) ARH88:CO0004-----
02895) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02896) CALIB MASHD 1.0 01:EXT2 .28 .035 No_date 2:11 47.74 .592 .000
02897) [CN= 85.0; No 3.00; Tpr= .33]
02898) * EXT3
02899) ARH88:CO0005-----
02900) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02901) CALIB MASHD 1.0 01:EXT3 .56 .061 No_date 2:11 41.34 .513 .000
02902) [CN= 80.0; No 3.00; Tpr= .22]
02903) * EXT4
02904) ARH88:CO0006-----
02905) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02906) CALIB MASHD 1.0 01:EXT3 .86 .074 No_date 2:21 47.74 .592 .000
02907) [CN= 80.0; No 3.00; Tpr= .22]
02908) * EXT5
02909) ARH88:CO0007-----
02910) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02911) CALIB MASHD 1.0 01:EXT5 .59 .046 No_date 2:17 36.92 .458 .000
02912) [CN= 76.0; No 3.00; Tpr= .45]
02913) * EXT6
02914) ARH88:CO0008-----
02915) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02916) CALIB MASHD 1.0 01:EXT2 .20 .014 No_date 2:16 32.08 .398 .000
02917) [CN= 85.0; No 3.00; Tpr= .56]
02918) * EXT7
02919) ARH88:CO0009-----
02920) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02921) CALIB MASHD 1.0 01:EXT7 .47 .055 No_date 2:11 45.05 .559 .000
02922) [CN= 83.0; No 3.00; Tpr= .32]
02923) * EXT8
02924) ARH88:CO0010-----
02925) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02926) CALIB MASHD 1.0 01:EXT8 .83 .074 No_date 2:15 40.18 .499 .000
02927) [CN= 79.0; No 3.00; Tpr= .42]
02928) * EXT9
02929) ARH88:CO0011-----
02930) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02931) CALIB MASHD 1.0 01:EXT9 .01 .003 No_date 2:00 39.05 .485 .000
02932) [CN= 78.0; No 3.00; Tpr= .54]
02933) * EXT10
02934) ARH88:CO0012-----
02935) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02936) CALIB MASHD 1.0 01:EXT9a .01 .003 No_date 2:00 39.05 .485 .000
02937) [CN= 78.0; No 3.00; Tpr= .54]
02938) * EXT11
02939) ARH88:CO0013-----
02940) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02941) CALIB MASHD 1.0 01:EXT11 .80 .072 No_date 2:10 32.08 .398 .000
02942) [CN= 76.0; No 3.00; Tpr= .48]
02943) * EXT12
02944) ARH88:CO0014-----
02945) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02946) CALIB MASHD 1.0 01:EXT12 .83 .043 No_date 2:12 32.08 .398 .000
02947) [CN= 71.0; No 3.00; Tpr= .64]
02948) * EXT13
02949) ARH88:CO0015-----
02950) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02951) CALIB MASHD 1.0 01:EXT13 .80 .072 No_date 2:10 32.08 .398 .000
02952) [CN= 71.0; No 3.00; Tpr= .64]
02953) * EXT14
02954) ARH88:CO0016-----
02955) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02956) CALIB MASHD 1.0 01:EXT14 .80 .072 No_date 2:10 32.08 .398 .000
02957) [CN= 71.0; No 3.00; Tpr= .64]
02958) * EXT15
02959) ARH88:CO0017-----
02960) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02961) CALIB MASHD 1.0 01:EXT15 .07 .009 No_date 2:06 39.05 .485 .000
02962) [CN= 80.0; No 3.00; Tpr= .22]
02963) * EXT16
02964) ARH88:CO0018-----
02965) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02966) CALIB MASHD 1.0 01:EXT16 .46 .032 No_date 2:11 41.34 .513 .000
02967) [CN= 80.0; No 3.00; Tpr= .22]
02968) * EXT17
02969) ARH88:CO0019-----
02970) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02971) CALIB MASHD 1.0 01:EXT17 .57 .030 No_date 2:16 41.34 .513 .000
02972) [CN= 78.0; No 3.00; Tpr= .46]
02973) * EXT18
02974) ARH88:CO0020-----
02975) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02976) CALIB MASHD 1.0 01:EXT18 .85 .052 No_date 2:16 41.34 .513 .000
02977) [CN= 78.0; No 3.00; Tpr= .46]
02978) * EXT19
02979) ARH88:CO0021-----
02980) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02981) CALIB MASHD 1.0 01:EXT19 .85 .052 No_date 2:16 41.34 .513 .000
02982) [CN= 78.0; No 3.00; Tpr= .46]
02983) * EXT20
02984) ARH88:CO0022-----
02985) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02986) CALIB MASHD 1.0 01:EXT20 .85 .052 No_date 2:16 41.34 .513 .000
02987) [CN= 78.0; No 3.00; Tpr= .46]
02988) * EXT21
02989) ARH88:CO0023-----
02990) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02991) CALIB MASHD 1.0 01:EXT21 .85 .052 No_date 2:16 41.34 .513 .000
02992) [CN= 78.0; No 3.00; Tpr= .46]
02993) * EXT22
02994) ARH88:CO0024-----
02995) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
02996) CALIB MASHD 1.0 01:EXT22 .85 .052 No_date 2:16 41.34 .513 .000
02997) [CN= 78.0; No 3.00; Tpr= .46]
02998) * EXT23
02999) ARH88:CO0025-----
03000) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
03001) CALIB MASHD 1.0 01:EXT23 .85 .052 No_date 2:16 41.34 .513 .000
03002) [CN= 78.0; No 3.00; Tpr= .46]
03003) * EXT24
03004) ARH88:CO0026-----
03005) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
03006) CALIB MASHD 1.0 01:EXT24 .85 .052 No_date 2:16 41.34 .513 .000
03007) [CN= 78.0; No 3.00; Tpr= .46]
03008) * EXT25
03009) ARH88:CO0027-----
03010) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
03011) CALIB MASHD 1.0 01:EXT25 .85 .052 No_date 2:16 41.34 .513 .000
03012) [CN= 78.0; No 3.00; Tpr= .46]
03013) * EXT26
03014) ARH88:CO0028-----
03015) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
03016) CALIB MASHD 1.0 01:EXT26 .85 .052 No_date 2:16 41.34 .513 .000
03017) [CN= 78.0; No 3.00; Tpr= .46]
03018) * EXT27
03019) ARH88:CO0029-----
03020) DRAIN-ID:INVDY-----AREHA-A-PEAKS-TpeakDate_hh:mm-----RWm-R-C-----DWfms
03021) CALIB MASHD 1.0 01:EXT27 .85 .052 No_date 2:16 41.34 .513 .000
03022) [CN= 78.0; No 3.00; Tpr= .46]
03023) * EXT28
03
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[illegible]

Attachment B

Post-Development Hydrology



Legend

Post-development Subcatchments

Site Plan

EXT1 Subcatchment Name

3.212 ha Subcatchment Area (ha)

SCALE: 1:3000

0 50 100 150 m



5923 Ottawa St – Richmond

Figure B1: Proposed Drainage Areas

PROJECT	P2710(e01)
DRAWN	MM
DATE	04-06-2025

Table B1 - Site 1 - Stage/Storage/Outflow Curves

					Quality Control 1		Overflow		Total	
					Vertical Orifice		Broad Crested Weir			
					Dia (m)	0.075	L (m)	0.300		
					Area (m ²)	0.006	C _w	1.580		
					Invert (m)	93.84				
					Q @ D		n contr.			
Elevation (m)	Storage 1 (m³)	Storage 2 (m³)	Total Volume (m³)	Demarcation Points	Depth (m)	Outflow (m³/s)	Depth (m)	Outflow (m³/s)	Outflow (m³/s)	Storage (ha-m)
93.84		0.0	0.0	Pond Bottom	0.000	0.000	0.000	0.000	0.000	0.000
93.85		0.0	0.0		0.010	0.000	0.000	0.000	0.000	0.000
93.86		0.0	0.0		0.020	0.001	0.000	0.000	0.000	0.001
93.87		0.2	0.2		0.030	0.001	0.000	0.000	0.000	0.001
93.88		0.3	0.3		0.040	0.001	0.000	0.000	0.000	0.001
93.89		0.6	0.6		0.050	0.002	0.000	0.000	0.000	0.002
93.90		0.9	0.9		0.060	0.002	0.000	0.000	0.000	0.002
93.91		1.4	1.4		0.070	0.002	0.000	0.000	0.000	0.002
93.92		1.9	1.9		0.080	0.002	0.000	0.000	0.000	0.002
93.93		2.5	2.5		0.090	0.003	0.000	0.000	0.000	0.003
93.94		3.2	3.2		0.100	0.003	0.000	0.000	0.000	0.003
93.95		4.0	4.0		0.110	0.003	0.000	0.000	0.000	0.003
93.96		4.9	4.9		0.120	0.003	0.000	0.000	0.000	0.003
93.97		5.9	5.9		0.130	0.004	0.000	0.000	0.000	0.004
93.98		6.9	6.9		0.140	0.004	0.000	0.000	0.000	0.004
93.99		8.1	8.1		0.150	0.004	0.000	0.000	0.000	0.004
94.00		9.3	9.3		0.160	0.004	0.000	0.000	0.000	0.004
94.01	0.00	10.6	10.6		0.170	0.004	0.000	0.000	0.000	0.004
94.02	0.01	12.0	12.0		0.180	0.005	0.000	0.000	0.000	0.005
94.03	0.07	13.6	13.6		0.190	0.005	0.000	0.000	0.000	0.005
94.04	0.22	15.2	15.4		0.200	0.005	0.000	0.000	0.000	0.005
94.05	0.47	16.9	17.3		0.210	0.005	0.000	0.000	0.000	0.005
94.06	0.84	18.7	19.5		0.220	0.005	0.000	0.000	0.000	0.005
94.07	1.33	20.5	21.9		0.230	0.005	0.000	0.000	0.000	0.005
94.08	1.92	22.5	24.5		0.240	0.005	0.000	0.000	0.000	0.005
94.09	2.61	24.6	27.2		0.250	0.006	0.000	0.000	0.000	0.006
94.10	3.40	26.8	30.2		0.260	0.006	0.000	0.000	0.000	0.006
94.11	4.29	29.1	33.4		0.270	0.006	0.000	0.000	0.000	0.006
94.12	4.78	31.5	36.3		0.280	0.006	0.000	0.000	0.000	0.006
94.13	5.81	34.0	39.8		0.290	0.006	0.000	0.000	0.000	0.006
94.14	7.03	36.6	43.7		0.300	0.006	0.000	0.000	0.000	0.006
94.15	8.37	39.3	47.7		0.310	0.006	0.000	0.000	0.000	0.006
94.16	9.84	42.0	51.9		0.320	0.006	0.000	0.000	0.000	0.006
94.17	11.35	44.8	56.2		0.330	0.006	0.000	0.000	0.000	0.006
94.18	12.18	47.6	59.8		0.340	0.007	0.000	0.000	0.000	0.007
94.19	14.01	50.5	64.5		0.350	0.007	0.000	0.000	0.000	0.007
94.20	15.95	53.3	69.3		0.360	0.007	0.000	0.000	0.000	0.007
94.21	17.98	56.3	74.2		0.370	0.007	0.000	0.000	0.000	0.007
94.22	20.07	59.2	79.3		0.380	0.007	0.000	0.000	0.000	0.007
94.23	22.21	62.2	84.4		0.390	0.007	0.000	0.000	0.000	0.007
94.24	24.38	65.1	89.5		0.400	0.007	0.000	0.000	0.000	0.007
94.25	26.57	68.2	94.7		0.410	0.007	0.000	0.000	0.000	0.007
94.26	28.78	71.2	100.0		0.420	0.007	0.000	0.000	0.000	0.007
94.27	31.02	74.3	105.3		0.430	0.007	0.000	0.000	0.000	0.007
94.28	33.28	77.4	110.7		0.440	0.008	0.000	0.000	0.000	0.008
94.29	35.57	80.5	116.1		0.450	0.008	0.000	0.000	0.000	0.008
94.30	37.88	83.7	121.6		0.460	0.008	0.000	0.000	0.000	0.008
94.31	40.22	86.9	127.1		0.470	0.008	0.000	0.000	0.000	0.008
94.32	42.58	90.1	132.7		0.480	0.008	0.000	0.000	0.000	0.008
94.33	44.97	93.4	138.3		0.490	0.008	0.000	0.000	0.000	0.008
94.34	47.38	96.7	144.1		0.500	0.008	0.000	0.000	0.000	0.008
94.35	49.82	100.0	149.8		0.510	0.008	0.000	0.000	0.000	0.008
94.36	52.28	103.4	155.7		0.520	0.008	0.000	0.000	0.000	0.008
94.37	54.76	106.8	161.5		0.530	0.008	0.000	0.000	0.000	0.008
94.38	57.27	110.2	167.5		0.540	0.008	0.000	0.000	0.000	0.008
94.39	59.81	113.7	173.5		0.550	0.009	0.000	0.000	0.000	0.009
94.40	62.37	117.2	179.6	Max100-Yr WSE*	0.560	0.009	0.000	0.000	0.009	0.018
94.41	64.96	120.8	185.7		0.570	0.009	0.010	0.000	0.009	0.019
94.42	67.57	124.4	191.9		0.580	0.009	0.020	0.001	0.010	0.019
94.43	70.20	128.0	198.2		0.590	0.009	0.030	0.002	0.011	0.020
94.44	72.87	131.7	204.5		0.600	0.009	0.040	0.004	0.013	0.020
94.45	75.55	135.4	210.9		0.610	0.009	0.050	0.005	0.014	0.021
94.46	78.27	139.1	217.4		0.620	0.009	0.060	0.007	0.016	0.022
94.47	81.00	142.9	223.9		0.630	0.009	0.070	0.008	0.018	0.022
94.48	83.77	146.8	230.5		0.640	0.009	0.080	0.010	0.019	0.023
94.49	86.56	150.7	237.2		0.650	0.009	0.090	0.012	0.021	0.024
94.50	89.37	154.6	244.0		0.660	0.009	0.100	0.014	0.023	0.024
94.51	92.21	158.6	250.8		0.670	0.009	0.110	0.016	0.026	0.025
94.52	95.08	162.6	257.7		0.680	0.010	0.120	0.018	0.028	0.026
94.53	97.97	166.7	264.6		0.690	0.010	0.130	0.020	0.030	0.026
94.54	100.89	170.8	271.7		0.700	0.010	0.140	0.023	0.032	0.027
94.55	103.84	175.0	278.8		0.710	0.010	0.150	0.025	0.035	0.028
94.56	106.81	179.2	286.0		0.720	0.010	0.160	0.027	0.037	0.029
94.57	109.80	183.5	293.3		0.730	0.010	0.170	0.029	0.039	0.029
94.58	112.83	187.8	300.6		0.740	0.010	0.180	0.032	0.042	0.030
94.59	115.87	192.2	308.0		0.750	0.010	0.190	0.034	0.044	0.031
94.60	118.95	196.6	315.5		0.760	0.010	0.200	0.037	0.047	0.032
94.61	120.14	201.1	321.2		0.770	0.010	0.210	0.039	0.049	0.032
94.62	121.36	205.6	327.0		0.780	0.010	0.220	0.042	0.052	0.033
94.63	124.56	210.2	334.8		0.790	0.010	0.230	0.044	0.055	0.033
94.64	125.78	214.9	340.6		0.800	0.010	0.240	0.047	0.057	0.034
94.65	125.81	219.6	345.4		0.810	0.010	0.250	0.049	0.060	0.035
94.66	126.99	224.3	351.3		0.820	0.011	0.260	0.052	0.063	0.035
94.67	128.16	229.2	357.3		0.830	0.011	0.270	0.055	0.065	0.036
94.68	131.44	234.1	365.5		0.840	0.011	0.280	0.057	0.068	0.037
94.69	132.60	239.0	371.6		0.850	0.011	0.290	0.060	0.070	0.037
94.70	132.61	244.0	376.6	Pond Top	0.860	0.011	0.300	0.062	0.073	0.038

*Maximum allowable 100-year water level in the pond - not the simulated 100 year water level

Table B2 - Site 2 - Stage/Storage/Outflow Curves

					Quality Control 1		Emergency Overflow			
					Vertical Orifice		Broad Crested Weir			
					Dia (m)	0.075	L (m)	0.300		
					Area (m ²)	0.006	C _w	Invert (m)		
					Invert (m)	93.71				
					C _o	0.61	Invert (m)	94.40		
					Q @ D	0.002	n contr.	2	Total	
Elevation (m)	Storage 3 (m ³)	Storage 4 (m ³)	Total Volume (m ³)	Demarcation Points	Depth (m)	Outflow (m ³ /s)	Depth (m)	Outflow (m ³ /s)	Outflow (m ³ /s)	Storage (ha-m)
93.71		0.0	0.0	Pond Bottom	0.000	0.000	0.000	0.000	0.000	0.000
93.72		0.0	0.0		0.010	0.000	0.000	0.000	0.000	0.000
93.73		0.0	0.0		0.020	0.001	0.000	0.000	0.001	0.000
93.74		0.1	0.1		0.030	0.001	0.000	0.000	0.001	0.000
93.75		0.3	0.3		0.040	0.001	0.000	0.000	0.001	0.000
93.76		0.6	0.6		0.050	0.002	0.000	0.000	0.002	0.000
93.77		1.0	1.0		0.060	0.002	0.000	0.000	0.002	0.000
93.78		1.6	1.6		0.070	0.002	0.000	0.000	0.002	0.000
93.79		2.4	2.4		0.080	0.002	0.000	0.000	0.002	0.000
93.80		3.3	3.3		0.090	0.003	0.000	0.000	0.003	0.000
93.81		4.3	4.3		0.100	0.003	0.000	0.000	0.003	0.000
93.82		5.4	5.4		0.110	0.003	0.000	0.000	0.003	0.001
93.83		6.6	6.6		0.120	0.003	0.000	0.000	0.003	0.001
93.84		7.8	7.8		0.130	0.004	0.000	0.000	0.004	0.001
93.85		9.0	9.0		0.140	0.004	0.000	0.000	0.004	0.001
93.86		10.2	10.2		0.150	0.004	0.000	0.000	0.004	0.001
93.87		11.5	11.5		0.160	0.004	0.000	0.000	0.004	0.001
93.88		12.7	12.7		0.170	0.004	0.000	0.000	0.004	0.001
93.89		14.0	14.0		0.180	0.005	0.000	0.000	0.005	0.001
93.90		15.3	15.3		0.190	0.005	0.000	0.000	0.005	0.002
93.91		16.6	16.6		0.200	0.005	0.000	0.000	0.005	0.002
93.92		17.9	17.9		0.210	0.005	0.000	0.000	0.005	0.002
93.93		19.2	19.2		0.220	0.005	0.000	0.000	0.005	0.002
93.94		20.5	20.5		0.230	0.005	0.000	0.000	0.005	0.002
93.95		21.9	21.9		0.240	0.005	0.000	0.000	0.005	0.002
93.96		23.3	23.3		0.250	0.006	0.000	0.000	0.006	0.002
93.97		24.7	24.7		0.260	0.006	0.000	0.000	0.006	0.002
93.98		26.1	26.1		0.270	0.006	0.000	0.000	0.006	0.003
93.99		27.5	27.5		0.280	0.006	0.000	0.000	0.006	0.003
94.00		28.9	28.9		0.290	0.006	0.000	0.000	0.006	0.003
94.01		30.4	30.4		0.300	0.006	0.000	0.000	0.006	0.003
94.02		31.9	31.9		0.310	0.006	0.000	0.000	0.006	0.003
94.03		33.4	33.4		0.320	0.006	0.000	0.000	0.006	0.003
94.04	0.0	34.9	34.9		0.330	0.006	0.000	0.000	0.006	0.003
94.05	0.1	36.5	36.6		0.340	0.007	0.000	0.000	0.007	0.004
94.06	0.4	38.1	38.4		0.350	0.007	0.000	0.000	0.007	0.004
94.07	0.8	39.7	40.4		0.360	0.007	0.000	0.000	0.007	0.004
94.08	1.3	41.3	42.5		0.370	0.007	0.000	0.000	0.007	0.004
94.09	1.8	42.9	44.7		0.380	0.007	0.000	0.000	0.007	0.004
94.10	2.5	44.6	47.1		0.390	0.007	0.000	0.000	0.007	0.005
94.11	3.3	46.3	49.5	0.400	0.007	0.000	0.000	0.007	0.005	
94.12	4.1	48.0	52.1	0.410	0.007	0.000	0.000	0.007	0.005	
94.13	4.5	49.8	54.3	0.420	0.007	0.000	0.000	0.007	0.005	
94.14	5.6	51.5	57.1	0.430	0.007	0.000	0.000	0.007	0.006	
94.15	6.7	53.3	60.1	0.440	0.008	0.000	0.000	0.008	0.006	
94.16	8.0	55.2	63.2	0.450	0.008	0.000	0.000	0.008	0.006	
94.17	8.5	57.0	65.5	0.460	0.008	0.000	0.000	0.008	0.007	
94.18	10.0	58.9	68.9	0.470	0.008	0.000	0.000	0.008	0.007	
94.19	11.6	60.8	72.4	0.480	0.008	0.000	0.000	0.008	0.007	
94.20	13.3	62.8	76.1	0.490	0.008	0.000	0.000	0.008	0.008	
94.21	15.1	64.8	79.9	0.500	0.008	0.000	0.000	0.008	0.008	
94.22	17.0	66.8	83.8	0.510	0.008	0.000	0.000	0.008	0.008	
94.23	19.1	68.8	87.9	0.520	0.008	0.000	0.000	0.008	0.009	
94.24	21.1	70.9	92.0	0.530	0.008	0.000	0.000	0.008	0.009	
94.25	23.2	73.0	96.3	0.540	0.008	0.000	0.000	0.008	0.010	
94.26	25.4	75.2	100.5	0.550	0.009	0.000	0.000	0.009	0.010	
94.27	27.5	77.3	104.9	0.560	0.009	0.000	0.000	0.009	0.010	
94.28	29.7	79.6	109.3	0.570	0.009	0.000	0.000	0.009	0.011	
94.29	31.9	81.8	113.7	0.580	0.009	0.000	0.000	0.009	0.011	
94.30	34.1	84.1	118.2	0.590	0.009	0.000	0.000	0.009	0.012	
94.31	36.4	86.4	122.8	0.600	0.009	0.000	0.000	0.009	0.012	
94.32	38.7	88.8	127.4	0.610	0.009	0.000	0.000	0.009	0.013	
94.33	41.0	91.2	132.2	0.620	0.009	0.000	0.000	0.009	0.013	
94.34	43.3	93.6	136.9	0.630	0.009	0.000	0.000	0.009	0.014	
94.35	45.7	96.1	141.8	0.640	0.009	0.000	0.000	0.009	0.014	
94.36	48.1	98.6	146.7	0.650	0.009	0.000	0.000	0.009	0.015	
94.37	50.5	101.2	151.7	0.660	0.009	0.000	0.000	0.009	0.015	
94.38	52.9	103.8	156.7	0.670	0.009	0.000	0.000	0.009	0.016	
94.39	55.4	106.5	161.9	0.680	0.010	0.000	0.000	0.010	0.016	
94.40	57.9	109.2	167.1	Max 100-Yr WSE*	0.690	0.010	0.000	0.000	0.010	0.017
94.41	60.4	112.0	172.4		0.700	0.010	0.010	0.000	0.010	0.017
94.42	62.9	114.8	177.8		0.710	0.010	0.020	0.001	0.011	0.018
94.43	65.5	117.7	183.2		0.720	0.010	0.030	0.002	0.012	0.018
94.44	68.1	119.9	188.0		0.730	0.010	0.040	0.004	0.014	0.019
94.46	73.4	123.9	197.3		0.750	0.010	0.060	0.007	0.017	0.020
94.48	78.8	127.6	206.4		0.770	0.010	0.080	0.010	0.020	0.021
94.50	84.3	131.3	215.6		0.790	0.010	0.100	0.014	0.024	0.022
94.52	89.9	134.8	224.6		0.810	0.010	0.120	0.018	0.029	0.022
94.54	95.6	137.6	233.3		0.830	0.011	0.140	0.023	0.033	0.023
94.56	101.4	138.5	239.9		0.850	0.011	0.160	0.027	0.038	0.024
94.58	107.4	140.7	248.1		0.870	0.011	0.180	0.032	0.043	0.025
94.60	113.4	143.7	257.1		0.890	0.011	0.200	0.037	0.048	0.026
94.62	115.8	146.0	261.8		0.910	0.011	0.220	0.042	0.053	0.026
94.64	120.2	149.7	269.9		0.930	0.011	0.240	0.047	0.058	0.027
94.66	121.4	152.7	274.1		0.950	0.011	0.260	0.052	0.063	0.027
94.68	125.8	155.8	281.6		0.970	0.012	0.280	0.057	0.069	0.028
94.70	127.0	158.0	285.0	Pond Top	0.990	0.012	0.300	0.062	0.074	0.028

*Maximum allowable 100-year water level in the pond

Table B3: Rooftop Storage-Outflow Curve for Site 1 Facility (Free Outfall Conditions)

Usable Roof Area (m ²)	488				
Type of Control Device	Watts Drainage - Accutrol Weir				
Number of drains	4				
Storage Depth	Individual flow	Cumulative Flow	Volume	Outflow	Storage
(mm)	(L/s)	(L/S)	(m ³)	(m ³ /s)	(ha·m)
0	0	0	0.000	0.00000	0.00000
5	0.06	0.25	0.810	0.00025	0.00008
10	0.13	0.5	1.630	0.00050	0.00016
15	0.19	0.76	2.440	0.00076	0.00024
20	0.25	1.01	3.260	0.00101	0.00033
25	0.32	1.26	4.070	0.00126	0.00041
30	0.38	1.51	4.880	0.00151	0.00049
35	0.44	1.77	5.700	0.00177	0.00057
40	0.5	2.02	6.510	0.00202	0.00065
45	0.57	2.27	7.330	0.00227	0.00073
50	0.63	2.52	8.140	0.00252	0.00081
55	0.69	2.78	8.960	0.00278	0.00090
60	0.76	3.03	9.770	0.00303	0.00098
65	0.82	3.28	10.580	0.00328	0.00106
70	0.88	3.53	11.400	0.00353	0.00114
75	0.95	3.79	12.210	0.00379	0.00122
80	1.01	4.04	13.030	0.00404	0.00130
85	1.07	4.29	13.840	0.00429	0.00138
90	1.14	4.54	14.650	0.00454	0.00147
95	1.2	4.79	15.470	0.00479	0.00155
100	1.26	5.05	16.280	0.00505	0.00163
105	1.32	5.3	17.100	0.00530	0.00171
110	1.39	5.55	17.910	0.00555	0.00179
115	1.45	5.8	18.730	0.00580	0.00187
120	1.51	6.06	19.540	0.00606	0.00195
125	1.58	6.31	20.350	0.00631	0.00204
130	1.64	6.56	21.170	0.00656	0.00212
135	1.7	6.81	21.980	0.00681	0.00220
140	1.77	7.07	22.800	0.00707	0.00228
145	1.83	7.32	23.610	0.00732	0.00236
150	1.89	7.57	24.420	0.00757	0.00244

Table B4: Rooftop Storage-Outflow Curve for Site 2 Facility (Free Outfall Conditions)

Usable Roof Area (m²)	694				
Type of Control Device	Watts Drainage - Accutrol Weir				
Number of drains	6				
Storage Depth	Individual flow	Cumulative Flow	Volume	Outflow	Storage
(mm)	(L/s)	(L/S)	(m³)	(m³/s)	(ha·m)
0	0	0	0.000	0.00000	0.0000
5	0.06	0.38	1.160	0.00038	0.0001
10	0.13	0.76	2.310	0.00076	0.0002
15	0.19	1.14	3.470	0.00114	0.0003
20	0.25	1.51	4.630	0.00151	0.0005
25	0.32	1.89	5.790	0.00189	0.0006
30	0.38	2.27	6.940	0.00227	0.0007
35	0.44	2.65	8.100	0.00265	0.0008
40	0.5	3.03	9.260	0.00303	0.0009
45	0.57	3.41	10.410	0.00341	0.0010
50	0.63	3.79	11.570	0.00379	0.0012
55	0.69	4.16	12.730	0.00416	0.0013
60	0.76	4.54	13.880	0.00454	0.0014
65	0.82	4.92	15.040	0.00492	0.0015
70	0.88	5.3	16.200	0.00530	0.0016
75	0.95	5.68	17.360	0.00568	0.0017
80	1.01	6.06	18.510	0.00606	0.0019
85	1.07	6.44	19.670	0.00644	0.0020
90	1.14	6.81	20.830	0.00681	0.0021
95	1.2	7.19	21.980	0.00719	0.0022
100	1.26	7.57	23.140	0.00757	0.0023
105	1.32	7.95	24.300	0.00795	0.0024
110	1.39	8.33	25.450	0.00833	0.0025
115	1.45	8.71	26.610	0.00871	0.0027
120	1.51	9.08	27.770	0.00908	0.0028
125	1.58	9.46	28.930	0.00946	0.0029
130	1.64	9.84	30.080	0.00984	0.0030
135	1.7	10.22	31.240	0.01022	0.0031
140	1.77	10.6	32.400	0.01060	0.0032
145	1.83	10.98	33.550	0.01098	0.0034
150	1.89	11.36	34.710	0.01136	0.0035

```

20      Metric units / ID numbers OFF
*#*****
***
*#  SWMHYMO  /  INPUT DATA FILE
*#*****
***
*#  Project Name   : [5923 Ottawa St]
*#  Project Number: [P2710(e01)]
*#  Date           : [2025 April 28]
*#  Modeller       : [MM]
*#  Company        : JFSA Canada Inc.
*#  License #      : 2549237
*#*****
***
*# Model developed to simulate runoff from subcatchments under post development conditions
*#*****
***
*%  25 mm Storm based on 2-Year, 3-Hour Chicago Storm
START      TZERO=[0.0],  METOUT=[2],  NSTORM=[1],  NRUN=[002]
           ["002YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
READ STORM      STORM_FILENAME=["STORM.001"]
*%-----|-----
*#*****
***
*%-----|-----
DEFAULT VALUES      ICASEdef=[1],  read values only
                     DEFVAL_FILENAME=["Ottawa.val"]
*%-----|-----
*#*****
***
*#  EXT1
*#*****
***
CALIB NASHYD      NHYD=["EXT1"],  DT[1] (min),  AREA=[3.211] (ha),
                  DWF=[0] (cms),  CN=[80],
                  IA=[4.67] (mm),  N=[3],  TP[0.72] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*#  EXT2
*#*****
***
CALIB NASHYD      NHYD=["EXT2"],  DT[1] (min),  AREA=[0.285] (ha),
                  DWF=[0] (cms),  CN=[85],
                  IA=[4.67] (mm),  N=[3],  TP[0.33] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*#  EXT3
*#*****
***
CALIB NASHYD      NHYD=["EXT3"],  DT[1] (min),  AREA=[0.560] (ha),
                  DWF=[0] (cms),  CN=[80],
                  IA=[4.67] (mm),  N=[3],  TP[0.32] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*#  EXT4
*#*****
***
CALIB NASHYD      NHYD=["EXT4"],  DT[1] (min),  AREA=[0.309] (ha),
                  DWF=[0] (cms),  CN=[79],
                  IA=[4.67] (mm),  N=[3],  TP[0.29] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*#  EXT5
*#*****

```

```
***
CALIB NASHYD      NHYD=["EXT5"], DT[1] (min), AREA=[0.594] (ha),
                  DWF=[0] (cms), CN=[76],
                  IA=[4.67] (mm), N=[3], TP[0.45] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT6
*#*****
***
CALIB NASHYD      NHYD=["EXT6"], DT[1] (min), AREA=[0.864] (ha),
                  DWF=[0] (cms), CN=[85],
                  IA=[4.67] (mm), N=[3], TP[0.56] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT7
*#*****
***
CALIB NASHYD      NHYD=["EXT7"], DT[1] (min), AREA=[0.471] (ha),
                  DWF=[0] (cms), CN=[83],
                  IA=[4.67] (mm), N=[3], TP[0.32] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT8
*#*****
***
CALIB NASHYD      NHYD=["EXT8"], DT[1] (min), AREA=[0.834] (ha),
                  DWF=[0] (cms), CN=[79],
                  IA=[4.67] (mm), N=[3], TP[0.42] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT9
*#*****
***
CALIB NASHYD      NHYD=["EXT9"], DT[1] (min), AREA=[3.571] (ha),
                  DWF=[0] (cms), CN=[76],
                  IA=[4.67] (mm), N=[3], TP[0.48] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT9a
*#*****
***
CALIB NASHYD      NHYD=["EXT9a"], DT[1] (min), AREA=[0.011] (ha),
                  DWF=[0] (cms), CN=[78],
                  IA=[4.67] (mm), N=[3], TP[0.04] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# EXT10
*#*****
***
CALIB NASHYD      NHYD=["EXT10"], DT[1] (min), AREA=[0.203] (ha),
                  DWF=[0] (cms), CN=[71],
                  IA=[4.67] (mm), N=[3], TP[0.42] (hrs),
                  RAINFALL[ , , -1]
*#*****
***
*# Pre2_1
*#*****
***
CALIB NASHYD      NHYD=["Pre2_1"], DT[1] (min), AREA=[0.013] (ha),
                  DWF=[0] (cms), CN=[72],
                  IA=[4.67] (mm), N=[3], TP[0.03] (hrs),
                  RAINFALL[ , , -1]
*#*****
```

```
*# Pre2_2
*****
CALIB NASHYD      NHYD=["Pre2_2"], DT[1] (min), AREA=[0.002] (ha),
                  DWF=[0] (cms), CN=[78],
                  IA=[4.67] (mm), N=[3], TP[0.02] (hrs),
                  RAINFALL[ , , -1]
*****
*# Pre9_1
*****
CALIB NASHYD      NHYD=["Pre9_1"], DT[1] (min), AREA=[0.437] (ha),
                  DWF=[0] (cms), CN=[71],
                  IA=[4.67] (mm), N=[3], TP[0.38] (hrs),
                  RAINFALL[ , , -1]
*****
*# Pre9_2
*****
CALIB NASHYD      NHYD=["Pre9_2"], DT[1] (min), AREA=[0.014] (ha),
                  DWF=[0] (cms), CN=[75],
                  IA=[4.67] (mm), N=[3], TP[0.03] (hrs),
                  RAINFALL[ , , -1]
*****
*# Pre10_1
*****
CALIB NASHYD      NHYD=["Pre10_1"], DT[1] (min), AREA=[0.799] (ha),
                  DWF=[0] (cms), CN=[71],
                  IA=[4.67] (mm), N=[3], TP[0.29] (hrs),
                  RAINFALL[ , , -1]
*****
*# Pre11_1
*****
CALIB NASHYD      NHYD=["Pre11_1"], DT[1] (min), AREA=[0.067] (ha),
                  DWF=[0] (cms), CN=[78],
                  IA=[4.67] (mm), N=[3], TP[0.21] (hrs),
                  RAINFALL[ , , -1]
*****
*# Site 1
*****
DESIGN STANDHYD   NHYD=["S1-B1"], DT=[1] (min), AREA=[0.417] (ha),
                  XIMP=[0.34], TIMP=[0.44], DWF=[0] (cms),
                  LOSS=[1], SLOPE=[1.0] (%), RAINFALL=[ , , -1] (mm/hr)
*****
*# Site 1 - Roof
*****
DESIGN STANDHYD   NHYD=["S1-Roof"], DT=[1] (min), AREA=[0.065] (ha),
                  XIMP=[0.99], TIMP=[0.99], DWF=[0] (cms),
                  LOSS=[1], SLOPE=[0.5] (%), RAINFALL=[ , , -1] (mm/hr)
%-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
* Rooftop Storage-Outflow Curve for site 1 Facility - Updated March 2026 Per EGIS Report
ROUTE RESERVOIR   NHYDout=["S1-Roof-Out"], NHYDin=["S1-Roof"], RDT=[1] (min),
                  TABLE of ( OUTFLOW-STORAGE ) values
                  (cms) - (ha-m)
                  [ 0 , 0 ]
                  [ 0.00025 , 0.000081 ]
                  [ 0.0005 , 0.000163 ]
```

NHYDovf= ["S1-Roof-Over"] ,

* $\frac{0}{0}$ ----- | -----

ROUTE RESERVOIR NYHDout=["SITE1-Out"], NYHDin=["SITE1-IN"], RDT=[1] (min),

(cms) - (ha-m)

```
[ 0.00000 , 0 ]
[ 0.00062 , 0 ]
[ 0.00154 , 0.00006 ]
[ 0.00246 , 0.00019 ]
[ 0.00321 , 0.0004 ]
[ 0.00382 , 0.00069 ]
[ 0.00435 , 0.00106 ]
[ 0.00481 , 0.00154 ]
[ 0.00524 , 0.00219 ]
[ 0.00563 , 0.00302 ]
[ 0.006 , 0.00398 ]
[ 0.00634 , 0.00519 ]
[ 0.00667 , 0.00645 ]
[ 0.00699 , 0.00793 ]
[ 0.00729 , 0.00947 ]
[ 0.00757 , 0.01107 ]
[ 0.00785 , 0.01271 ]
[ 0.00812 , 0.01441 ]
[ 0.00838 , 0.01615 ]
[ 0.00863 , 0.01796 ]
[ 0.01129 , 0.01982 ]
[ 0.0158 , 0.02174 ]
[ 0.02137 , 0.02372 ]
[ 0.0277 , 0.02577 ]
[ 0.03457 , 0.02788 ]
[ 0.04186 , 0.03006 ]
[ 0.04945 , 0.03212 ]
[ 0.05724 , 0.03406 ]
[ 0.06516 , 0.03573 ]
[ 0.07313 , 0.03766 ]
```

```

[ -1 , -1 ]
NHYDovf=["SITE1-Over"],
*%-----|-----|-----
*#*****
***
*# Site 2
*#*****
***
DESIGN STANDHYD      NHYD=["S2-B3"], DT=[1] (min), AREA=[0.357] (ha),
                     XIMP=[0.31], TIMP=[0.41], DWF=[0] (cms),
                     LOSS=[1], SLOPE=[1.0] (%), RAINFALL=[ , , -1] (mm/hr)
*#*****
***
*# Site 2 - Roof
*#*****
***
DESIGN STANDHYD      NHYD=["S2-Roof"], DT=[1] (min), AREA=[0.093] (ha),
                     XIMP=[0.99], TIMP=[0.99], DWF=[0] (cms),
                     LOSS=[1], SLOPE=[0.5] (%), RAINFALL=[ , , -1] (mm/hr)
*#*****
***
* Rooftop Storage-Outflow Curve for site 2 Facility - Updated March 2026 Per EGIS Report
ROUTE RESERVOIR      NHYDout=["S2-Roof-Out"], NHYDin=["S2-Roof"], RDT=[1] (min),
                     TABLE of ( OUTFLOW-STORAGE ) values
                           (cms) - (ha-m)
                           [ 0 , 0 ]
                           [ 0.00038 , 0.000116 ]
                           [ 0.00076 , 0.000231 ]
                           [ 0.00114 , 0.000347 ]
                           [ 0.00151 , 0.000463 ]
                           [ 0.00189 , 0.000579 ]
                           [ 0.00227 , 0.000694 ]
                           [ 0.00265 , 0.00081 ]
                           [ 0.00303 , 0.000926 ]
                           [ 0.00341 , 0.001041 ]
                           [ 0.00379 , 0.001157 ]
                           [ 0.00416 , 0.001273 ]
                           [ 0.00454 , 0.001388 ]
                           [ 0.00492 , 0.001504 ]
                           [ 0.0053 , 0.00162 ]
                           [ 0.00568 , 0.001736 ]
                           [ 0.00606 , 0.001851 ]
                           [ 0.00644 , 0.001967 ]
                           [ 0.00681 , 0.002083 ]
                           [ 0.00719 , 0.002198 ]
                           [ 0.00757 , 0.002314 ]
                           [ 0.00795 , 0.00243 ]
                           [ 0.00833 , 0.002545 ]
                           [ 0.00871 , 0.002661 ]
                           [ 0.00908 , 0.002777 ]
                           [ 0.00946 , 0.002893 ]
                           [ 0.00984 , 0.003008 ]
                           [ 0.01022 , 0.003124 ]
                           [ 0.0106 , 0.00324 ]
                           [ 0.01098 , 0.003355 ]
                           [ 0.01136 , 0.003471 ]
                           [ -1 , -1 ]
                     NHYDovf=["S2-Roof-Over"],
*%-----|-----|-----
ADD HYD              NHYDsum=["SITE2-IN"], NHYDs to add=["S2-B3"+"S2-Roof-Out"+"S2-Roof-Over"]
*%-----|-----|-----
* Pond for Site 2: Stage-Storage-Outflow
ROUTE RESERVOIR      NHYDout=["SITE2-Out"], NHYDin=["SITE2-IN"], RDT=[1] (min),
                     TABLE of ( OUTFLOW-STORAGE
                           (cms) - (ha-m)
                           [ 0 , 0 ]
                           [ 0.0012 , 0.00003 ]
                           [ 0.0022 , 0.00016 ]

```

```

[ 0.003 , 0.00043 ]
[ 0.0036 , 0.00078 ]
[ 0.0042 , 0.00115 ]
[ 0.0047 , 0.00153 ]
[ 0.0051 , 0.00192 ]
[ 0.0055 , 0.00233 ]
[ 0.0059 , 0.00275 ]
[ 0.0062 , 0.00319 ]
[ 0.0066 , 0.00366 ]
[ 0.0069 , 0.00425 ]
[ 0.0072 , 0.00495 ]
[ 0.0075 , 0.00571 ]
[ 0.0078 , 0.00655 ]
[ 0.008 , 0.00761 ]
[ 0.0083 , 0.00879 ]
[ 0.0085 , 0.01005 ]
[ 0.0088 , 0.01137 ]
[ 0.009 , 0.01274 ]
[ 0.0093 , 0.01418 ]
[ 0.0095 , 0.01567 ]
[ 0.0102 , 0.01724 ]
[ 0.0136 , 0.0188 ]
[ 0.0243 , 0.02156 ]
[ 0.0379 , 0.02399 ]
[ 0.0529 , 0.02618 ]
[ 0.0686 , 0.02816 ]
[ 0.0846 , 0.02879 ]
[ 0.1002 , 0.02887 ]
[ 0.1151 , 0.02893 ]
[ 0.129 , 0.02896 ]
[ 0.1417 , 0.029 ]
[ -1 , -1 ]

```

```
NHYDovf=["SITE2-Over"],
```

```

*%-----|-----
ADD HYD    NHYDsum=["Site1"], NHYDs to add=["SITE1-Out"+"SITE1-Over"]
*%-----|-----
ADD HYD    NHYDsum=["Site2"], NHYDs to add=["SITE2-Out"+"SITE2-Over"]
*%-----|-----
ADD HYD    NHYDsum=["J1"], NHYDs to add=["EXT2"+"Pre2_1"+"Site1"+"Site2"]
*%-----|-----

```

```
* NOTE: Cross-section number 849.0434 is taken from HEC-RAS Model
```

```

ROUTE CHANNEL    NHYDout=["R1"], NHYDin=["J1"], RDT=[1] (min),
                  CHLGTH=[143.151] (m), CHSLOPE=[0.394] (%), FPSLOPE=[0.394] (%),
                  SECNUM=[849.0434], NSEG=[3],
                  ( SEGROUGH, SEGDIST (m))=[0.08,18.95 -0.035,26.78 0.08,35.18] NSEG times
                  ( DISTANCE (m), ELEVATION (m))=[0.48, 94.05]
                                                    [3.19, 93.99]
                                                    [6.85, 93.91]
                                                    [10.48, 93.87]
                                                    [17.45, 93.85]
                                                    [18.95, 93.84]
                                                    [20.36, 93.81]
                                                    [22.3, 93.76]
                                                    [22.53, 93.72]
                                                    [23.98, 93.35]
                                                    [24.35, 93.33]
                                                    [24.65, 93.37]
                                                    [25.04, 93.45]
                                                    [26.04, 93.74]
                                                    [26.44, 93.82]
                                                    [26.78, 93.87]
                                                    [29.14, 94.11]
                                                    [33.98, 94.26]
                                                    [35.18, 94.26]

```

```

*%-----|-----
ADD HYD    NHYDsum=["J2"], NHYDs to add=["R1"+"EXT3"+"EXT1"]
*%-----|-----

```

```
* NOTE: Cross-section number 737.5813 is taken from HEC-RAS Model
```

```
ROUTE CHANNEL    NHYDout=["R2"], NHYDin=["J2"], RDT=[1] (min),
```

```

CHLGTH=[73.338] (m), CHSLOPE=[0.425] (%), FPSLOPE=[0.425] (%),
SECNUM=[737.5813], NSEG=[3],
  ( SEGROUGH, SEGDIST (m))=[0.08,8.4 -0.035,16.42 0.08,22.6] NSEG times
  ( DISTANCE (m), ELEVATION (m))=[0, 93.52]
    [1.08, 93.5]
    [4.37, 93.48]
    [6.31, 93.45]
    [8.4, 93.38]
    [9.5, 93.31]
    [10.49, 93.23]
    [10.99, 93.18]
    [12.4, 92.94]
    [13.11, 92.84]
    [13.67, 92.92]
    [16.42, 93.6]
    [16.91, 93.65]
    [17.97, 93.65]
    [19, 93.83]
    [19.51, 93.89]
    [21.06, 93.94]
    [22.6, 93.95]

```

```

*%-----|-----
ADD HYD    NHYDsum=["J3"], NHYDs to add=["R2"+"EXT4"]
*%-----|-----
* NOTE: Cross-section number 675.4097 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R3"], NHYDin=["J3"], RDT=[1] (min),
CHLGTH=[92.08] (m), CHSLOPE=[0.274] (%), FPSLOPE=[0.274] (%),
SECNUM=[675.4097], NSEG=[3],
  ( SEGROUGH, SEGDIST (m))=[0.08,31.64 -0.035,42.44 0.08,48.87] NSEG times
  ( DISTANCE (m), ELEVATION (m))=[30.59, 93.12]
    [31.64, 93.13]
    [34.35, 93.08]
    [35.18, 93.03]
    [37.78, 92.72]
    [38.25, 92.64]
    [38.7, 92.61]
    [39.74, 92.76]
    [42.44, 93.41]
    [42.89, 93.49]
    [43.97, 93.57]
    [44.92, 93.6]
    [46.07, 93.67]
    [48.87, 93.74]

```

```

*%-----|-----
ADD HYD    NHYDsum=["J4"], NHYDs to add=["R3"+"EXT5"]
*%-----|-----
* NOTE: Cross-section number 518.7506 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R4"], NHYDin=["J4"], RDT=[1] (min),
CHLGTH=[251.495] (m), CHSLOPE=[0.19] (%), FPSLOPE=[0.19] (%),
SECNUM=[518.7506], NSEG=[3],
  ( SEGROUGH, SEGDIST (m))=[0.08,51.48 -0.035,59.39 0.08,66.4] NSEG times
  ( DISTANCE (m), ELEVATION (m))=[0, 92.92]
    [4.26, 92.9]
    [48.31, 92.76]
    [51.48, 92.76]
    [53.64, 92.7]
    [55.33, 92.29]
    [55.44, 92.29]
    [56.43, 92.37]
    [56.97, 92.43]
    [59.39, 93.27]
    [59.74, 93.37]
    [60.8, 93.52]
    [63.31, 93.71]
    [66.4, 93.76]

```

```

*%-----|-----
ADD HYD    NHYDsum=["J5"], NHYDs to add=["R4"+"EXT6"+"EXT7"]
*%-----|-----
* NOTE: Cross-section number 275.0857 is taken from HEC-RAS Model

```

```

ROUTE CHANNEL      NHYDout=["R5"], NHYDin=["J5"], RDT=[1] (min),
                   CHLGTH=[237.343] (m), CHSLOPE=[0.644] (%), FPSLOPE=[0.644] (%),
                   SECNUM=[275.0857], NSEG=[3],
                   ( SEGROUGH, SEGDIST (m))=[0.08,40.82 -0.035,53.64 0.08,57.93] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[36.16, 92.63]
                                     [40.82, 92.97]
                                     [41.39, 92.9]
                                     [44.69, 91.72]
                                     [45.24, 91.58]
                                     [46.33, 91.43]
                                     [47.41, 91.64]
                                     [47.87, 91.75]
                                     [49.59, 92.2]
                                     [50.99, 92.36]
                                     [51.44, 92.48]
                                     [53.18, 92.98]
                                     [53.64, 93.15]
                                     [55.92, 93.66]
                                     [57.93, 93.68]

*%-----|-----
ADD HYD      NHYDsum=["Pre"], NHYDs to add=["Pre10_1"+"Pre9_2"+"Pre2_2"]
*%-----|-----
* NOTE: Cross-section number 124 is taken from HEC-RAS Model
ROUTE CHANNEL      NHYDout=["R6"], NHYDin=["Pre"], RDT=[1] (min),
                   CHLGTH=[77.414] (m), CHSLOPE=[0.776] (%), FPSLOPE=[0.776] (%),
                   SECNUM=[124], NSEG=[3],
                   ( SEGROUGH, SEGDIST (m))=[0.08,8.34 -0.035,31.31 0.08,84.97] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[1.78, 93.73]
                                     [4.51, 93.54]
                                     [5.06, 93.31]
                                     [7.25, 92.98]
                                     [7.79, 92.77]
                                     [8.34, 92.49]
                                     [9.43, 91.93]
                                     [9.68, 91.81]
                                     [10.53, 91.27]
                                     [12.64, 90.92]
                                     [14.44, 90.9]
                                     [16.54, 91.06]
                                     [17.64, 91.06]
                                     [30.22, 92.3]
                                     [31.31, 92.45]
                                     [33.5, 92.41]
                                     [55.37, 93.11]
                                     [57.01, 93.2]
                                     [84.97, 93.43]

*%-----|-----
* NOTE: Cross-section number 74 is taken from HEC-RAS Model
ROUTE CHANNEL      NHYDout=["R7"], NHYDin=["Pre9_1"], RDT=[1] (min),
                   CHLGTH=[159.151] (m), CHSLOPE=[1.576] (%), FPSLOPE=[1.576] (%),
                   SECNUM=[74], NSEG=[3],
                   ( SEGROUGH, SEGDIST (m))=[0.08,4.67 -0.035,81.24 0.08,82.88] NSEG times
                   ( DISTANCE (m), ELEVATION (m))=[1.94, 93.64]
                                     [4.67, 93.32]
                                     [5.77, 93.15]
                                     [7.41, 92.69]
                                     [7.95, 92.37]
                                     [9.36, 91.71]
                                     [10.12, 91.22]
                                     [10.49, 91.06]
                                     [12.64, 90.89]
                                     [16.16, 90.92]
                                     [18.83, 91.66]
                                     [19.59, 92.02]
                                     [21.62, 92.39]
                                     [24.87, 92.48]
                                     [30.37, 92.55]
                                     [34.37, 92.65]
                                     [77.41, 92.82]

```

```

[80.6, 93.25]
[81.24, 93.48]
[82.88, 93.79]
*%-----|-----
ADD HYD      NHYDsum=["J6"], NHYDs to add=["R6"+"EXT10"+"Pre11_1"+"EXT9a"]
*%-----|-----
* NOTE: Cross-section number 49 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R8"], NHYDin=["J6"], RDT=[1] (min),
CHLGTH=[78.801] (m), CHSLOPE=[0.522] (%), FPSLOPE=[0.522] (%),
SECNUM=[49], NSEG=[3],
( SEGROUGH, SEGDIST (m))=[0.08,8.71 -0.035,20.59 0.08,116.73] NSEG times
( DISTANCE (m), ELEVATION (m))=[0, 93.36]
[1.93, 93.63]
[4.61, 93.26]
[6.23, 93.1]
[8.19, 92.26]
[8.71, 91.84]
[9.86, 91.47]
[10.53, 91.04]
[13.84, 91]
[14.5, 91.11]
[16.97, 91.27]
[20.59, 91.76]
[23.3, 91.64]
[30.34, 91.85]
[35.29, 91.92]
[116.73, 92.96]
*%-----|-----
ADD HYD      NHYDsum=["J7"], NHYDs to add=["R8"+"R7"]
*%-----|-----
* NOTE: Cross-section number 7 is taken from HEC-RAS Model
ROUTE CHANNEL NHYDout=["R9"], NHYDin=["J7"], RDT=[1] (min),
CHLGTH=[29.445] (m), CHSLOPE=[0.887] (%), FPSLOPE=[0.887] (%),
SECNUM=[7], NSEG=[3],
( SEGROUGH, SEGDIST (m))=[0.08,1.5 -0.035,22.44 0.08,100.08] NSEG times
( DISTANCE (m), ELEVATION (m))=[0, 93.4]
[1.5, 93.63]
[3.13, 93.62]
[4.76, 93.28]
[5.3, 93.25]
[6.52, 93.08]
[6.96, 92.95]
[10.57, 90.95]
[13.59, 90.67]
[15.83, 90.72]
[16.42, 90.85]
[18.66, 91.76]
[20.82, 91.86]
[22.44, 91.92]
[27.84, 91.98]
[30.15, 91.96]
[100.08, 92.61]
*%-----|-----
ADD HYD      NHYDsum=["J8"], NHYDs to add=["EXT9"+"R9"+"EXT8"+"R5"]
*%-----|-----
* Note: The pipe needs to be adjusted based on the Culvert-under-railway information
ROUTE PIPE   PTYPE=[1]circ, NHYDout=["Outlet"], RNUMBER=[1.0],
PDIAM=[525] (mm), PLNGTH=[8.407] (m), PROUGH=[0.013], PSLOPE=[0.0001] (m/m),
NHYDin=["J8"], RDT=[1] (min)
*%-----|-----
*#####
*# STORMS
*#####
*% 2-Year, 3-Hour Chicago Storm
*START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[002]
*           ["002YC3H.stm"] <--storm filename, one per line for NSTORM time
*%-----|-----
*% 5-Year, 3-Hour Chicago Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[005]

```

```

[ "005YC3H.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 10-Year, 3-Hour Chicago Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[010]
[ "010YC3H.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 25-Year, 3-Hour Chicago Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[025]
[ "025YC3H.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 50-Year, 3-Hour Chicago Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[050]
[ "050YC3H.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 100-Year, 3-Hour Chicago Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[099]
[ "100YC3H.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 2-Year, 24-Hour SCS Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[102]
[ "SC24002x.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 5-Year, 24-Hour SCS Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[105]
[ "SC24005x.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 10-Year, 24-Hour SCS Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[110]
[ "SC24010x.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 25-Year, 24-Hour SCS Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[125]
[ "SC24025x.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 50-Year, 24-Hour SCS Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[150]
[ "SC24050x.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 100-Year, 24-Hour SCS Storm
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[199]
[ "SC24100x.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% July 1st, 1979 Storm - Ottawa International Airport
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[1979]
[ "19790701.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% August 4th, 1988 Storm - Ottawa International Airport
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[1988]
[ "19880804.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% August 8th, 1996 Storm - Ottawa International Airport
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[1996]
[ "19960808.stm" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
*% 100-Year, 3-Hour Chicago Storm + 20%
START      TZERO=[0.0], METOUT=[2], NSTORM=[1], NRUN=[9999]
[ "100YC3H+.STM" ] <--storm filename, one per line for NSTORM time
*%-----|-----|
FINISH

```

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```
00361 [I/S/n= 79./ .522/.035]
00362 [Vmax= 423/Imax= .016]
00363 R0005:C00048-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00364 ADD HYD + 1.0 02:28 1.10 .016 No.Date 4.41 6.00 n/a .000
00365 + 1.0 02:28 .84 .017 No.Date 4.37 5.88 n/a .000
00366 SUM= 1.0 01:27 1.53 .020 No.Date 1.30 5.96 n/a .000
00367 R0005:C00049-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00368 ROUTE CHANNEL -> 1.0 02:27 1.53 .020 No.Date 1.30 5.96 n/a .000
00369 [RDT= 1.00] out-> 1.0 01:89 1.53 .020 No.Date 1.31 5.96 n/a .000
00370 [I/S/n= 29./ .887/.035]
00371 [Vmax= .543/Imax= .013]
00372 R0005:C00050-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00373 ADD HYD + 1.0 02:19 3.57 .045 No.Date 1.38 6.88 n/a .000
00374 + 1.0 02:28 1.53 .020 No.Date 1.31 6.02 n/a .000
00375 + 1.0 02:28 .83 .013 No.Date 1.37 5.81 n/a .000
00376 + 1.0 02:18 7.24 .084 No.Date 2.05 9.48 n/a .000
00377 SUM= 1.0 01:27 13.18 .146 No.Date 1.52 9.27 n/a .000
00378 R0005:C00051-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00379 ROUTE PIPE -> 1.0 02:28 13.18 .146 No.Date 1.52 8.27 n/a .000
00380 [RDT= 1.00] out-> 1.0 01:01 outlet 13.18 .146 No.Date 1.53 8.27 n/a .000
00381 [I/S/n= 8./ .010/.013]
00382 [Vmax= .307/Imax= .082]
00383 [Dine= .53/Dused= .83]
00384 #####
00385 # STORM
00386 #####
00387 ** END OF RUN : 4
00388
00389
00390
00391
00392
00393
00394
00395 RUN:COMMAND#
00396 R0005:C0001-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00397 START
00398 [TZERO= .00 hrs on 0]
00399 [METOUT= 2 (1=Imperial, 2=metric output)]
00400 [METORM= 1]
00401 [INUN= 0005]
00402 #####
00403 # SWHYNO / INPUT DATA FILE
00404 #####
00405 # Project Name : [5923 Ottawa SE]
00406 # Project Number: [P2710(01)]
00407 # Date : [2025 April 28]
00408 # Modeller : [NM]
00409 # Company : JFSA Canada Inc.
00410 # License # : 2549217
00411 #####
00412 # Model develops a simulation from subcatchments under post development conditions
00413 #####
00414 R0005:C0002-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00415 HEAD STORM
00416 Filename = STORM.001
00417 Comment = CHICAGO STORM 5 Year, 3 Hours
00418 [SDT=10.0;SDUR= 3.00;PTOT= 42.51]
00419 #####
00420 R0005:C0003-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00421 DEFAULT VALUES
00422 [FileTemp= C:\Temp\20240327-PostDev\Ottawa.val]
00423 [ICASEB= 1 (read and print data)]
00424 [FileTitle= File comment: [Parameters for City of Ottawa Projects]]
00425 THE FOLLOWING PARAMETERS ARE USED IN THE DESIGN STANDARDY CHM
00426 Horton's infiltration equation parameters:
00427 [F= 16.00 mm/hr] [Fm1=20.00 mm/hr] [CXY= 4.14 /hr] [F= .00 mm]
00428 Parameters for PERVIOUS surfaces in STANDBY:
00429 [Igrs= 4.67 mm] [Lgr=40.00 mm] [DHW= .230]
00430 Parameters for IMPVIOUS surfaces in STANDBY:
00431 [Ialpm= 1.57 mm] [Clim= 1.50] [DHW= .013]
00432 Parameters used in STANDBY:
00433 [Ia= 4.67 mm] [N= 3.00]
00434 Average monthly Pan Evaporation data in (mm)
00435 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
00436 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
00437 Average monthly Potential Evapotranspiration in (mm)
00438 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
00439 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
00440 #####
00441 # EXT1
00442 [I/S/n= 143./ .394/.035]
00443 R0005:C00004-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00444 CALIB NASHYD 1.0 01:EXT1 3.21 .066 No.Date 1.55 14.13 .332 .000
00445 [Cm= 85.0; N= 3.00] Tpe= .561
00446 #####
00447 # EXT1
00448 #####
00449 R0005:C00005-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00450 CALIB NASHYD 1.0 01:EXT1 .02 No.Date 1.23 15.94 .375 .000
00451 [Cm= 85.0; N= 3.00] Tpe= .331
00452 #####
00453 # EXT3
00454 #####
00455 R0005:C00006-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00456 CALIB NASHYD 1.0 01:EXT3 .56 .020 No.Date 1.23 14.13 .332 .000
00457 [Cm= 85.0; N= 3.00] Tpe= .332
00458 #####
00459 # EXT4
00460 #####
00461 R0005:C00007-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00462 CALIB NASHYD 1.0 01:EXT4 .31 .011 No.Date 1.21 13.59 .320 .000
00463 [Cm= 79.0; N= 3.00] Tpe= .291
00464 #####
00465 # EXT5
00466 #####
00467 R0005:C00008-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00468 CALIB NASHYD 1.0 01:EXT5 .59 .014 No.Date 1.34 12.13 .285 .000
00469 [Cm= 76.0; N= 3.00] Tpe= .451
00470 #####
00471 # EXT6
00472 #####
00473 R0005:C00009-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00474 CALIB NASHYD 1.0 01:EXT6 .86 .026 No.Date 1.42 17.32 .407 .000
00475 [Cm= 85.0; N= 3.00] Tpe= .421
00476 #####
00477 # EXT7
00478 #####
00479 R0005:C00010-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00480 CALIB NASHYD 1.0 01:EXT7 .01 .001 No.Date 1.00 10.48 .246 .000
00481 [Cm= 85.0; N= 3.00] Tpe= .321
00482 #####
00483 # EXT8
00484 #####
00485 R0005:C00011-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00486 CALIB NASHYD 1.0 01:EXT8 .83 .024 No.Date 1.31 13.59 .320 .000
00487 [Cm= 79.0; N= 3.00] Tpe= .291
00488 #####
00489 # EXT9
00490 #####
00491 R0005:C00012-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00492 CALIB NASHYD 1.0 01:EXT9 3.57 .093 No.Date 1.36 12.13 .285 .000
00493 [Cm= 76.0; N= 3.00] Tpe= .481
00494 #####
00495 # EXT9a
00496 #####
00497 R0005:C00013-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00498 CALIB NASHYD 1.0 01:EXT9a .01 .001 No.Date 1.00 13.07 .307 .000
00499 [Cm= 76.0; N= 3.00] Tpe= .041
00500 #####
00501 # EXT10
00502 #####
00503 R0005:C00014-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00504 CALIB NASHYD 1.0 01:EXT10 .20 .004 No.Date 1.32 10.11 .238 .000
00505 [Cm= 85.0; N= 3.00] Tpe= .421
00506 #####
00507 # Pre1_1
00508 #####
00509 R0005:C00015-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00510 CALIB NASHYD 1.0 01:Pre1_1 .01 .001 No.Date 1.00 10.48 .246 .000
00511 [Cm= 72.0; N= 3.00] Tpe= .031
00512 #####
00513 # Pre2_2
00514 #####
00515 R0005:C00016-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00516 CALIB NASHYD 1.0 01:Pre2_2 .00 .000 No.Date 1.00 13.06 .307 .000
00517 [Cm= 76.0; N= 3.00] Tpe= .291
00518 #####
00519 # Pre1_1
00520 #####
00521 R0005:C00017-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00522 CALIB NASHYD 1.0 01:Pre1_1 .44 .010 No.Date 1.29 10.11 .238 .000
00523 [Cm= 71.0; N= 3.00] Tpe= .381
00524 #####
00525 # Pre2_2
00526 #####
00527 R0005:C00018-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00528 CALIB NASHYD 1.0 01:Pre2_2 .01 .001 No.Date 1.00 11.68 .275 .000
00529 [Cm= 75.0; N= 3.00] Tpe= .031
00530 #####
00531 # Pre1_1
00532 #####
00533 R0005:C00019-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00534 CALIB NASHYD 1.0 01:Pre1_1 .80 .021 No.Date 1.21 10.11 .238 .000
00535 [Cm= 71.0; N= 3.00] Tpe= .291
00536 #####
00537 # Pre1_1
00538 #####
00539 R0005:C00020-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00540 CALIB NASHYD 1.0 01:Pre1_1 .07 .003 No.Date 1.14 13.07 .308 .000
00541 [Cm= 78.0; N= 3.00] Tpe= .211
00542 #####
00543 # Site 1
00544 #####
00545 R0005:C00021-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00546 DESIGN STANDARDY 1.0 01:81-B1 .42 .053 No.Date 1.00 21.70 .510 .000
00547 [XIMP= 39;TIMP= .44]
00548 [SLP= 1.00;DTP= 1.00]
00549 [LOS= 1 : HORTON]
00550 #####
00551 # Site 1 - Roof
00552 #####
00553 R0005:C00022-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00554 DESIGN STANDARDY 1.0 01:81-Roof .06 .019 No.Date 1.00 40.62 .955 .000
00555 [XIMP= 39;TIMP= .99]
00556 [SLP= .50;DTP= 1.00]
00557 [LOS= 1 : HORTON]
00558 #####
00559 R0005:C00023-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00560 ROUTE RESERVOIR -> 1.0 02:81-Roof .06 .019 No.Date 1.00 40.62 n/a .000
00561 out-> 1.0 01:81-Roof-Ov .06 .004 No.Date 1.11 40.62 n/a .000
00562 [MStoCds= 139;D= 02 nJ, ToCovVol= 1.000E+00 nJ, N-Ov= 0, ToTdsOv= 0.0 nJ]
00563 R0005:C00024-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00564 ADD HYD + 1.0 02:81-B1 .42 .053 No.Date 1.00 21.70 n/a .000
00565 + 1.0 02:81-Roof-Ov .06 .004 No.Date 1.11 40.62 n/a .000
00566 SUM= 1.0 02:81-Roof-Ov .00 .000 No.Date 0.00 0.00 n/a .000
00567 [XIMP= 39;TIMP= .99]
00568 R0005:C00025-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00569 ROUTE RESERVOIR -> 1.0 02:81TR1-IN .48 .056 No.Date 1.00 24.25 n/a .000
00570 out-> 1.0 01:81TR1-Out .48 .007 No.Date 1.19 24.25 n/a .000
00571 [MStoCds= 139;D= 02 nJ, ToCovVol= 1.000E+00 nJ, N-Ov= 0, ToTdsOv= 0.0 nJ]
00572 [XIMP= 39;TIMP= .99]
00573 #####
00574 # Site 2
00575 #####
00576 R0005:C00026-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00577 DESIGN STANDARDY 1.0 01:82-B3 .36 .043 No.Date 1.00 20.76 .488 .000
00578 [XIMP= 31;TIMP= .41]
00579 [SLP= 1.00;DTP= 1.00]
00580 [LOS= 1 : HORTON]
00581 #####
00582 # Site 2 - Roof
00583 #####
00584 R0005:C00027-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00585 DESIGN STANDARDY 1.0 01:82-Roof .09 .027 No.Date 1.00 40.61 n/a .000
00586 [XIMP= 39;TIMP= .99]
00587 [SLP= .50;DTP= 1.00]
00588 [LOS= 1 : HORTON]
00589 #####
00590 R0005:C00028-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00591 ROUTE RESERVOIR -> 1.0 02:82-Roof .09 .027 No.Date 1.00 40.61 n/a .000
00592 out-> 1.0 01:82-Roof-Ov .09 .004 No.Date 1.11 40.61 n/a .000
00593 [MStoCds= 1948;D= 02 nJ, ToCovVol= 1.000E+00 nJ, N-Ov= 0, ToTdsOv= 0.0 nJ]
00594 [XIMP= 39;TIMP= .99]
00595 R0005:C00029-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00596 ADD HYD + 1.0 02:82-B3 .36 .043 No.Date 1.00 20.76 n/a .000
00597 + 1.0 02:82-Roof-Ov .09 .004 No.Date 1.11 40.61 n/a .000
00598 SUM= 1.0 02:82-Roof-Ov .00 .000 No.Date 0.00 0.00 n/a .000
00599 [XIMP= 39;TIMP= .99]
00600 R0005:C00030-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00601 ROUTE RESERVOIR -> 1.0 02:81TR2-IN .45 .048 No.Date 1.00 24.87 n/a .000
00602 out-> 1.0 01:81TR2-Out .45 .008 No.Date 1.19 24.87 n/a .000
00603 [MStoCds= 4110;D= 02 nJ, ToCovVol= 1.000E+00 nJ, N-Ov= 0, ToTdsOv= 0.0 nJ]
00604 [XIMP= 39;TIMP= .99]
00605 R0005:C00031-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00606 ADD HYD + 1.0 02:81TR1-Out .48 .007 No.Date 1.19 24.25 n/a .000
00607 + 1.0 02:81TR2-Out .45 .008 No.Date 1.19 24.87 n/a .000
00608 SUM= 1.0 02:81TR1-Out .48 .007 No.Date 1.19 24.25 n/a .000
00609 [XIMP= 39;TIMP= .99]
00610 R0005:C00032-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00611 ADD HYD + 1.0 02:81TR2-Out .45 .008 No.Date 1.19 24.87 n/a .000
00612 + 1.0 02:81TR2-Out .45 .008 No.Date 1.19 24.87 n/a .000
00613 R0005:C00033-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00614 ADD HYD + 1.0 02:EXT2 .28 .012 No.Date 1.23 17.32 n/a .000
00615 + 1.0 02:EXT2 .01 .001 No.Date 1.00 10.48 n/a .000
00616 SUM= 1.0 02:EXT2 .28 .012 No.Date 1.23 17.32 n/a .000
00617 [XIMP= 39;TIMP= .99]
00618 R0005:C00034-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00619 ROUTE CHANNEL -> 1.0 02:11 1.23 .027 No.Date 1.24 22.72 n/a .000
00620 [RDT= 1.00] out-> 1.0 01:81 1.23 .026 No.Date 1.31 22.72 n/a .000
00621 [I/S/n= 143./ .394/.035]
00622 [Vmax= 293/Imax= 110]
00623 #####
00624 R0005:C00035-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00625 ADD HYD + 1.0 02:EXT3 .56 .020 No.Date 1.23 14.13 n/a .000
00626 + 1.0 02:EXT3 .31 .011 No.Date 1.21 13.59 n/a .000
00627 SUM= 1.0 02:EXT3 .56 .020 No.Date 1.23 14.13 n/a .000
00628 [XIMP= 39;TIMP= .99]
00629 R0005:C00036-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00630 ROUTE CHANNEL -> 1.0 02:12 5.00 .102 No.Date 1.14 16.24 n/a .000
00631 [RDT= 1.00] out-> 1.0 01:82 5.00 .102 No.Date 1.14 16.24 n/a .000
00632 [I/S/n= 73./ .425/.035]
00633 [Vmax= 413/Imax= 196]
00634 #####
00635 R0005:C00037-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00636 ADD HYD + 1.0 02:EXT4 .31 .011 No.Date 1.21 13.59 n/a .000
00637 + 1.0 02:EXT4 .53 .010 No.Date 1.14 13.59 n/a .000
00638 SUM= 1.0 02:EXT4 .31 .011 No.Date 1.21 13.59 n/a .000
00639 [XIMP= 39;TIMP= .99]
00640 R0005:C00038-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00641 ROUTE CHANNEL -> 1.0 02:13 5.31 .109 No.Date 1.14 16.09 n/a .000
00642 [RDT= 1.00] out-> 1.0 01:83 5.31 .108 No.Date 1.14 16.09 n/a .000
00643 [I/S/n= 92./ .274/.035]
00644 [Vmax= 423/Imax= 203]
00645 #####
00646 R0005:C00039-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00647 ADD HYD + 1.0 02:EXT5 .59 .014 No.Date 1.34 12.13 n/a .000
00648 + 1.0 02:EXT5 .90 .122 No.Date 1.15 15.69 n/a .000
00649 SUM= 1.0 02:EXT5 .59 .014 No.Date 1.34 12.13 n/a .000
00650 [XIMP= 39;TIMP= .99]
00651 R0005:C00040-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00652 ROUTE CHANNEL -> 1.0 02:14 5.90 .114 No.Date 1.15 15.69 n/a .000
00653 [RDT= 1.00] out-> 1.0 01:84 5.90 .114 No.Date 1.15 15.69 n/a .000
00654 [I/S/n= 251./ .190/.035]
00655 [Vmax= 323/Imax= 222]
00656 #####
00657 R0005:C00041-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00658 ADD HYD + 1.0 02:EXT6 .86 .026 No.Date 1.42 17.32 n/a .000
00659 + 1.0 02:EXT6 .47 .019 No.Date 1.23 15.94 n/a .000
00660 SUM= 1.0 02:EXT6 .86 .026 No.Date 1.42 17.32 n/a .000
00661 [XIMP= 39;TIMP= .99]
00662 R0005:C00042-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00663 ROUTE CHANNEL -> 1.0 02:15 7.24 .149 No.Date 1.52 15.90 n/a .000
00664 [RDT= 1.00] out-> 1.0 01:85 7.24 .146 No.Date 1.59 15.90 n/a .000
00665 [I/S/n= 77./ .776/.035]
00666 [Vmax= 521/Imax= 211]
00667 #####
00668 R0005:C00043-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00669 ADD HYD + 1.0 02:Pre1_1 .80 .021 No.Date 1.21 10.11 n/a .000
00670 + 1.0 02:Pre1_1 .01 .001 No.Date 1.00 11.68 n/a .000
00671 SUM= 1.0 02:Pre1_1 .80 .021 No.Date 1.21 10.11 n/a .000
00672 [XIMP= 39;TIMP= .99]
00673 R0005:C00044-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00674 ROUTE CHANNEL -> 1.0 02:16 1.10 .028 No.Date 1.24 10.51 n/a .000
00675 [RDT= 1.00] out-> 1.0 01:86 1.10 .028 No.Date 1.24 10.51 n/a .000
00676 [I/S/n= 92./ .274/.035]
00677 [Vmax= 492/Imax= 016]
00678 #####
00679 R0005:C00045-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00680 ROUTE CHANNEL -> 1.0 02:17 1.44 .010 No.Date 1.29 10.11 n/a .000
00681 [RDT= 1.00] out-> 1.0 01:87 1.44 .010 No.Date 1.32 10.11 n/a .000
00682 [I/S/n= 129./ 1.576/.035]
00683 [Vmax= 797/Imax= 003]
00684 #####
00685 R0005:C00046-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00686 ADD HYD + 1.0 02:EXT7 .81 .028 No.Date 1.24 10.36 n/a .000
00687 + 1.0 02:EXT7 .01 .001 No.Date 1.00 13.07 n/a .000
00688 SUM= 1.0 02:EXT7 .81 .028 No.Date 1.24 10.36 n/a .000
00689 [XIMP= 39;TIMP= .99]
00690 R0005:C00047-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00691 ROUTE CHANNEL -> 1.0 02:18 1.00 .028 No.Date 1.24 10.51 n/a .000
00692 [RDT= 1.00] out-> 1.0 01:88 1.00 .028 No.Date 1.24 10.51 n/a .000
00693 [I/S/n= 79./ .522/.035]
00694 [Vmax= 423/Imax= 021]
00695 #####
00696 R0005:C00048-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00697 ADD HYD + 1.0 02:EXT8 .83 .024 No.Date 1.31 13.59 n/a .000
00698 + 1.0 02:EXT8 .74 .014 No.Date 1.29 10.51 n/a .000
00699 SUM= 1.0 02:EXT8 .83 .024 No.Date 1.31 13.59 n/a .000
00700 [XIMP= 39;TIMP= .99]
00701 R0005:C00049-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00702 ROUTE CHANNEL -> 1.0 02:19 1.53 .037 No.Date 1.28 10.56 n/a .000
00703 [RDT= 1.00] out-> 1.0 01:89 1.53 .037 No.Date 1.29 10.56 n/a .000
00704 [I/S/n= 29./ .887/.035]
00705 [Vmax= .543/Imax= 023]
00706 #####
00707 R0005:C00050-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00708 ADD HYD + 1.0 02:EXT9 3.57 .093 No.Date 1.36 12.13 n/a .000
00709 + 1.0 02:EXT9 1.53 .037 No.Date 1.29 10.44 n/a .000
00710 SUM= 1.0 02:EXT9 3.57 .093 No.Date 1.36 12.13 n/a .000
00711 [XIMP= 39;TIMP= .99]
00712 R0005:C00051-----Dtn-ID:INHYD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvnm-R.C-----DWfcm
00713 ROUTE PIPE -> 1.0 02:28 13.18 .146 No.Date 1.52 8.27 n/a .000
00714 [RDT= 1.00] out-> 1.0 01:01 out 13.18 .146 No.Date 1.53 8.27 n/a .000
00715 [I/S/n= 8./ .010/.013]
00716 [Vmax= .307/Imax= .082]
00717 [Dine= .53/Dused= 1.04]
00718 #####
00719 # END OF RUN : 9
00720 RUN:COMMAND#
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007211 R0010:C00001-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007212 # START
007223 [TZERO = .00 hrs on 0]
007224 [NETOUT= 2 (1=Imperial, 2=metric output)]
007225 [NETFORM= 1]
007226 [NRUN = 0010]
007227 *****
007228 # SWHYMO / INPUT DATA FILE
007229 *****
007300 # Project Name : [5923 Ottawa St]
007310 # Project Number: [P2710(601)]
007320 # Date : [2025 April 28]
007330 # Modeller : [NM]
007340 # Company : JFSA Canada Inc.
007350 # License # : 2549217
007360 *****
007370 # Model developed to simulate runoff from subcatchments under post developments from the DESIGN STANDBY CDM
007380 *****
007390 R0010:C00002-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007400 # READ STORM
007410 File name = STORM.001
007420 Comment = CHICAGO STORM 10 Year, 3 Hours
007430 [SDT=10.00;SDUR= 3.00;PTOT= 49.50]
007440 *****
007450 R0010:C00003-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007460 # DEFAULT VALUES
007470 File name = C:\Temp\20240327-PostDev\Ottawa.val
007480 ICASEdv = 1 (read and print data)
007490 FileTitle File comment: (Parameters for City of Ottawa Projects)
007500 THE FOLLOWING PARAMETERS ARE USED IN THE DESIGN STANDBY CDM
007510 Horton's infiltration equation parameters:
007520 [Fw= 76.20 mm/hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007530 Parameters for PERVIOUS surfaces in STANDBY:
007540 [Iagw= 4.67 mm] [LDP=40.00 mm] [HWS= .250]
007550 Parameters for IMPVIOUS surfaces in STANDBY:
007560 [Ialpm= 1.57 mm] [CL1= 1.50] [MHW= .013]
007570 Parameters used in NAWBY:
007580 [Ia= 4.67 mm] [N= 3.00]
007590 Average monthly Pan Evaporation data in (mm)
007600 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
007610 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
007620 Average monthly Potential Evapotranspiration in (mm)
007630 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
007640 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
007650 *****
007660 # EXT1
007670 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007680 R0010:C00004-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007690 CALIB NAWBY 1.0 01:EXT1 3.21 .088 NoDate 1:54 18.55 .375 .000
007700 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007710 # EXT2
007720 *****
007730 R0010:C00005-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007740 CALIB NAWBY 1.0 01:EXT2 .28 .016 NoDate 1:23 22.42 .483 .000
007750 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007760 # EXT3
007770 *****
007780 R0010:C00006-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007790 CALIB NAWBY 1.0 01:EXT3 .56 .027 NoDate 1:23 18.55 .375 .000
007800 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007810 # EXT4
007820 *****
007830 R0010:C00007-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007840 CALIB NAWBY 1.0 01:EXT4 .31 .015 NoDate 1:20 17.89 .361 .000
007850 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007860 # EXT5
007870 *****
007880 R0010:C00008-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007890 CALIB NAWBY 1.0 01:EXT5 .86 .035 NoDate 1:41 22.42 .453 .000
007900 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007910 # EXT6
007920 *****
007930 R0010:C00009-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007940 CALIB NAWBY 1.0 01:EXT6 .07 .005 NoDate 1:20 17.89 .361 .000
007950 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
007960 # EXT7
007970 *****
007980 R0010:C00010-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
007990 CALIB NAWBY 1.0 01:EXT7 .01 .001 NoDate 1:00 17.25 .348 .000
008000 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008010 # EXT8
008020 *****
008030 R0010:C00011-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008040 CALIB NAWBY 1.0 01:EXT8 .83 .032 NoDate 1:31 17.89 .361 .000
008050 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008060 # EXT9
008070 *****
008080 R0010:C00012-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008090 CALIB NAWBY 1.0 01:EXT9 3.57 .111 NoDate 1:36 16.08 .325 .000
008100 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008110 # EXT10
008120 *****
008130 R0010:C00013-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008140 CALIB NAWBY 1.0 01:EXT10 .20 .006 NoDate 1:31 13.53 .273 .000
008150 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008160 # EXT11
008170 *****
008180 R0010:C00014-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008190 CALIB NAWBY 1.0 01:EXT11 .01 .001 NoDate 1:00 17.25 .348 .000
008200 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008210 # EXT12
008220 *****
008230 R0010:C00015-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008240 CALIB NAWBY 1.0 01:EXT12 .01 .001 NoDate 1:00 17.25 .348 .000
008250 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008260 # EXT13
008270 *****
008280 R0010:C00016-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008290 CALIB NAWBY 1.0 01:EXT13 .01 .001 NoDate 1:00 17.25 .348 .000
008300 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008310 # EXT14
008320 *****
008330 R0010:C00017-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008340 CALIB NAWBY 1.0 01:EXT14 .01 .001 NoDate 1:00 17.25 .348 .000
008350 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008360 # EXT15
008370 *****
008380 R0010:C00018-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008390 CALIB NAWBY 1.0 01:EXT15 .01 .001 NoDate 1:00 17.25 .348 .000
008400 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008410 # EXT16
008420 *****
008430 R0010:C00019-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008440 CALIB NAWBY 1.0 01:EXT16 .01 .001 NoDate 1:00 17.25 .348 .000
008450 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008460 # EXT17
008470 *****
008480 R0010:C00020-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008490 CALIB NAWBY 1.0 01:EXT17 .01 .001 NoDate 1:00 17.25 .348 .000
008500 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008510 # EXT18
008520 *****
008530 R0010:C00021-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008540 CALIB NAWBY 1.0 01:EXT18 .01 .001 NoDate 1:00 17.25 .348 .000
008550 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008560 # EXT19
008570 *****
008580 R0010:C00022-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008590 CALIB NAWBY 1.0 01:EXT19 .01 .001 NoDate 1:00 17.25 .348 .000
008600 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008610 # EXT20
008620 *****
008630 R0010:C00023-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008640 CALIB NAWBY 1.0 01:EXT20 .01 .001 NoDate 1:00 17.25 .348 .000
008650 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008660 # EXT21
008670 *****
008680 R0010:C00024-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008690 CALIB NAWBY 1.0 01:EXT21 .01 .001 NoDate 1:00 17.25 .348 .000
008700 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008710 # EXT22
008720 *****
008730 R0010:C00025-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008740 CALIB NAWBY 1.0 01:EXT22 .01 .001 NoDate 1:00 17.25 .348 .000
008750 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008760 # EXT23
008770 *****
008780 R0010:C00026-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008790 CALIB NAWBY 1.0 01:EXT23 .01 .001 NoDate 1:00 17.25 .348 .000
008800 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008810 # EXT24
008820 *****
008830 R0010:C00027-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008840 CALIB NAWBY 1.0 01:EXT24 .01 .001 NoDate 1:00 17.25 .348 .000
008850 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008860 # EXT25
008870 *****
008880 R0010:C00028-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008890 CALIB NAWBY 1.0 01:EXT25 .01 .001 NoDate 1:00 17.25 .348 .000
008900 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008910 # EXT26
008920 *****
008930 R0010:C00029-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008940 CALIB NAWBY 1.0 01:EXT26 .01 .001 NoDate 1:00 17.25 .348 .000
008950 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
008960 # EXT27
008970 *****
008980 R0010:C00030-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
008990 CALIB NAWBY 1.0 01:EXT27 .01 .001 NoDate 1:00 17.25 .348 .000
009000 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009010 # EXT28
009020 *****
009030 R0010:C00031-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009040 CALIB NAWBY 1.0 01:EXT28 .01 .001 NoDate 1:00 17.25 .348 .000
009050 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009060 # EXT29
009070 *****
009080 R0010:C00032-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009090 CALIB NAWBY 1.0 01:EXT29 .01 .001 NoDate 1:00 17.25 .348 .000
009100 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009110 # EXT30
009120 *****
009130 R0010:C00033-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009140 CALIB NAWBY 1.0 01:EXT30 .01 .001 NoDate 1:00 17.25 .348 .000
009150 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009160 # EXT31
009170 *****
009180 R0010:C00034-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009190 CALIB NAWBY 1.0 01:EXT31 .01 .001 NoDate 1:00 17.25 .348 .000
009200 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009210 # EXT32
009220 *****
009230 R0010:C00035-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009240 CALIB NAWBY 1.0 01:EXT32 .01 .001 NoDate 1:00 17.25 .348 .000
009250 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009260 # EXT33
009270 *****
009280 R0010:C00036-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009290 CALIB NAWBY 1.0 01:EXT33 .01 .001 NoDate 1:00 17.25 .348 .000
009300 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009310 # EXT34
009320 *****
009330 R0010:C00037-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009340 CALIB NAWBY 1.0 01:EXT34 .01 .001 NoDate 1:00 17.25 .348 .000
009350 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009360 # EXT35
009370 *****
009380 R0010:C00038-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009390 CALIB NAWBY 1.0 01:EXT35 .01 .001 NoDate 1:00 17.25 .348 .000
009400 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009410 # EXT36
009420 *****
009430 R0010:C00039-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009440 CALIB NAWBY 1.0 01:EXT36 .01 .001 NoDate 1:00 17.25 .348 .000
009450 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009460 # EXT37
009470 *****
009480 R0010:C00040-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009490 CALIB NAWBY 1.0 01:EXT37 .01 .001 NoDate 1:00 17.25 .348 .000
009500 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009510 # EXT38
009520 *****
009530 R0010:C00041-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009540 CALIB NAWBY 1.0 01:EXT38 .01 .001 NoDate 1:00 17.25 .348 .000
009550 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009560 # EXT39
009570 *****
009580 R0010:C00042-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009590 CALIB NAWBY 1.0 01:EXT39 .01 .001 NoDate 1:00 17.25 .348 .000
009600 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009610 # EXT40
009620 *****
009630 R0010:C00043-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009640 CALIB NAWBY 1.0 01:EXT40 .01 .001 NoDate 1:00 17.25 .348 .000
009650 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009660 # EXT41
009670 *****
009680 R0010:C00044-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009690 CALIB NAWBY 1.0 01:EXT41 .01 .001 NoDate 1:00 17.25 .348 .000
009700 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009710 # EXT42
009720 *****
009730 R0010:C00045-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009740 CALIB NAWBY 1.0 01:EXT42 .01 .001 NoDate 1:00 17.25 .348 .000
009750 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009760 # EXT43
009770 *****
009780 R0010:C00046-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009790 CALIB NAWBY 1.0 01:EXT43 .01 .001 NoDate 1:00 17.25 .348 .000
009800 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009810 # EXT44
009820 *****
009830 R0010:C00047-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009840 CALIB NAWBY 1.0 01:EXT44 .01 .001 NoDate 1:00 17.25 .348 .000
009850 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009860 # EXT45
009870 *****
009880 R0010:C00048-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009890 CALIB NAWBY 1.0 01:EXT45 .01 .001 NoDate 1:00 17.25 .348 .000
009900 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009910 # EXT46
009920 *****
009930 R0010:C00049-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009940 CALIB NAWBY 1.0 01:EXT46 .01 .001 NoDate 1:00 17.25 .348 .000
009950 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
009960 # EXT47
009970 *****
009980 R0010:C00050-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
009990 CALIB NAWBY 1.0 01:EXT47 .01 .001 NoDate 1:00 17.25 .348 .000
010000 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010010 # EXT48
010020 *****
010030 R0010:C00051-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010040 CALIB NAWBY 1.0 01:EXT48 .01 .001 NoDate 1:00 17.25 .348 .000
010050 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010060 # EXT49
010070 *****
010080 R0010:C00052-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010090 CALIB NAWBY 1.0 01:EXT49 .01 .001 NoDate 1:00 17.25 .348 .000
010100 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010110 # EXT50
010120 *****
010130 R0010:C00053-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010140 CALIB NAWBY 1.0 01:EXT50 .01 .001 NoDate 1:00 17.25 .348 .000
010150 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010160 # EXT51
010170 *****
010180 R0010:C00054-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010190 CALIB NAWBY 1.0 01:EXT51 .01 .001 NoDate 1:00 17.25 .348 .000
010200 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010210 # EXT52
010220 *****
010230 R0010:C00055-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010240 CALIB NAWBY 1.0 01:EXT52 .01 .001 NoDate 1:00 17.25 .348 .000
010250 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010260 # EXT53
010270 *****
010280 R0010:C00056-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010290 CALIB NAWBY 1.0 01:EXT53 .01 .001 NoDate 1:00 17.25 .348 .000
010300 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010310 # EXT54
010320 *****
010330 R0010:C00057-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010340 CALIB NAWBY 1.0 01:EXT54 .01 .001 NoDate 1:00 17.25 .348 .000
010350 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010360 # EXT55
010370 *****
010380 R0010:C00058-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010390 CALIB NAWBY 1.0 01:EXT55 .01 .001 NoDate 1:00 17.25 .348 .000
010400 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010410 # EXT56
010420 *****
010430 R0010:C00059-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010440 CALIB NAWBY 1.0 01:EXT56 .01 .001 NoDate 1:00 17.25 .348 .000
010450 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010460 # EXT57
010470 *****
010480 R0010:C00060-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010490 CALIB NAWBY 1.0 01:EXT57 .01 .001 NoDate 1:00 17.25 .348 .000
010500 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010510 # EXT58
010520 *****
010530 R0010:C00061-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010540 CALIB NAWBY 1.0 01:EXT58 .01 .001 NoDate 1:00 17.25 .348 .000
010550 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010560 # EXT59
010570 *****
010580 R0010:C00062-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010590 CALIB NAWBY 1.0 01:EXT59 .01 .001 NoDate 1:00 17.25 .348 .000
010600 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010610 # EXT60
010620 *****
010630 R0010:C00063-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010640 CALIB NAWBY 1.0 01:EXT60 .01 .001 NoDate 1:00 17.25 .348 .000
010650 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010660 # EXT61
010670 *****
010680 R0010:C00064-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010690 CALIB NAWBY 1.0 01:EXT61 .01 .001 NoDate 1:00 17.25 .348 .000
010700 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010710 # EXT62
010720 *****
010730 R0010:C00065-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010740 CALIB NAWBY 1.0 01:EXT62 .01 .001 NoDate 1:00 17.25 .348 .000
010750 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010760 # EXT63
010770 *****
010780 R0010:C00066-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010790 CALIB NAWBY 1.0 01:EXT63 .01 .001 NoDate 1:00 17.25 .348 .000
010800 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010810 # EXT64
010820 *****
010830 R0010:C00067-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010840 CALIB NAWBY 1.0 01:EXT64 .01 .001 NoDate 1:00 17.25 .348 .000
010850 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010860 # EXT65
010870 *****
010880 R0010:C00068-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010890 CALIB NAWBY 1.0 01:EXT65 .01 .001 NoDate 1:00 17.25 .348 .000
010900 [COW= 4.14 /hr] [Fw1]= 20 mm/hr] [COW= 4.14 /hr] [Fw= .00 mm]
010910 # EXT66
010920 *****
010930 R0010:C00069-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvmm-R.C-----DWfcs
010940 CALIB NAWBY 1.0 01:EXT66 .01 .001 NoDate 1:00 17.25 .348 .000
010950 [COW= 4.14 /
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01081 [IaIpm= 1.57 mm] [CLi=1.50] [MNI= .013]
01082 Parameters used in NASHVD
01083 [Ia= 4.67 mm] [N= 3.00]
01084 Average monthly Fan Evaporation data in (mm)
01085 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
01086 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
01087 Average monthly Potential Evapotranspiration in (mm)
01088 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
01089 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
01090 *****
01091 # EXT1
01092 [Cm= 85.0; N= 3.00; Tpe= .33]
01093 *****
01094 ROUTES:R0025:C00004-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01095 CALIB NASHVD 1.0 01:EXT1 3.21 .118 No_date 1:22 24.50 .421 .000
01096 [Cm= 85.0; N= 3.00; Tpe= .33]
01097 *****
01098 # EXT2
01099 *****
01100 ROUTES:R0025:C00005-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01101 CALIB NASHVD 1.0 01:EXT2 .28 .022 No_date 1:22 29.15 .421 .000
01102 [Cm= 85.0; N= 3.00; Tpe= .33]
01103 *****
01104 # EXT3
01105 *****
01106 ROUTES:R0025:C00006-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01107 CALIB NASHVD 1.0 01:EXT3 .56 .036 No_date 1:22 24.50 .421 .000
01108 [Cm= 85.0; N= 3.00; Tpe= .33]
01109 *****
01110 # EXT4
01111 *****
01112 ROUTES:R0025:C00007-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01113 CALIB NASHVD 1.0 01:EXT4 .31 .020 No_date 1:20 23.69 .407 .000
01114 [Cm= 79.0; N= 3.00; Tpe= .29]
01115 *****
01116 # EXT5
01117 *****
01118 ROUTES:R0025:C00008-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01119 CALIB NASHVD 1.0 01:EXT5 .59 .026 No_date 1:33 21.44 .368 .000
01120 [Cm= 76.0; N= 3.00; Tpe= .45]
01121 *****
01122 # EXT6
01123 *****
01124 ROUTES:R0025:C00009-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01125 CALIB NASHVD 1.0 01:EXT6 .86 .046 No_date 1:40 29.15 .501 .000
01126 [Cm= 85.0; N= 3.00; Tpe= .42]
01127 *****
01128 # EXT7
01129 *****
01130 ROUTES:R0025:C00010-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01131 CALIB NASHVD 1.0 01:EXT7 3.57 .151 No_date 1:35 21.44 .368 .000
01132 [Cm= 76.0; N= 3.00; Tpe= .48]
01133 *****
01134 # EXT8
01135 *****
01136 ROUTES:R0025:C00011-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01137 CALIB NASHVD 1.0 01:EXT8 .83 .043 No_date 1:30 23.69 .407 .000
01138 [Cm= 79.0; N= 3.00; Tpe= .29]
01139 *****
01140 # EXT9
01141 *****
01142 ROUTES:R0025:C00012-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01143 CALIB NASHVD 1.0 01:EXT9 3.57 .151 No_date 1:35 21.44 .368 .000
01144 [Cm= 76.0; N= 3.00; Tpe= .48]
01145 *****
01146 # EXT10
01147 *****
01148 ROUTES:R0025:C00013-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01149 CALIB NASHVD 1.0 01:EXT10 .01 .002 No_date 1:00 22.90 .393 .000
01150 [Cm= 76.0; N= 3.00; Tpe= .04]
01151 *****
01152 # EXT11
01153 *****
01154 ROUTES:R0025:C00014-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01155 CALIB NASHVD 1.0 01:EXT10 .20 .008 No_date 1:31 18.23 .313 .000
01156 [Cm= 71.0; N= 3.00; Tpe= .09]
01157 *****
01158 # Pre1_1
01159 *****
01160 ROUTES:R0025:C00015-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01161 CALIB NASHVD 1.0 01:Pre1_1 .00 .002 No_date 1:00 22.90 .393 .000
01162 [Cm= 72.0; N= 3.00; Tpe= .03]
01163 *****
01164 # Pre2_1
01165 *****
01166 ROUTES:R0025:C00016-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01167 CALIB NASHVD 1.0 01:Pre2_1 .00 .000 No_date 1:00 22.97 .393 .000
01168 [Cm= 71.0; N= 3.00; Tpe= .09]
01169 *****
01170 # Pre1_2
01171 *****
01172 ROUTES:R0025:C00017-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01173 CALIB NASHVD 1.0 01:Pre1_2 .44 .018 No_date 1:27 18.23 .313 .000
01174 [Cm= 71.0; N= 3.00; Tpe= .38]
01175 *****
01176 # Pre2_2
01177 *****
01178 ROUTES:R0025:C00018-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01179 CALIB NASHVD 1.0 01:Pre2_2 .01 .002 No_date 1:00 20.75 .356 .000
01180 [Cm= 75.0; N= 3.00; Tpe= .03]
01181 *****
01182 # Pre10_1
01183 *****
01184 ROUTES:R0025:C00019-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01185 CALIB NASHVD 1.0 01:Pre10_1 .80 .040 No_date 1:10 18.23 .313 .000
01186 [Cm= 71.0; N= 3.00; Tpe= .09]
01187 *****
01188 # Pre11_1
01189 *****
01190 ROUTES:R0025:C00020-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01191 CALIB NASHVD 1.0 01:Pre11_1 .00 .005 No_date 1:00 22.90 .393 .000
01192 [Cm= 78.0; N= 3.00; Tpe= .21]
01193 *****
01194 # Site 1
01195 *****
01196 ROUTES:R0025:C00021-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01197 DESION STANDHYD 1.0 01:Site-1 .42 .093 No_date 1:00 34.53 .593 .000
01198 [XMP= 31.7TMP= 41]
01199 [SLP= 1.00DT= 1.00]
01200 [LOGS= 1; HORTONS]
01201 # Site 1 - Roof
01202 *****
01203 ROUTES:R0025:C00022-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01204 DESION STANDHYD 1.0 01:Site-Roof .06 .026 No_date 1:00 56.27 .966 .000
01205 [XMP= 99.7TMP= 99]
01206 [SLP= 50.0DT= 1.00]
01207 *****
01208 ROUTES:R0025:C00023-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01209 ROUTE RESERVOIR -> 1.0 01:Site-Roof .06 .026 No_date 1:00 56.27 n/a .000
01210 overflow <= 1.0 01:Site-Roof-Ov .06 .006 No_date 1:11 56.27 n/a .000
01211 overflow <= 1.0 01:Site-Roof-Ov .06 .000 No_date 0:00 .00 n/a .000
01212 (MetCoSeed= 1238E-02 n3, TotDurVol= 0.000E+00 n3, N-Ov= 0, TotDurOv= 0.0 hrs)
01213 ROUTES:R0025:C00024-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01214 ADD HYD + 1.0 01:Site-1 .42 .093 No_date 1:00 34.53 n/a .000
01215 + 1.0 01:Site-Roof-Ov .06 .006 No_date 1:11 56.27 n/a .000
01216 + 1.0 01:Site-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
01217 SUM 1.0 01:Site1-IN .48 .098 No_date 1:00 37.47 n/a .000
01218 ROUTES:R0025:C00025-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01219 ROUTE RESERVOIR -> 1.0 01:Site1-IN .48 .098 No_date 1:00 37.47 n/a .000
01220 overflow <= 1.0 01:Site1-IN .48 .008 No_date 1:53 37.47 n/a .000
01221 overflow <= 1.0 01:Site1-Over .00 .000 No_date 0:00 .00 n/a .000
01222 (MetCoSeed= 1238E-02 n3, TotDurVol= 0.000E+00 n3, N-Ov= 0, TotDurOv= 0.0 hrs)
01223 *****
01224 # Site 2
01225 *****
01226 ROUTES:R0025:C00026-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01227 DESION STANDHYD 1.0 01:Site-2 .36 .076 No_date 1:00 33.45 .574 .000
01228 [XMP= 31.7TMP= 41]
01229 [SLP= 1.00DT= 1.00]
01230 [LOGS= 1; HORTONS]
01231 # Site 2 - Roof
01232 *****
01233 ROUTES:R0025:C00027-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01234 DESION STANDHYD 1.0 01:Site-Roof .09 .037 No_date 1:00 56.28 .967 .000
01235 [XMP= 99.7TMP= 99]
01236 [SLP= 50.0DT= 1.00]
01237 *****
01238 # Site 2 - Roof
01239 *****
01240 ROUTES:R0025:C00028-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01241 ROUTE RESERVOIR -> 1.0 01:Site-Roof .09 .037 No_date 1:00 56.28 n/a .000
01242 over <= 1.0 01:Site-Roof-Ov .09 .011 No_date 1:11 56.28 n/a .000
01243 overflow <= 1.0 01:Site-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
01244 (MetCoSeed= 2744E-02 n3, TotDurVol= 0.000E+00 n3, N-Ov= 0, TotDurOv= 0.0 hrs)
01245 ROUTES:R0025:C00029-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01246 ADD HYD + 1.0 01:Site-2 .36 .076 No_date 1:00 33.45 n/a .000
01247 + 1.0 01:Site-Roof-Ov .06 .009 No_date 1:11 56.28 n/a .000
01248 + 1.0 01:Site-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
01249 SUM 1.0 01:Site2-IN .45 .084 No_date 1:00 38.17 n/a .000
01250 ROUTES:R0025:C00030-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01251 ROUTE RESERVOIR -> 1.0 01:Site2-IN .45 .084 No_date 1:00 38.17 n/a .000
01252 overflow <= 1.0 01:Site2-IN .45 .008 No_date 1:53 37.47 n/a .000
01253 overflow <= 1.0 01:Site2-Over .00 .000 No_date 0:00 .00 n/a .000
01254 (MetCoSeed= 1808E-01 n3, TotDurVol= 0.000E+00 n3, N-Ov= 0, TotDurOv= 0.0 hrs)
01255 ROUTES:R0025:C00031-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01256 ADD HYD + 1.0 01:Site1-Over .48 .008 No_date 1:53 37.47 n/a .000
01257 + 1.0 01:Site1-Over .00 .000 No_date 0:00 .00 n/a .000
01258 SUM 1.0 01:Site1 .48 .008 No_date 1:53 37.47 n/a .000
01259 ROUTES:R0025:C00032-----DtnIn-ID:INVD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
01260 ADD HYD 1.0 01:Site2-Out .45 .009 No_date 1:54 38.17 n/a .000
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01441 *****
01442 R0505:C00009-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01443 CALIB NASHYD 1.0 01:EXT5 .59 .032 No_date 1:32 25.77 .398 .000
01444 [Cm= 76.0i N= 3.00i Tps= .45]
01445 *****
01446 # EXT5
01447 *****
01448 R0505:C00009-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01449 CALIB NASHYD 1.0 01:EXT6 .86 .055 No_date 1:40 34.45 .532 .000
01450 [Cm= 85.0i N= 3.00i Tps= .42]
01451 *****
01452 # EXT7
01453 *****
01454 R0505:C00010-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01455 CALIB NASHYD 1.0 01:EXT7 .01 .002 No_date 1:00 27.43 .423 .000
01456 [Cm= 83.0i N= 3.00i Tps= .32]
01457 *****
01458 # EXT8
01459 *****
01460 R0505:C00011-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01461 CALIB NASHYD 1.0 01:EXT8 .83 .052 No_date 1:30 28.33 .437 .000
01462 [Cm= 79.0i N= 3.00i Tps= .42]
01463 *****
01464 # EXT9
01465 *****
01466 R0505:C00012-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01467 CALIB NASHYD 1.0 01:EXT8 3.57 .183 No_date 1:35 25.77 .398 .000
01468 [Cm= 76.0i N= 3.00i Tps= .48]
01469 *****
01470 # EXT9a
01471 *****
01472 R0505:C00013-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01473 CALIB NASHYD 1.0 01:EXT9a .01 .002 No_date 1:00 27.43 .423 .000
01474 [Cm= 76.0i N= 3.00i Tps= .04]
01475 *****
01476 # EXT10
01477 *****
01478 R0505:C00014-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01479 CALIB NASHYD 1.0 01:EXT10 .20 .010 No_date 1:30 22.06 .340 .000
01480 [Cm= 72.0i N= 3.00i Tps= .03]
01481 *****
01482 # Pres1
01483 *****
01484 R0505:C00015-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01485 CALIB NASHYD 1.0 01:Pres1 .01 .002 No_date 1:00 27.43 .381 .000
01486 [Cm= 72.0i N= 3.00i Tps= .03]
01487 *****
01488 # Pres2
01489 *****
01490 R0505:C00016-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01491 CALIB NASHYD 1.0 01:Pres2 .00 .000 No_date 1:00 27.40 .423 .000
01492 [Cm= 71.0i N= 3.00i Tps= .38]
01493 *****
01494 # Pres1
01495 *****
01496 R0505:C00017-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01497 CALIB NASHYD 1.0 01:Pres1 1.44 .022 No_date 1:27 22.07 .340 .000
01498 [Cm= 71.0i N= 3.00i Tps= .38]
01499 *****
01500 # Pres2
01501 *****
01502 R0505:C00018-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01503 CALIB NASHYD 1.0 01:Pres2 .01 .003 No_date 1:00 24.97 .385 .000
01504 [Cm= 75.0i N= 3.00i Tps= .03]
01505 *****
01506 # Pres1
01507 *****
01508 R0505:C00019-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01509 CALIB NASHYD 1.0 01:Pres1 1.80 .048 No_date 1:20 22.07 .340 .000
01510 [Cm= 71.0i N= 3.00i Tps= .38]
01511 *****
01512 # Pres1
01513 *****
01514 R0505:C00020-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01515 CALIB NASHYD 1.0 01:Pres1 .01 .006 No_date 1:37 27.44 .423 .000
01516 [Cm= 78.0i N= 3.00i Tps= .21]
01517 *****
01518 # Site 1
01519 *****
01520 R0505:C00021-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01521 DESION STANDHYD 1.0 01:Site1 .42 .107 No_date 1:00 40.11 .619 .000
01522 [XfM= 31.7fMPE= .44]
01523 [SLP=1.00DT= 1.00]
01524 [LOGS= 1 : HORTONS]
01525 *****
01526 # Site 1 - Roof
01527 *****
01528 R0505:C00022-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01529 DESION STANDHYD 1.0 01:Site1-Roof .06 .029 No_date 1:00 62.84 .970 .000
01530 [XfM= 99.7fMPE= .99]
01531 [SLP= .50DT= 1.00]
01532 [LOGS= 1 : HORTONS]
01533 *****
01534 R0505:C00023-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01535 ROUTE RESERVOIR -> 1.0 01:Site1-Roof .06 .029 No_date 1:00 62.84 n/a .000
01536 out <= 1.0 01:Site1-Roof-Over .06 .007 No_date 1:11 62.84 n/a .000
01537 overflow <= 1.0 01:Site1-Roof-Over .00 .000 No_date 0:00 .00 n/a .000
01538 [MxdtOfs= 2.178E-01 mJ, TotOfVol= 0.000E+00 mJ, N-Of= 0, TotOfOrv= 0_hrs]
01539 *****
01540 R0505:C00024-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01541 ADD HYD + 1.0 01:Site1-R1 .42 .107 No_date 1:00 40.11 n/a .000
01542 + 1.0 01:Site1-Roof-Over .06 .007 No_date 1:11 62.84 n/a .000
01543 + 1.0 01:Site1-Roof-Over .00 .000 No_date 0:00 .00 n/a .000
01544 SUM= 1.0 01:Site1-R1 .48 .113 No_date 1:00 43.18 n/a .000
01545 *****
01546 R0505:C00025-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01547 ROUTE RESERVOIR -> 1.0 01:SITE1-IN .48 .113 No_date 1:00 43.18 n/a .000
01548 out <= 1.0 01:SITE1-Out .48 .008 No_date 1:57 43.18 n/a .000
01549 overflow <= 1.0 01:SITE1-Over .00 .000 No_date 0:00 .00 n/a .000
01550 [MxdtOfs= 2.178E-01 mJ, TotOfVol= 0.000E+00 mJ, N-Of= 0, TotOfOrv= 0_hrs]
01551 *****
01552 R0505:C00026-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01553 DESION STANDHYD 1.0 01:Site2 .36 .089 No_date 1:00 38.93 .601 .000
01554 [XfM= 31.7fMPE= .41]
01555 [SLP=1.00DT= 1.00]
01556 [LOGS= 1 : HORTONS]
01557 *****
01558 # Site 2 - Roof
01559 *****
01560 R0505:C00027-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01561 DESION STANDHYD 1.0 01:Site2-Roof .09 .041 No_date 1:00 62.84 .970 .000
01562 [SLP= .99fMPE= .99]
01563 [LOGS= 1 : HORTONS]
01564 *****
01565 R0505:C00028-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01566 ROUTE RESERVOIR -> 1.0 01:Site2-Roof .09 .041 No_date 1:00 62.84 n/a .000
01567 out <= 1.0 01:Site2-Roof-Over .06 .007 No_date 1:11 62.84 n/a .000
01568 overflow <= 1.0 01:Site2-Roof-Over .00 .000 No_date 0:00 .00 n/a .000
01569 [MxdtOfs= 3.056E-02 mJ, TotOfVol= 0.000E+00 mJ, N-Of= 0, TotOfOrv= 0_hrs]
01570 *****
01571 R0505:C00029-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01572 ADD HYD + 1.0 01:Site2-R3 .36 .089 No_date 1:00 38.93 n/a .000
01573 + 1.0 01:Site2-Roof-Over .09 .010 No_date 1:11 62.84 n/a .000
01574 + 1.0 01:Site2-Roof-Over .00 .000 No_date 0:00 .00 n/a .000
01575 SUM= 1.0 01:SITE2-IN .45 .097 No_date 1:00 43.87 n/a .000
01576 *****
01577 R0505:C00030-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01578 ROUTE RESERVOIR -> 1.0 01:SITE2-IN .45 .097 No_date 1:00 43.87 n/a .000
01579 out <= 1.0 01:SITE2-Out .45 .009 No_date 1:58 43.87 n/a .000
01580 overflow <= 1.0 01:SITE2-Over .00 .000 No_date 0:00 .00 n/a .000
01581 [MxdtOfs= 1.288E-01 mJ, TotOfVol= 0.000E+00 mJ, N-Of= 0, TotOfOrv= 0_hrs]
01582 *****
01583 R0505:C00031-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01584 ADD HYD + 1.0 01:SITE1-Out .48 .008 No_date 1:57 43.18 n/a .000
01585 + 1.0 01:SITE1-Over .00 .000 No_date 0:00 .00 n/a .000
01586 + 1.0 01:SITE1 .48 .008 No_date 1:57 43.18 n/a .000
01587 SUM= 1.0 01:SITE1 .48 .008 No_date 1:57 43.18 n/a .000
01588 *****
01589 R0505:C00032-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01590 ADD HYD + 1.0 01:SITE2-Out .45 .009 No_date 1:58 43.87 n/a .000
01591 + 1.0 01:SITE2-Over .00 .000 No_date 0:00 .00 n/a .000
01592 + 1.0 01:SITE1 .48 .008 No_date 1:57 43.18 n/a .000
01593 + 1.0 01:SITE1 .48 .008 No_date 1:57 43.18 n/a .000
01594 SUM= 1.0 01:SITE1 1.23 .043 No_date 1:22 41.19 n/a .000
01595 *****
01596 R0505:C00033-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01597 ROUTE CHANNEL -> 1.0 01:SITE1 .123 .043 No_date 1:22 41.19 n/a .000
01598 RTD 1.00i out- 1.0 01:SITE1 1.23 .042 No_date 1:29 41.19 n/a .000
01599 [L/S/m= 147. / .394 / .035]
01600 [Vmax= .330iDmax= .134]
01601 *****
01602 R0505:C00034-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01603 ADD HYD + 1.0 01:SITE1 1.23 .042 No_date 1:22 41.19 n/a .000
01604 + 1.0 01:EXT3 .56 .044 No_date 1:22 29.25 n/a .000
01605 SUM= 1.0 01:SITE1 1.23 .042 No_date 1:22 41.19 n/a .000
01606 *****
01607 R0505:C00035-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01608 ROUTE CHANNEL -> 1.0 01:SITE2 5.00 .204 No_date 1:43 32.19 n/a .000
01609 RTD 1.00i out- 1.0 01:SITE2 5.00 .204 No_date 1:43 32.19 n/a .000
01610 [L/S/m= 72. / .423 / .035]
01611 [Vmax= .496iDmax= .259]
01612 *****
01613 R0505:C00037-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01614 ADD HYD + 1.0 01:SITE2 5.31 .219 No_date 1:43 32.19 n/a .000
01615 + 1.0 01:EXT4 .31 .025 No_date 1:19 28.33 n/a .000
01616 SUM= 1.0 01:SITE2 5.31 .219 No_date 1:43 32.19 n/a .000
01617 *****
01618 R0505:C00038-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01619 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .220 No_date 1:39 31.96 n/a .000
01620 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 31.96 n/a .000
01621 [L/S/m= 92. / .274 / .035]
01622 [Vmax= .785iDmax= .419]
01623 *****
01624 R0505:C00039-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01625 ADD HYD + 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01626 + 1.0 01:EXT5 .59 .038 No_date 1:32 30.49 .425 .000
01627 SUM= 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01628 *****
01629 R0505:C00040-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01630 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01631 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01632 [L/S/m= 92. / .274 / .035]
01633 [Vmax= .785iDmax= .419]
01634 *****
01635 R0505:C00041-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01636 ADD HYD + 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01637 + 1.0 01:EXT5 .59 .038 No_date 1:32 30.49 .425 .000
01638 SUM= 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01639 *****
01640 R0505:C00042-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01641 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01642 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01643 [L/S/m= 92. / .274 / .035]
01644 [Vmax= .785iDmax= .419]
01645 *****
01646 R0505:C00043-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01647 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01648 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01649 [L/S/m= 92. / .274 / .035]
01650 [Vmax= .785iDmax= .419]
01651 *****
01652 R0505:C00044-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01653 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01654 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01655 [L/S/m= 92. / .274 / .035]
01656 [Vmax= .785iDmax= .419]
01657 *****
01658 R0505:C00045-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01659 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01660 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01661 [L/S/m= 92. / .274 / .035]
01662 [Vmax= .785iDmax= .419]
01663 *****
01664 R0505:C00046-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01665 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01666 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01667 [L/S/m= 92. / .274 / .035]
01668 [Vmax= .785iDmax= .419]
01669 *****
01670 R0505:C00047-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01671 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01672 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01673 [L/S/m= 92. / .274 / .035]
01674 [Vmax= .785iDmax= .419]
01675 *****
01676 R0505:C00048-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01677 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01678 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01679 [L/S/m= 92. / .274 / .035]
01680 [Vmax= .785iDmax= .419]
01681 *****
01682 R0505:C00049-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01683 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01684 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01685 [L/S/m= 92. / .274 / .035]
01686 [Vmax= .785iDmax= .419]
01687 *****
01688 R0505:C00050-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01689 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01690 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01691 [L/S/m= 92. / .274 / .035]
01692 [Vmax= .785iDmax= .419]
01693 *****
01694 R0505:C00051-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01695 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01696 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01697 [L/S/m= 92. / .274 / .035]
01698 [Vmax= .785iDmax= .419]
01699 *****
01700 R0505:C00052-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01701 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01702 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01703 [L/S/m= 92. / .274 / .035]
01704 [Vmax= .785iDmax= .419]
01705 *****
01706 R0505:C00053-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01707 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01708 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01709 [L/S/m= 92. / .274 / .035]
01710 [Vmax= .785iDmax= .419]
01711 *****
01712 R0505:C00054-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01713 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01714 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01715 [L/S/m= 92. / .274 / .035]
01716 [Vmax= .785iDmax= .419]
01717 *****
01718 R0505:C00055-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01719 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01720 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01721 [L/S/m= 92. / .274 / .035]
01722 [Vmax= .785iDmax= .419]
01723 *****
01724 R0505:C00056-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01725 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01726 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01727 [L/S/m= 92. / .274 / .035]
01728 [Vmax= .785iDmax= .419]
01729 *****
01730 R0505:C00057-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01731 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01732 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01733 [L/S/m= 92. / .274 / .035]
01734 [Vmax= .785iDmax= .419]
01735 *****
01736 R0505:C00058-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01737 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01738 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01739 [L/S/m= 92. / .274 / .035]
01740 [Vmax= .785iDmax= .419]
01741 *****
01742 R0505:C00059-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01743 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01744 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01745 [L/S/m= 92. / .274 / .035]
01746 [Vmax= .785iDmax= .419]
01747 *****
01748 R0505:C00060-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01749 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01750 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01751 [L/S/m= 92. / .274 / .035]
01752 [Vmax= .785iDmax= .419]
01753 *****
01754 R0505:C00061-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01755 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01756 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01757 [L/S/m= 92. / .274 / .035]
01758 [Vmax= .785iDmax= .419]
01759 *****
01760 R0505:C00062-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01761 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01762 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01763 [L/S/m= 92. / .274 / .035]
01764 [Vmax= .785iDmax= .419]
01765 *****
01766 R0505:C00063-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01767 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01768 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01769 [L/S/m= 92. / .274 / .035]
01770 [Vmax= .785iDmax= .419]
01771 *****
01772 R0505:C00064-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01773 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01774 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01775 [L/S/m= 92. / .274 / .035]
01776 [Vmax= .785iDmax= .419]
01777 *****
01778 R0505:C00065-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01779 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01780 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01781 [L/S/m= 92. / .274 / .035]
01782 [Vmax= .785iDmax= .419]
01783 *****
01784 R0505:C00066-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01785 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01786 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01787 [L/S/m= 92. / .274 / .035]
01788 [Vmax= .785iDmax= .419]
01789 *****
01790 R0505:C00067-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01791 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01792 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01793 [L/S/m= 92. / .274 / .035]
01794 [Vmax= .785iDmax= .419]
01795 *****
01796 R0505:C00068-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R.C-----DWfCms
01797 ROUTE CHANNEL -> 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01798 RTD 1.00i out- 1.0 01:EXT3 5.31 .219 No_date 1:43 32.19 n/a .000
01799 [L/S/m= 92. / .274 / .035]
01800 [Vmax= .785iDmax= .419]
01801 *****
01802 R0505:C00069-----DtnIn-ID-INHYD-----AREAhA-QFEARcns-TspakDate_hh:mm-----Rvnm-R
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02881# ADD HYD + 1.0 01:SITE1-out 48 .007 No_date 12:41 43.28 n/a .000
02882# + 1.0 01:SITE1-Over 48 .007 No_date 12:41 43.28 n/a .000
02883# SUM# 1.0 01:SITE1 48 .007 No_date 12:41 43.28 n/a .000
02884# R0110:C00032 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02885# ADD HYD + 1.0 01:SITE2-out 48 .008 No_date 12:40 44.42 n/a .000
02886# + 1.0 01:SITE2-Over 00 .000 No_date 0:00 .00 n/a .000
02887# SUM# 1.0 01:SITE2 48 .008 No_date 12:40 44.42 n/a .000
02888# R0110:C00033 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02889# ADD HYD + 1.0 01:SITE2 28 .022 No_date 12:13 42.40 n/a .000
02890# + 1.0 01:SITE1 48 .007 No_date 12:40 44.42 n/a .000
02891# + 1.0 01:SITE1 48 .007 No_date 12:41 43.28 n/a .000
02892# + 1.0 01:SITE2 48 .008 No_date 12:40 44.42 n/a .000
02893# SUM# 1.0 01:SITE 1.23 .038 No_date 12:14 43.34 n/a .000
02894# R0110:C00034 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02895# ROUTE CHANNEL -> 1.0 01:SITE1 1.23 .038 No_date 12:14 43.34 n/a .000
02896# (RDT=1.00) out-> 1.0 01:SITE1 1.23 .036 No_date 12:11 43.34 n/a .000
02897# (1/5/5= 72./ 425/ .035)
02898# (Vmax= .316;Dmax= .125)
02899# R0110:C00035 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02900# ADD HYD + 1.0 01:SITE2 5.9 .038 No_date 12:13 38.15 n/a .000
02901# + 1.0 01:EXT3 5.6 .038 No_date 12:13 36.46 n/a .000
02902# SUM# 1.0 01:SITE2 5.31 .191 No_date 12:12 37.99 n/a .000
02903# + 1.0 01:SITE2 5.00 .178 No_date 12:19 38.15 n/a .000
02904# R0110:C00036 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02905# ROUTE CHANNEL -> 1.0 01:SITE2 5.00 .178 No_date 12:19 38.15 n/a .000
02906# (RDT=1.00) out-> 1.0 01:SITE2 5.00 .177 No_date 12:11 38.15 n/a .000
02907# (1/5/5= 72./ 425/ .035)
02908# (Vmax= .478;Dmax= .244)
02909# R0110:C00037 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02910# ADD HYD + 1.0 01:SITE2 5.9 .038 No_date 12:13 38.15 n/a .000
02911# + 1.0 01:EXT4 5.31 .022 No_date 12:11 35.39 n/a .000
02912# SUM# 1.0 01:SITE2 5.31 .191 No_date 12:12 37.99 n/a .000
02913# R0110:C00038 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02914# ROUTE CHANNEL -> 1.0 01:SITE2 5.31 .191 No_date 12:12 37.99 n/a .000
02915# (RDT=1.00) out-> 1.0 01:SITE2 5.31 .190 No_date 12:11 37.99 n/a .000
02916# (1/5/5= 92./ 274/ .035)
02917# (Vmax= .251./ 194/ .035)
02918# R0110:C00039 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02919# ADD HYD + 1.0 01:SITE2 5.31 .190 No_date 12:11 37.99 n/a .000
02920# + 1.0 01:EXT3 5.07 .028 No_date 12:12 37.99 n/a .000
02921# SUM# 1.0 01:SITE2 5.90 .216 No_date 12:10 37.43 n/a .000
02922# R0110:C00040 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02923# ROUTE CHANNEL -> 1.0 01:SITE2 5.90 .216 No_date 12:10 37.43 n/a .000
02924# (RDT=1.00) out-> 1.0 01:SITE2 5.90 .204 No_date 12:10 37.43 n/a .000
02925# (1/5/5= 251./ 194/ .035)
02926# (Vmax= .384;Dmax= .284)
02927# R0110:C00041 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02928# ADD HYD + 1.0 01:SITE2 5.90 .204 No_date 12:10 37.43 n/a .000
02929# + 1.0 01:EXT3 5.07 .028 No_date 12:12 37.99 n/a .000
02930# SUM# 1.0 01:SITE2 7.24 .268 No_date 12:13 38.18 n/a .000
02931# + 1.0 01:SITE2 7.24 .268 No_date 12:13 38.18 n/a .000
02932# R0110:C00042 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02933# ROUTE CHANNEL -> 1.0 01:SITE2 7.24 .268 No_date 12:13 38.18 n/a .000
02934# (RDT=1.00) out-> 1.0 01:SITE2 7.24 .264 No_date 12:11 38.18 n/a .000
02935# (1/5/5= 237./ 644/ .035)
02936# (Vmax= .623;Dmax= .267)
02937# R0110:C00043 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02938# ADD HYD + 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02939# + 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02940# SUM# 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02941# + 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02942# R0110:C00044 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02943# ROUTE CHANNEL -> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02944# (RDT=1.00) out-> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02945# (1/5/5= 71./ 774/ .035)
02946# (Vmax= .492;Dmax= .032)
02947# R0110:C00045 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02948# ROUTE CHANNEL -> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02949# (RDT=1.00) out-> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02950# (1/5/5= 159./ 1574/ .035)
02951# (Vmax= .797;Dmax= .064)
02952# R0110:C00046 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02953# ADD HYD + 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02954# + 1.0 01:EXT3 8.80 .043 No_date 12:11 28.00 n/a .000
02955# + 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02956# + 1.0 01:EXT3 8.80 .043 No_date 12:11 28.00 n/a .000
02957# SUM# 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02958# R0110:C00047 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02959# ROUTE CHANNEL -> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02960# (RDT=1.00) out-> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02961# (1/5/5= 79./ 522/ .035)
02962# (Vmax= .423;Dmax= .041)
02963# R0110:C00048 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02964# ADD HYD + 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02965# + 1.0 01:EXT3 8.80 .043 No_date 12:11 28.00 n/a .000
02966# SUM# 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02967# R0110:C00049 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02968# ROUTE CHANNEL -> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02969# (RDT=1.00) out-> 1.0 01:SITE2 8.80 .043 No_date 12:11 28.00 n/a .000
02970# (1/5/5= 29./ 887/ .035)
02971# (Vmax= .543;Dmax= .050)
02972# R0110:C00050 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02973# ADD HYD + 1.0 01:EXT3 3.57 .158 No_date 12:14 32.39 n/a .000
02974# + 1.0 01:SITE2 1.53 .073 No_date 12:19 28.43 n/a .000
02975# + 1.0 01:SITE2 1.53 .073 No_date 12:19 28.43 n/a .000
02976# + 1.0 01:EXT3 3.57 .158 No_date 12:14 32.39 n/a .000
02977# SUM# 1.0 01:SITE2 1.53 .073 No_date 12:19 28.43 n/a .000
02978# R0110:C00051 -Dtn-ID-INHYD- AREAha-QFEARcm-TpeakDate_hh:mm-Rvmm-R.C.-DWfcm
02979# ROUTE PIPE -> 1.0 01:SITE2 13.18 .508 No_date 12:10 35.30 n/a .000
02980# (RDT=1.00) out-> 1.0 01:SITE2 13.18 .508 No_date 12:10 35.30 n/a .000
02981# (1/5/5= 8./ 010/ .013)
02982# (Dmax= 420./ 120./ 0.000)
02983# (Dmax= 53./ 133/ 0.000)
02984# *****
02985# *****
02986# *****
02987# *****
02988# *****
02989# *****
02990# *****
02991# *****
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03059# *****
03060# *****
```

[illegible]

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036011 (Vmax=.797;Dmax=.329)
03602 R0150/C00040-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03603 ADD HYD + 1.0 02:02R6 .81 .067 Mo_date 12:14 43.30 n/a .000
03604 + 1.0 02:02XT10 .20 .013 Mo_date 12:19 43.13 n/a .000
03605 + 1.0 02:02Pre1.1 .07 .008 Mo_date 12:06 51.60 n/a .000
03606 + 1.0 02:02XT3a .01 .002 Mo_date 12:00 51.60 n/a .000
03607 SUM + 1.0 02:02R6 .81 .067 Mo_date 12:14 43.30 n/a .000
03608 R0150/C00047-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03609 ROUTE CHANNEL -> 1.0 02:02R6 1.10 .087 Mo_date 12:14 43.86 n/a .000
03610 [R/W=1.00] out<= 1.0 01:01R8 1.10 .085 Mo_date 12:17 43.46 n/a .000
03611 (L/S/tn= 79.7 /522.0/35)
03612 (Vmax=.423;Dmax=.563)
03613 R0150/C00048-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03614 ADD HYD + 1.0 02:02R8 1.10 .085 Mo_date 12:17 43.90 n/a .000
03615 + 1.0 02:02R7 .44 .030 Mo_date 12:10 43.23 n/a .000
03616 + 1.0 02:02XT7 1.53 .114 Mo_date 12:18 43.71 n/a .000
03617 R0150/C00049-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03618 ROUTE CHANNEL -> 1.0 02:02T7 1.53 .114 Mo_date 12:18 43.71 n/a .000
03619 [R/W=1.00] out<= 1.0 01:01R9 1.53 .114 Mo_date 12:18 43.71 n/a .000
03620 (L/S/tn= 29.7 /887.0/35)
03621 (Vmax=.543;Dmax=.078)
03622 R0150/C00050-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03623 ADD HYD + 1.0 02:02XT9 3.57 .242 Mo_date 12:23 49.04 n/a .000
03624 + 1.0 02:02R9 1.53 .114 Mo_date 12:18 43.73 n/a .000
03625 + 1.0 02:02R7 .83 .068 Mo_date 12:10 52.84 n/a .000
03626 + 1.0 02:02R5 7.24 .396 Mo_date 12:38 55.95 n/a .000
03627 SUM + 1.0 02:02R9 1.53 .114 Mo_date 12:18 43.73 n/a .000
03628 R0150/C00051-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03629 ROUTE PIPE -> 1.0 02:02R8 13.18 .781 Mo_date 12:28 52.47 n/a .000
03630 [R/W=1.00] out<= 1.0 01:01R1 13.18 .781 Mo_date 12:29 52.47 n/a .000
03631 (L/S/tn= 8.7 /010.0/13)
03632 (Vmax=.497;Dmax=.129)
03633 (Dlne=.53;Dused=1.56)
03634 #####
03635 # STORM
03636 #####
03637 # END OF RUN : 196
03638
03639
03640
03641
03642
03643
03644
03645 RUN# COMMAND#
03646 R0199/C0001-----
03647 START
03648 (TZERO=.00 hrs on 0)
03649 [MOUTP= 2 (1=imperial, 2=metric output)]
03650 [MFORM= 1]
03651 [NRUN= 0199]
03652 #####
03653 # SWHYDRO / INPUT DATA FILE
03654 #####
03655 # Project Name : [5923 Ottawa S5]
03656 # Project Number: [P2710(ebl)]
03657 # Date : [2025 April 28]
03658 # Modeller : [NM]
03659 # Company : JFSA Canada Inc.
03660 # License # : 254327
03661 #####
03662 # Model details under post processing
03663 #####
03664 R0199/C0002-----
03665 READ STORM
03666 Filename = STORM.001
03667 [SDT=10.00;IDUR= 24.00;PTOT= 106.73]
03668 #####
03669 R0199/C0003-----
03670 DEFAULT VALUES
03671 Filename = C:\Temp\20240327-PostDev\Ottawa.val
03672 #####
03673 ICASEDV = 1 (read and print data)
03674 FileTitle File comment: [Parameters for City of Ottawa Projects]
03675 THE FOLLOWING PARAMETERS ARE USED IN THE DESIGN STANDARD COM
03676 Horton's infiltration equation parameters:
03677 [F= 76.20 mm/hr] [F=13.20 mm/hr] [DCX= 4.14 /hr] [F= .00 mm]
03678 Parameters for EFWI008 surfaces in STANDARDY:
03679 [Igrape= 4.67 mm] [Lgr=40.00 mm] [MHW= .230]
03680 Parameters for EFWI009 surfaces in STANDARDY:
03681 [Ialpine= 1.57 mm] [CL=1.50] [MHW= .013]
03682 Parameters used in STANDARDY:
03683 [Ia= 4.67 mm] [N= 3.00]
03684 Average monthly Pan Evaporation data in (mm)
03685 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
03686 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
03687 Average monthly Potential Evaporation (mm)
03688 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
03689 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
03690 #####
03691 # EXT1
03692 #####
03693 R0199/C00004-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03694 CALIB NASHYD 1.0 01:EXT1 3.21 .212 Mo_date 12:39 62.92 .589 .000
03695 [CN= 85.0; N= 3.00; Tpe=.72]
03696 #####
03697 # EXT2
03698 #####
03699 R0199/C00005-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03700 CALIB NASHYD 1.0 01:EXT3 .56 .066 Mo_date 12:13 62.92 .589 .000
03701 [CN= 85.0; N= 3.00; Tpe=.33]
03702 #####
03703 # EXT3
03704 #####
03705 R0199/C00006-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03706 CALIB NASHYD 1.0 01:EXT3 .56 .066 Mo_date 12:13 62.92 .589 .000
03707 [CN= 85.0; N= 3.00; Tpe=.42]
03708 #####
03709 # EXT4
03710 #####
03711 R0199/C00007-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03712 CALIB NASHYD 1.0 01:EXT4 .31 .038 Mo_date 12:11 61.42 .576 .000
03713 [CN= 79.0; N= 3.00; Tpe=.29]
03714 #####
03715 # EXT5
03716 #####
03717 R0199/C00008-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03718 CALIB NASHYD 1.0 01:EXT5 .59 .049 Mo_date 12:21 57.15 .535 .000
03719 [CN= 76.0; N= 3.00; Tpe=.45]
03720 #####
03721 # EXT6
03722 #####
03723 R0199/C00009-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03724 CALIB NASHYD 1.0 01:EXT6 .86 .078 Mo_date 12:28 70.92 .664 .000
03725 [CN= 85.0; N= 3.00; Tpe=.42]
03726 #####
03727 # EXT7
03728 #####
03729 R0199/C00010-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03730 CALIB NASHYD 1.0 01:EXT7 .47 .060 Mo_date 12:12 67.40 .633 .000
03731 [CN= 85.0; N= 3.00; Tpe=.52]
03732 #####
03733 # EXT8
03734 #####
03735 R0199/C00011-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03736 CALIB NASHYD 1.0 01:EXT8 .83 .079 Mo_date 12:19 61.42 .576 .000
03737 [CN= 79.0; N= 3.00; Tpe=.42]
03738 #####
03739 # EXT9
03740 #####
03741 R0199/C00012-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03742 CALIB NASHYD 1.0 01:EXT9 3.57 .284 Mo_date 12:23 57.15 .535 .000
03743 [CN= 76.0; N= 3.00; Tpe=.48]
03744 #####
03745 # EXT10
03746 #####
03747 R0199/C00013-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03748 CALIB NASHYD 1.0 01:EXT10 .01 .003 Mo_date 12:00 59.96 .562 .000
03749 [CN= 78.0; N= 3.00; Tpe=.04]
03750 #####
03751 # EXT11
03752 #####
03753 R0199/C00014-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03754 CALIB NASHYD 1.0 01:EXT11 .20 .016 Mo_date 12:19 50.61 .474 .000
03755 [CN= 71.0; N= 3.00; Tpe=.03]
03756 #####
03757 # Pre1.1
03758 #####
03759 R0199/C00015-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03760 CALIB NASHYD 1.0 01:Pre1.1 .01 .01 Mo_date 12:00 51.66 .486 .000
03761 [CN= 72.0; N= 3.00; Tpe=.03]
03762 #####
03763 # Pre2.1
03764 #####
03765 R0199/C00016-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03766 CALIB NASHYD 1.0 01:Pre2.1 .00 .001 Mo_date 12:00 59.95 .562 .000
03767 [CN= 76.0; N= 3.00; Tpe=.00]
03768 #####
03769 # Pre1.2
03770 #####
03771 R0199/C00017-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03772 CALIB NASHYD 1.0 01:Pre2.1 .44 .036 Mo_date 12:17 50.61 .474 .000
03773 [CN= 71.0; N= 3.00; Tpe=.38]
03774 #####
03775 # Pre2.2
03776 #####
03777 R0199/C00018-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03778 CALIB NASHYD 1.0 01:Pre2.2 .01 .003 Mo_date 12:00 55.78 .523 .000
03779 [CN= 75.0; N= 3.00; Tpe=.03]
03780 #####
03781 # STORM
03782 #####
03783 # Pre1.1
03784 #####
03785 R0199/C00019-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03786 CALIB NASHYD 1.0 01:Pre1.1 .01 .01 Mo_date 12:00 51.66 .486 .000
03787 [CN= 72.0; N= 3.00; Tpe=.03]
03788 #####
03789 # Pre2.1
03790 #####
03791 R0199/C00020-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03792 CALIB NASHYD 1.0 01:Pre2.1 .00 .001 Mo_date 12:00 59.95 .562 .000
03793 [CN= 76.0; N= 3.00; Tpe=.00]
03794 #####
03795 # Pre2.2
03796 #####
03797 R0199/C00021-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03798 CALIB NASHYD 1.0 01:Pre2.2 .01 .003 Mo_date 12:00 55.78 .523 .000
03799 [CN= 75.0; N= 3.00; Tpe=.03]
03800 #####
03801 # STORM
03802 #####
03803 R0199/C00022-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03804 DESIGN STANDARDY 1.0 01:01-Roof .06 .024 Mo_date 12:00 104.42 .978 .000
03805 [XIMP=.99;TIMP=.99]
03806 [SLP=.50;DT=1.00]
03807 [LSS= 1.0; HORTON]
03808 #####
03809 R0199/C00023-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03810 ROUTE RESERVOIR -> 1.0 02:01-Roof .06 .024 Mo_date 12:00 104.42 n/a .000
03811 [R/W=1.00] out<= 1.0 01:01-Roof-Dv .06 .007 Mo_date 12:02 104.42 n/a .000
03812 (MfRtosed=168.0E-02 n3, TotOVVol=1.000E+00 n3, N-Over= 0, TotDurOfEv= 0.hrs)
03813 #####
03814 R0199/C00024-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03815 ADD HYD + 1.0 02:01-R1 .42 .113 Mo_date 12:00 60.12 n/a .000
03816 + 1.0 02:01-Roof-Dv .00 .000 Mo_date 0:00 .00 n/a .000
03817 SUM + 1.0 02:01-R1 .42 .113 Mo_date 12:00 60.12 n/a .000
03818 R0199/C00025-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03819 ROUTE RESERVOIR -> 1.0 02:01T1-IN .48 .120 Mo_date 12:00 66.09 n/a .000
03820 [R/W=1.00] out<= 1.0 01:01T1-Out .48 .008 Mo_date 12:00 66.09 n/a .000
03821 [R/W=1.00] over<= 1.0 03:01T1-Over .00 .000 Mo_date 0:00 .00 n/a .000
03822 (MfRtosed=168.0E-02 n3, TotOVVol=1.000E+00 n3, N-Over= 0, TotDurOfEv= 0.hrs)
03823 #####
03824 # Site 2
03825 #####
03826 R0199/C00026-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03827 DESIGN STANDARDY 1.0 01:02-Roof .36 .095 Mo_date 12:00 58.00 .543 .000
03828 [XIMP=.99;TIMP=.99]
03829 [SLP=.50;DT=1.00]
03830 [LSS= 1.0; HORTON]
03831 #####
03832 # Site 2 - Roof
03833 #####
03834 R0199/C00027-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03835 DESIGN STANDARDY 1.0 01:02-Roof .09 .034 Mo_date 12:00 104.44 .979 .000
03836 [XIMP=.99;TIMP=.99]
03837 [SLP=.50;DT=1.00]
03838 [LSS= 1.0; HORTON]
03839 #####
03840 R0199/C00028-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03841 ROUTE RESERVOIR -> 1.0 02:02-Roof .09 .034 Mo_date 12:00 104.44 n/a .000
03842 [R/W=1.00] out<= 1.0 01:02-Roof-Dv .09 .004 Mo_date 12:02 104.44 n/a .000
03843 [R/W=1.00] over<= 1.0 03:02-Roof-Over .00 .000 Mo_date 0:00 .00 n/a .000
03844 (MfRtosed=131.1E-02 n3, TotOVVol=1.000E+00 n3, N-Over= 0, TotDurOfEv= 0.hrs)
03845 #####
03846 R0199/C00029-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03847 ADD HYD + 1.0 02:02-R3 .36 .095 Mo_date 12:00 58.00 n/a .000
03848 + 1.0 02:02-Roof-Dv .00 .000 Mo_date 0:00 .00 n/a .000
03849 SUM + 1.0 02:02-R3 .36 .095 Mo_date 12:00 58.00 n/a .000
03850 R0199/C00030-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03851 ROUTE RESERVOIR -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03852 [R/W=1.00] out<= 1.0 01:01T2-Out .45 .008 Mo_date 12:00 67.40 n/a .000
03853 [R/W=1.00] over<= 1.0 03:01T2-Over .00 .000 Mo_date 0:00 .00 n/a .000
03854 (MfRtosed=149.9E-01 n3, TotOVVol=1.000E+00 n3, N-Over= 0, TotDurOfEv= 0.hrs)
03855 #####
03856 R0199/C00031-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03857 ADD HYD + 1.0 02:01T1-Over .48 .008 Mo_date 12:00 66.10 n/a .000
03858 + 1.0 02:01T1-Over .48 .008 Mo_date 12:00 66.10 n/a .000
03859 SUM + 1.0 02:01T1-Over .48 .008 Mo_date 12:00 66.10 n/a .000
03860 R0199/C00032-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03861 ADD HYD + 1.0 02:01T2-Over .00 .000 Mo_date 0:00 .00 n/a .000
03862 + 1.0 02:01T2-Over .00 .000 Mo_date 0:00 .00 n/a .000
03863 SUM + 1.0 02:01T2-Over .00 .000 Mo_date 0:00 .00 n/a .000
03864 R0199/C00033-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03865 ADD HYD + 1.0 02:EXT2 .28 .037 Mo_date 12:13 70.91 n/a .000
03866 + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03867 SUM + 1.0 02:EXT2 .28 .037 Mo_date 12:13 70.91 n/a .000
03868 + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03869 SUM + 1.0 02:EXT2 .28 .037 Mo_date 12:13 70.91 n/a .000
03870 R0199/C00034-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03871 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03872 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03873 (L/S/tn= 143.7 /294.0/35)
03874 (Vmax=.357;Dmax=.149)
03875 #####
03876 R0199/C00035-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03877 ADD HYD + 1.0 02:EXT3 .56 .066 Mo_date 12:13 62.92 n/a .000
03878 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03879 SUM + 1.0 02:EXT3 .56 .066 Mo_date 12:13 62.92 n/a .000
03880 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03881 SUM + 1.0 02:EXT3 .56 .066 Mo_date 12:13 62.92 n/a .000
03882 R0199/C00036-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03883 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03884 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03885 (L/S/tn= 143.7 /294.0/35)
03886 (Vmax=.357;Dmax=.149)
03887 #####
03888 R0199/C00037-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03889 ADD HYD + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03890 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03891 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03892 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03893 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03894 R0199/C00038-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03895 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03896 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03897 (L/S/tn= 143.7 /294.0/35)
03898 (Vmax=.357;Dmax=.149)
03899 #####
03900 R0199/C00039-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03901 ADD HYD + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03902 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03903 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03904 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03905 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03906 R0199/C00040-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03907 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03908 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03909 (L/S/tn= 143.7 /294.0/35)
03910 (Vmax=.357;Dmax=.149)
03911 #####
03912 R0199/C00041-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03913 ADD HYD + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03914 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03915 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03916 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03917 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03918 R0199/C00042-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03919 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03920 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03921 (L/S/tn= 143.7 /294.0/35)
03922 (Vmax=.357;Dmax=.149)
03923 #####
03924 R0199/C00043-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03925 ADD HYD + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03926 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03927 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03928 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03929 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03930 R0199/C00044-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03931 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03932 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03933 (L/S/tn= 143.7 /294.0/35)
03934 (Vmax=.357;Dmax=.149)
03935 #####
03936 R0199/C00045-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03937 ADD HYD + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03938 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03939 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03940 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03941 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03942 R0199/C00046-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03943 ROUTE CHANNEL -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03944 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03945 (L/S/tn= 143.7 /294.0/35)
03946 (Vmax=.357;Dmax=.149)
03947 #####
03948 R0199/C00047-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03949 ADD HYD + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03950 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03951 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03952 + 1.0 02:EXT4 .31 .038 Mo_date 12:11 61.42 n/a .000
03953 SUM + 1.0 02:EXT3 .59 .049 Mo_date 12:21 57.15 n/a .000
03954 R0199/C00048-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03955 ROUTE PIPE -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03956 [R/W=1.00] out<= 1.0 01:01R1 1.23 .053 Mo_date 12:19 67.61 n/a .000
03957 (L/S/tn= 143.7 /294.0/35)
03958 (Vmax=.357;Dmax=.149)
03959 #####
03960 # STORM
03961 #####
03962 R0199/C00049-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03963 DESIGN STANDARDY 1.0 01:02-Roof .36 .095 Mo_date 12:00 58.00 .543 .000
03964 [XIMP=.99;TIMP=.99]
03965 [SLP=.50;DT=1.00]
03966 [LSS= 1.0; HORTON]
03967 #####
03968 R0199/C00050-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03969 ROUTE RESERVOIR -> 1.0 02:02-Roof .09 .034 Mo_date 12:00 104.44 n/a .000
03970 [R/W=1.00] out<= 1.0 01:02-Roof-Dv .09 .004 Mo_date 12:02 104.44 n/a .000
03971 [R/W=1.00] over<= 1.0 03:02-Roof-Over .00 .000 Mo_date 0:00 .00 n/a .000
03972 (MfRtosed=131.1E-02 n3, TotOVVol=1.000E+00 n3, N-Over= 0, TotDurOfEv= 0.hrs)
03973 #####
03974 R0199/C00051-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03975 ADD HYD + 1.0 02:02-R3 .36 .095 Mo_date 12:00 58.00 n/a .000
03976 + 1.0 02:02-Roof-Dv .00 .000 Mo_date 0:00 .00 n/a .000
03977 SUM + 1.0 02:02-R3 .36 .095 Mo_date 12:00 58.00 n/a .000
03978 R0199/C00052-----DtnIn-ID-INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvwm-R-C-----DWfms
03979 ROUTE RESERVOIR -> 1.0 02:01T2-IN .45 .104 Mo_date 12:00 67.40 n/a .000
03980 [R/W=1.00] out<= 1.0 01:01T2-Out .45 .008 Mo_date 12:00 67.40 n/a .000
03981 [R/W=1.00] over<= 1.0 
```

```
03961) #####
03962) ** END OF RUN : 1976
03963)
03964)
03965)
03966)
03967)
03968)
03969)
03970) RUN#(COMMAND#)
03971) R1979/C0001
03972) START
03973) [ZERO = .00 hrs on 0]
03974) [METOUT= 2] (1=imperial, 2=metric output)
03975) [METORM= 1]
03976) [NRUN = 1979]
03977)
03978) # SWHYNO / INPUT DATA FILE
03979)
03980) # Project Name : [5923 Ottawa St]
03981) # Project Number: [P2710(e01)]
03982) # Date : [2023 April 28]
03983) # Modeler : [NM]
03984) # Company : JFSA Canada Inc.
03985) # License # : 2549237
03986) #####
03987) # Model developed to simulate runoff from subcatchments under post development conditions
03988) #####
03989) R1979/C0002
03990) HEAD STORM
03991) Filename = STORM.001
03992) Comment = July 1st, 1979 Storm (3H) - Ottawa International Airport step 5 min
03993) [SDT= 5.00IDRM= 3.00PTOT= 83.99]
03994)
03995) R1979/C0003
03996) DEFAULT VALUES
03997) Filename = C:\Temp\20240327-PostDev\Ottawa.val
03998) [CASEDEV = 1 (read and print data)]
03999) [FileTitle File comment: [Parameters for City of Ottawa Projects]]
04000)
04001) THE FOLLOWING PARAMETERS ARE USED IN THE DESIGN STANDARD COM
04002) Horton's infiltration equation parameters:
04003) [F= 16.00 mm/hr] [F=13.20 mm/hr] [DCRY= 4.14 /hr] [F= .00 mm]
04004) Parameters for PERVIOUS surfaces in STANDARDY
04005) [Igrs= 4.67 mm] [Lgr=40.00 mm] [MHW= .230]
04006) Parameters for IMPVIOUS surfaces in STANDARDY
04007) [Iaimp= 1.57 mm] [CLim= 1.50] [MHW= .013]
04008) Parameters used in NASHVIT
04009) [Ia= 4.67 mm] [N= 3.00]
04010) Average Monthly Pan Evaporation data in (mm)
04011) JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
04012) .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
04013) Average Monthly Potential Evapotranspiration in (mm)
04014) JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
04015) .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
04016) # EXT1
04017) #####
04018) R1979/C00004-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04019) CALIB NASHVD 1.0 01:EXT1 3.21 .240 No_date 2:16 44.05 .524 .000
04020) # EXT2
04021) #####
04022) R1979/C00005-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04023) CALIB NASHVD 1.0 01:EXT2 .28 .039 No_date 1:50 50.48 .403 .000
04024) [Cm= 85.0: No 3.00: Tpe= .33]
04025) # EXT3
04026) #####
04027) R1979/C00006-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04028) CALIB NASHVD 1.0 01:EXT3 .56 .067 No_date 1:50 44.05 .524 .000
04029) [Cm= 85.0: No 3.00: Tpe= .56]
04030) # EXT4
04031) #####
04032) R1979/C00007-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04033) CALIB NASHVD 1.0 01:EXT4 .31 .038 No_date 1:48 42.84 .510 .000
04034) [Cm= 79.0: No 3.00: Tpe= .29]
04035) # EXT5
04036) #####
04037) R1979/C00008-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04038) CALIB NASHVD 1.0 01:EXT5 .59 .054 No_date 2:01 39.44 .470 .000
04039) [Cm= 76.0: No 3.00: Tpe= .45]
04040) # EXT6
04041) #####
04042) R1979/C00009-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04043) CALIB NASHVD 1.0 01:EXT6 .86 .088 No_date 2:06 50.68 .403 .000
04044) [Cm= 85.0: No 3.00: Tpe= .86]
04045) # EXT7
04046) #####
04047) R1979/C00010-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04048) CALIB NASHVD 1.0 01:EXT7 3.57 .311 No_date 2:03 39.44 .470 .000
04049) [Cm= 76.0: No 3.00: Tpe= .48]
04050) # EXT8
04051) #####
04052) R1979/C00011-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04053) CALIB NASHVD 1.0 01:EXT8 .83 .085 No_date 1:58 42.85 .510 .000
04054) [Cm= 79.0: No 3.00: Tpe= .83]
04055) # EXT9
04056) #####
04057) R1979/C00012-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04058) CALIB NASHVD 1.0 01:EXT9 3.57 .311 No_date 2:03 39.44 .470 .000
04059) [Cm= 76.0: No 3.00: Tpe= .48]
04060) # EXT10
04061) #####
04062) R1979/C00013-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04063) CALIB NASHVD 1.0 01:EXT10 .20 .017 No_date 1:59 34.36 .409 .000
04064) [Cm= 71.0: No 3.00: Tpe= .20]
04065) # EXT11
04066) #####
04067) R1979/C00014-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04068) CALIB NASHVD 1.0 01:EXT11 .01 .002 No_date 1:30 41.67 .496 .000
04069) [Cm= 78.0: No 3.00: Tpe= .04]
04070) # EXT12
04071) #####
04072) R1979/C00015-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04073) CALIB NASHVD 1.0 01:EXT12 .01 .002 No_date 1:30 41.67 .496 .000
04074) [Cm= 78.0: No 3.00: Tpe= .04]
04075) # EXT13
04076) #####
04077) R1979/C00016-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04078) CALIB NASHVD 1.0 01:EXT13 .44 .038 No_date 1:55 34.37 .409 .000
04079) [Cm= 71.0: No 3.00: Tpe= .38]
04080) # EXT14
04081) #####
04082) R1979/C00017-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04083) CALIB NASHVD 1.0 01:EXT14 .01 .002 No_date 1:30 38.36 .457 .000
04084) [Cm= 75.0: No 3.00: Tpe= .03]
04085) # EXT15
04086) #####
04087) R1979/C00018-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04088) CALIB NASHVD 1.0 01:EXT15 .01 .002 No_date 1:30 38.36 .457 .000
04089) [Cm= 75.0: No 3.00: Tpe= .03]
04090) # EXT16
04091) #####
04092) R1979/C00019-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04093) CALIB NASHVD 1.0 01:EXT16 .44 .038 No_date 1:55 34.37 .409 .000
04094) [Cm= 71.0: No 3.00: Tpe= .38]
04095) # EXT17
04096) #####
04097) R1979/C00020-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04098) CALIB NASHVD 1.0 01:EXT17 .01 .002 No_date 1:30 38.36 .457 .000
04099) [Cm= 75.0: No 3.00: Tpe= .03]
04100) # EXT18
04101) #####
04102) R1979/C00021-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04103) CALIB NASHVD 1.0 01:EXT18 .01 .002 No_date 1:30 38.36 .457 .000
04104) [Cm= 75.0: No 3.00: Tpe= .03]
04105) # EXT19
04106) #####
04107) R1979/C00022-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04108) CALIB NASHVD 1.0 01:EXT19 .01 .002 No_date 1:30 38.36 .457 .000
04109) [Cm= 75.0: No 3.00: Tpe= .03]
04110) # EXT20
04111) #####
04112) R1979/C00023-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04113) CALIB NASHVD 1.0 01:EXT20 .01 .002 No_date 1:30 38.36 .457 .000
04114) [Cm= 75.0: No 3.00: Tpe= .03]
04115) # EXT21
04116) #####
04117) R1979/C00024-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04118) CALIB NASHVD 1.0 01:EXT21 .01 .002 No_date 1:30 38.36 .457 .000
04119) [Cm= 75.0: No 3.00: Tpe= .03]
04120) # EXT22
04121) #####
04122) R1979/C00025-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04123) CALIB NASHVD 1.0 01:EXT22 .01 .002 No_date 1:30 38.36 .457 .000
04124) [Cm= 75.0: No 3.00: Tpe= .03]
04125) # EXT23
04126) #####
04127) R1979/C00026-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04128) CALIB NASHVD 1.0 01:EXT23 .01 .002 No_date 1:30 38.36 .457 .000
04129) [Cm= 75.0: No 3.00: Tpe= .03]
04130) # EXT24
04131) #####
04132) R1979/C00027-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04133) CALIB NASHVD 1.0 01:EXT24 .01 .002 No_date 1:30 38.36 .457 .000
04134) [Cm= 75.0: No 3.00: Tpe= .03]
04135) # EXT25
04136) #####
04137) R1979/C00028-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04138) CALIB NASHVD 1.0 01:EXT25 .01 .002 No_date 1:30 38.36 .457 .000
04139) [Cm= 75.0: No 3.00: Tpe= .03]
04140) # EXT26
04141) #####
04142) R1979/C00029-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04143) CALIB NASHVD 1.0 01:EXT26 .01 .002 No_date 1:30 38.36 .457 .000
04144) [Cm= 75.0: No 3.00: Tpe= .03]
04145) # EXT27
04146) #####
04147) R1979/C00030-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04148) CALIB NASHVD 1.0 01:EXT27 .01 .002 No_date 1:30 38.36 .457 .000
04149) [Cm= 75.0: No 3.00: Tpe= .03]
04150) # EXT28
04151) #####
04152) R1979/C00031-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04153) CALIB NASHVD 1.0 01:EXT28 .01 .002 No_date 1:30 38.36 .457 .000
04154) [Cm= 75.0: No 3.00: Tpe= .03]
04155) # EXT29
04156) #####
04157) R1979/C00032-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04158) CALIB NASHVD 1.0 01:EXT29 .01 .002 No_date 1:30 38.36 .457 .000
04159) [Cm= 75.0: No 3.00: Tpe= .03]
04160) # EXT30
04161) #####
04162) R1979/C00033-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04163) CALIB NASHVD 1.0 01:EXT30 .01 .002 No_date 1:30 38.36 .457 .000
04164) [Cm= 75.0: No 3.00: Tpe= .03]
04165) # EXT31
04166) #####
04167) R1979/C00034-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04168) CALIB NASHVD 1.0 01:EXT31 .01 .002 No_date 1:30 38.36 .457 .000
04169) [Cm= 75.0: No 3.00: Tpe= .03]
04170) # EXT32
04171) #####
04172) R1979/C00035-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04173) CALIB NASHVD 1.0 01:EXT32 .01 .002 No_date 1:30 38.36 .457 .000
04174) [Cm= 75.0: No 3.00: Tpe= .03]
04175) # EXT33
04176) #####
04177) R1979/C00036-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04178) CALIB NASHVD 1.0 01:EXT33 .01 .002 No_date 1:30 38.36 .457 .000
04179) [Cm= 75.0: No 3.00: Tpe= .03]
04180) # EXT34
04181) #####
04182) R1979/C00037-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04183) CALIB NASHVD 1.0 01:EXT34 .01 .002 No_date 1:30 38.36 .457 .000
04184) [Cm= 75.0: No 3.00: Tpe= .03]
04185) # EXT35
04186) #####
04187) R1979/C00038-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04188) CALIB NASHVD 1.0 01:EXT35 .01 .002 No_date 1:30 38.36 .457 .000
04189) [Cm= 75.0: No 3.00: Tpe= .03]
04190) # EXT36
04191) #####
04192) R1979/C00039-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04193) CALIB NASHVD 1.0 01:EXT36 .01 .002 No_date 1:30 38.36 .457 .000
04194) [Cm= 75.0: No 3.00: Tpe= .03]
04195) # EXT37
04196) #####
04197) R1979/C00040-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04198) CALIB NASHVD 1.0 01:EXT37 .01 .002 No_date 1:30 38.36 .457 .000
04199) [Cm= 75.0: No 3.00: Tpe= .03]
04200) # EXT38
04201) #####
04202) R1979/C00041-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04203) CALIB NASHVD 1.0 01:EXT38 .01 .002 No_date 1:30 38.36 .457 .000
04204) [Cm= 75.0: No 3.00: Tpe= .03]
04205) # EXT39
04206) #####
04207) R1979/C00042-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04208) CALIB NASHVD 1.0 01:EXT39 .01 .002 No_date 1:30 38.36 .457 .000
04209) [Cm= 75.0: No 3.00: Tpe= .03]
04210) # EXT40
04211) #####
04212) R1979/C00043-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04213) CALIB NASHVD 1.0 01:EXT40 .01 .002 No_date 1:30 38.36 .457 .000
04214) [Cm= 75.0: No 3.00: Tpe= .03]
04215) # EXT41
04216) #####
04217) R1979/C00044-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04218) CALIB NASHVD 1.0 01:EXT41 .01 .002 No_date 1:30 38.36 .457 .000
04219) [Cm= 75.0: No 3.00: Tpe= .03]
04220) # EXT42
04221) #####
04222) R1979/C00045-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04223) CALIB NASHVD 1.0 01:EXT42 .01 .002 No_date 1:30 38.36 .457 .000
04224) [Cm= 75.0: No 3.00: Tpe= .03]
04225) # EXT43
04226) #####
04227) R1979/C00046-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04228) CALIB NASHVD 1.0 01:EXT43 .01 .002 No_date 1:30 38.36 .457 .000
04229) [Cm= 75.0: No 3.00: Tpe= .03]
04230) # EXT44
04231) #####
04232) R1979/C00047-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04233) CALIB NASHVD 1.0 01:EXT44 .01 .002 No_date 1:30 38.36 .457 .000
04234) [Cm= 75.0: No 3.00: Tpe= .03]
04235) # EXT45
04236) #####
04237) R1979/C00048-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04238) CALIB NASHVD 1.0 01:EXT45 .01 .002 No_date 1:30 38.36 .457 .000
04239) [Cm= 75.0: No 3.00: Tpe= .03]
04240) # EXT46
04241) #####
04242) R1979/C00049-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04243) CALIB NASHVD 1.0 01:EXT46 .01 .002 No_date 1:30 38.36 .457 .000
04244) [Cm= 75.0: No 3.00: Tpe= .03]
04245) # EXT47
04246) #####
04247) R1979/C00050-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04248) CALIB NASHVD 1.0 01:EXT47 .01 .002 No_date 1:30 38.36 .457 .000
04249) [Cm= 75.0: No 3.00: Tpe= .03]
04250) # EXT48
04251) #####
04252) R1979/C00051-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04253) CALIB NASHVD 1.0 01:EXT48 .01 .002 No_date 1:30 38.36 .457 .000
04254) [Cm= 75.0: No 3.00: Tpe= .03]
04255) # EXT49
04256) #####
04257) R1979/C00052-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04258) CALIB NASHVD 1.0 01:EXT49 .01 .002 No_date 1:30 38.36 .457 .000
04259) [Cm= 75.0: No 3.00: Tpe= .03]
04260) # EXT50
04261) #####
04262) R1979/C00053-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04263) CALIB NASHVD 1.0 01:EXT50 .01 .002 No_date 1:30 38.36 .457 .000
04264) [Cm= 75.0: No 3.00: Tpe= .03]
04265) # EXT51
04266) #####
04267) R1979/C00054-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04268) CALIB NASHVD 1.0 01:EXT51 .01 .002 No_date 1:30 38.36 .457 .000
04269) [Cm= 75.0: No 3.00: Tpe= .03]
04270) # EXT52
04271) #####
04272) R1979/C00055-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04273) CALIB NASHVD 1.0 01:EXT52 .01 .002 No_date 1:30 38.36 .457 .000
04274) [Cm= 75.0: No 3.00: Tpe= .03]
04275) # EXT53
04276) #####
04277) R1979/C00056-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04278) CALIB NASHVD 1.0 01:EXT53 .01 .002 No_date 1:30 38.36 .457 .000
04279) [Cm= 75.0: No 3.00: Tpe= .03]
04280) # EXT54
04281) #####
04282) R1979/C00057-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04283) CALIB NASHVD 1.0 01:EXT54 .01 .002 No_date 1:30 38.36 .457 .000
04284) [Cm= 75.0: No 3.00: Tpe= .03]
04285) # EXT55
04286) #####
04287) R1979/C00058-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04288) CALIB NASHVD 1.0 01:EXT55 .01 .002 No_date 1:30 38.36 .457 .000
04289) [Cm= 75.0: No 3.00: Tpe= .03]
04290) # EXT56
04291) #####
04292) R1979/C00059-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04293) CALIB NASHVD 1.0 01:EXT56 .01 .002 No_date 1:30 38.36 .457 .000
04294) [Cm= 75.0: No 3.00: Tpe= .03]
04295) # EXT57
04296) #####
04297) R1979/C00060-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04298) CALIB NASHVD 1.0 01:EXT57 .01 .002 No_date 1:30 38.36 .457 .000
04299) [Cm= 75.0: No 3.00: Tpe= .03]
04300) # EXT58
04301) #####
04302) R1979/C00061-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04303) CALIB NASHVD 1.0 01:EXT58 .01 .002 No_date 1:30 38.36 .457 .000
04304) [Cm= 75.0: No 3.00: Tpe= .03]
04305) # EXT59
04306) #####
04307) R1979/C00062-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04308) CALIB NASHVD 1.0 01:EXT59 .01 .002 No_date 1:30 38.36 .457 .000
04309) [Cm= 75.0: No 3.00: Tpe= .03]
04310) # EXT60
04311) #####
04312) R1979/C00063-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04313) CALIB NASHVD 1.0 01:EXT60 .01 .002 No_date 1:30 38.36 .457 .000
04314) [Cm= 75.0: No 3.00: Tpe= .03]
04315) # EXT61
04316) #####
04317) R1979/C00064-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04318) CALIB NASHVD 1.0 01:EXT61 .01 .002 No_date 1:30 38.36 .457 .000
04319) [Cm= 75.0: No 3.00: Tpe= .03]
04320) # EXT62
04321) #####
04322) R1979/C00065-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04323) CALIB NASHVD 1.0 01:EXT62 .01 .002 No_date 1:30 38.36 .457 .000
04324) [Cm= 75.0: No 3.00: Tpe= .03]
04325) # EXT63
04326) #####
04327) R1979/C00066-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04328) CALIB NASHVD 1.0 01:EXT63 .01 .002 No_date 1:30 38.36 .457 .000
04329) [Cm= 75.0: No 3.00: Tpe= .03]
04330) # EXT64
04331) #####
04332) R1979/C00067-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04333) CALIB NASHVD 1.0 01:EXT64 .01 .002 No_date 1:30 38.36 .457 .000
04334) [Cm= 75.0: No 3.00: Tpe= .03]
04335) # EXT65
04336) #####
04337) R1979/C00068-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04338) CALIB NASHVD 1.0 01:EXT65 .01 .002 No_date 1:30 38.36 .457 .000
04339) [Cm= 75.0: No 3.00: Tpe= .03]
04340) # EXT66
04341) #####
04342) R1979/C00069-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04343) CALIB NASHVD 1.0 01:EXT66 .01 .002 No_date 1:30 38.36 .457 .000
04344) [Cm= 75.0: No 3.00: Tpe= .03]
04345) # EXT67
04346) #####
04347) R1979/C00070-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04348) CALIB NASHVD 1.0 01:EXT67 .01 .002 No_date 1:30 38.36 .457 .000
04349) [Cm= 75.0: No 3.00: Tpe= .03]
04350) # EXT68
04351) #####
04352) R1979/C00071-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04353) CALIB NASHVD 1.0 01:EXT68 .01 .002 No_date 1:30 38.36 .457 .000
04354) [Cm= 75.0: No 3.00: Tpe= .03]
04355) # EXT69
04356) #####
04357) R1979/C00072-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04358) CALIB NASHVD 1.0 01:EXT69 .01 .002 No_date 1:30 38.36 .457 .000
04359) [Cm= 75.0: No 3.00: Tpe= .03]
04360) # EXT70
04361) #####
04362) R1979/C00073-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04363) CALIB NASHVD 1.0 01:EXT70 .01 .002 No_date 1:30 38.36 .457 .000
04364) [Cm= 75.0: No 3.00: Tpe= .03]
04365) # EXT71
04366) #####
04367) R1979/C00074-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04368) CALIB NASHVD 1.0 01:EXT71 .01 .002 No_date 1:30 38.36 .457 .000
04369) [Cm= 75.0: No 3.00: Tpe= .03]
04370) # EXT72
04371) #####
04372) R1979/C00075-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04373) CALIB NASHVD 1.0 01:EXT72 .01 .002 No_date 1:30 38.36 .457 .000
04374) [Cm= 75.0: No 3.00: Tpe= .03]
04375) # EXT73
04376) #####
04377) R1979/C00076-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04378) CALIB NASHVD 1.0 01:EXT73 .01 .002 No_date 1:30 38.36 .457 .000
04379) [Cm= 75.0: No 3.00: Tpe= .03]
04380) # EXT74
04381) #####
04382) R1979/C00077-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04383) CALIB NASHVD 1.0 01:EXT74 .01 .002 No_date 1:30 38.36 .457 .000
04384) [Cm= 75.0: No 3.00: Tpe= .03]
04385) # EXT75
04386) #####
04387) R1979/C00078-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04388) CALIB NASHVD 1.0 01:EXT75 .01 .002 No_date 1:30 38.36 .457 .000
04389) [Cm= 75.0: No 3.00: Tpe= .03]
04390) # EXT76
04391) #####
04392) R1979/C00079-----Dtain-ID:INVD-----AREAh-QFEARcm=TspeakDate_hh:mm-----Rvmm-R.C-----DWfcm
04393) CALIB NASHVD 1.0 01:EXT76 .01 .002 No_date 1:
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043221 DEFAULT VALUES
043222 FileName = C:\Temp\20260327-PostDev\Ottawa.val
043223 ICASESW = 1 (read and print data)
043224 FileTitle= File comment: (Parameters for City of Ottawa Projects)
043225 THE FOLLOWING PARAMETERS ARE USED IN THE DESIGN STANDARDY COM
043226 Horton's infiltration equation parameters:
043227 [Fw 76.20 mm/hr] [Fw1 1.20 mm/hr] [ICAN= 4.14 /hr] [Fw=.00 mm]
043228 Parameters for PERVIOUS surfaces in STANDYD:
043229 [Iapex= 4.67 mm] [LDP=40.00 mm] [MNI= .250]
043230 Parameters for IMPVIOUS surfaces in STANDYD:
043231 [Ialmp= 1.57 mm] [CL1= 1.50] [MNI= .013]
043232 Parameters used in NASHYD:
043233 [Iaw= 4.67 mm] [N= 3.00]
043234 Average monthly Pan Evaporation data in (mm)
043235 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
043236 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
043237 Average monthly Potential Evapotranspiration in (mm)
043238 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
043239 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
043240 *****
04341 # EXT1
04342 *****
04343 R1988:C00004-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04344 CALIB NASHYD 1.0 01:EXT1 3.21 .197 No_date 2:30 41.34 .513 .000
04345 [Cm= 80.0; N= 3.00; Tpe= .25]
04346 *****
04347 # EXT2
04348 *****
04349 R1988:C00005-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04350 CALIB NASHYD 1.0 01:EXT2 .28 .035 No_date 2:11 47.74 .592 .000
04351 [Cm= 85.0; N= 3.00; Tpe= .33]
04352 *****
04353 # EXT3
04354 *****
04355 R1988:C00006-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04356 CALIB NASHYD 1.0 01:EXT3 .56 .061 No_date 2:11 41.34 .513 .000
04357 [Cm= 80.0; N= 3.00; Tpe= .25]
04358 *****
04359 # EXT4
04360 *****
04361 R1988:C00007-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04362 CALIB NASHYD 1.0 01:EXT4 .31 .035 No_date 2:10 40.18 .499 .000
04363 [Cm= 79.0; N= 3.00; Tpe= .29]
04364 *****
04365 # EXT5
04366 *****
04367 R1988:C00008-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04368 CALIB NASHYD 1.0 01:EXT5 .59 .046 No_date 2:17 36.92 .458 .000
04369 [Cm= 76.0; N= 3.00; Tpe= .45]
04370 *****
04371 # EXT6
04372 *****
04373 R1988:C00009-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04374 CALIB NASHYD 1.0 01:EXT6 .86 .074 No_date 2:21 47.74 .592 .000
04375 [Cm= 80.0; N= 3.00; Tpe= .51]
04376 *****
04377 # EXT7
04378 *****
04379 R1988:C00010-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04380 CALIB NASHYD 1.0 01:EXT7 .05 No_date 2:10 32.49 .489 .000
04381 [Cm= 83.0; N= 3.00; Tpe= .52]
04382 *****
04383 # EXT8
04384 *****
04385 R1988:C00011-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04386 CALIB NASHYD 1.0 01:EXT8 .83 .074 No_date 2:15 40.18 .499 .000
04387 [Cm= 79.0; N= 3.00; Tpe= .45]
04388 *****
04389 # EXT9
04390 *****
04391 R1988:C00012-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04392 CALIB NASHYD 1.0 01:EXT9 3.57 .266 No_date 2:18 36.92 .458 .000
04393 [Cm= 76.0; N= 3.00; Tpe= .48]
04394 *****
04395 # EXTa
04396 *****
04397 R1988:C00013-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04398 CALIB NASHYD 1.0 01:EXT9a .01 .003 No_date 2:00 39.05 .485 .000
04399 [Cm= 78.0; N= 3.00; Tpe= .04]
04400 *****
04401 # EXT10
04402 *****
04403 R1988:C00014-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04404 CALIB NASHYD 1.0 01:EXT10 .20 .014 No_date 2:16 32.08 .398 .000
04405 [Cm= 71.0; N= 3.00; Tpe= .25]
04406 *****
04407 # Pre1_1
04408 *****
04409 R1988:C00015-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04410 CALIB NASHYD 1.0 01:Pre1_1 .03 No_date 2:00 32.49 .489 .000
04411 [Cm= 72.0; N= 3.00; Tpe= .03]
04412 *****
04413 # Pre2_2
04414 *****
04415 R1988:C00016-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04416 CALIB NASHYD 1.0 01:Pre2_2 .00 .001 No_date 2:00 39.04 .484 .000
04417 [Cm= 71.0; N= 3.00; Tpe= .01]
04418 *****
04419 # Pre1_2
04420 *****
04421 R1988:C00017-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04422 CALIB NASHYD 1.0 01:Pre1_2 .44 .033 No_date 2:14 32.08 .398 .000
04423 [Cm= 71.0; N= 3.00; Tpe= .38]
04424 *****
04425 # Pre2_2
04426 *****
04427 R1988:C00018-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04428 CALIB NASHYD 1.0 01:Pre2_2 .01 .004 No_date 2:00 35.89 .445 .000
04429 [Cm= 75.0; N= 3.00; Tpe= .03]
04430 *****
04431 # Pre1_1
04432 *****
04433 R1988:C00019-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04434 CALIB NASHYD 1.0 01:Pre1_1 .80 .072 No_date 2:10 32.08 .398 .000
04435 [Cm= 71.0; N= 3.00; Tpe= .25]
04436 *****
04437 # Pre1_1
04438 *****
04439 R1988:C00020-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04440 CALIB NASHYD 1.0 01:Pre1_1 .09 No_date 2:00 39.04 .485 .000
04441 [Cm= 78.0; N= 3.00; Tpe= .21]
04442 *****
04443 # Site 1
04444 *****
04445 R1988:C00021-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04446 DESIGN STANDYD 1.0 01:SI-B1 .42 .105 No_date 2:00 54.85 .681 .000
04447 [XMP= 31.7TMP= 4.1]
04448 [SLP= 10.0DT= 1.00]
04449 [LOGS= 1 : HORTONS]
04450 *****
04451 # Site 1 - Roof
04452 *****
04453 R1988:C00022-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04454 DESIGN STANDYD 1.0 01:SI-Roof .06 .028 No_date 2:00 78.59 .975 .000
04455 [XMP= 99.1TMP= .99]
04456 [SLP= .50DT= 1.00]
04457 [LOGS= 1 : HORTONS]
04458 *****
04459 R1988:C00023-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04460 ROUTE RESERVOIR -> 1.0 02:SI-Roof .06 .028 No_date 2:00 78.59 n/a .000
04461 out <= 1.0 02:SI-Roof-Ov .06 .008 No_date 2:00 78.59 n/a .000
04462 overflow <= 1.0 03:SI-Roof-Ov .00 .020 No_date 2:00 78.59 n/a .000
04463 [MstColsead= 2412E-02 m3, TotOfVol= 1935E-03 m3, N-Ovr= 1, TotDurOfV= 0 hrs]
04464 R1988:C00024-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04465 ADD HYD 1.0 02:SI-B1 .42 .105 No_date 2:00 54.85 n/a .000
04466 + 1.0 02:SI-Roof-Ov .06 .008 No_date 2:00 78.59 n/a .000
04467 + 1.0 02:SI-Roof-Ov .00 .020 No_date 2:00 78.59 n/a .000
04468 SUM= 1.0 02:SI-Roof-Ov .48 .133 No_date 2:00 58.05 n/a .000
04469 R1988:C00025-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04470 ROUTE RESERVOIR -> 1.0 02:SI-B1-IN .48 .133 No_date 2:00 58.05 n/a .000
04471 out <= 1.0 02:SI-B1-Out .48 .010 No_date 2:30 58.05 n/a .000
04472 overflow <= 1.0 03:SI-B1-Over .00 .000 No_date 0:00 .00 n/a .000
04473 [MstColsead= 1977E-02 m3, TotOfVol= 2000E-03 m3, N-Ovr= 0, TotDurOfV= 0 hrs]
04474 *****
04475 # Site 2
04476 *****
04477 R1988:C00026-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04478 DESIGN STANDYD 1.0 01:SI-B3 .36 .088 No_date 2:00 53.63 .665 .000
04479 [XMP= 31.7TMP= 4.1]
04480 [LOGS= 1 : HORTONS]
04481 *****
04482 # Site 2 - Roof
04483 *****
04484 R1988:C00027-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04485 DESIGN STANDYD 1.0 01:SI-Roof .09 .040 No_date 2:00 78.59 .975 .000
04486 [XMP= 99.1TMP= .99]
04487 [SLP= 10.0DT= 1.00]
04488 [LOGS= 1 : HORTONS]
04489 *****
04490 R1988:C00028-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04491 ROUTE RESERVOIR -> 1.0 02:SI-Roof .09 .040 No_date 2:00 78.59 n/a .000
04492 out <= 1.0 02:SI-Roof-Ov .09 .010 No_date 2:00 78.59 n/a .000
04493 overflow <= 1.0 03:SI-Roof-Ov .00 .020 No_date 2:00 78.59 n/a .000
04494 [MstColsead= 344E-02 m3, TotOfVol= 1697E-03 m3, N-Ovr= 1, TotDurOfV= 0 hrs]
04495 ADD HYD 1.0 02:SI-B3 .36 .088 No_date 2:00 53.63 n/a .000
04496 + 1.0 02:SI-Roof-Ov .00 .008 No_date 2:00 53.63 n/a .000
04497 + 1.0 02:SI-Roof-Ov .00 .012 No_date 2:00 78.59 n/a .000
04498 SUM= 1.0 02:SI-Roof-Ov .45 .128 No_date 2:00 58.79 n/a .000
04499 R1988:C00030-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04500 ROUTE RESERVOIR -> 1.0 02:SI-B2-IN .45 .128 No_date 2:00 58.79 n/a .000
04501 out <= 1.0 02:SI-B2-Out .45 .010 No_date 2:30 58.79 n/a .000
04502 overflow <= 1.0 03:SI-B2-Over .00 .000 No_date 0:00 .00 n/a .000
04503 [MstColsead= 1665E-01 m3, TotOfVol= 1.000E+00 m3, N-Ovr= 0, TotDurOfV= 0 hrs]
04504 *****
04505 R1988:C00031-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04506 ADD HYD 1.0 02:SI-B1-Out .48 .010 No_date 2:30 58.05 n/a .000
04507 + 1.0 02:SI-B1-Over .45 .010 No_date 2:30 58.05 n/a .000
04508 SUM= 1.0 02:SI-B1 .123 .053 No_date 2:30 55.67 n/a .000
04509 R1988:C00032-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04510 ADD HYD 1.0 02:SI-B2-Over .00 .000 No_date 0:00 .00 n/a .000
04511 SUM= 1.0 02:SI-B2-Over .45 .010 No_date 2:30 58.79 n/a .000
04512 *****
04513 R1988:C00033-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04514 ADD HYD 1.0 02:EXT2 .28 .035 No_date 2:11 47.74 n/a .000
04515 + 1.0 02:Pre1_1 .59 .046 No_date 2:10 32.49 n/a .000
04516 + 1.0 02:SI-B1 .48 .010 No_date 2:30 58.05 n/a .000
04517 SUM= 1.0 02:EXT2 .45 .010 No_date 2:12 55.67 n/a .000
04518 *****
04519 R1988:C00034-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04520 ROUTE CHANNEL -> 1.0 02:J1 1.23 .053 No_date 2:11 55.67 n/a .000
04521 [RDT= 1.00] out<= 1.0 01:R1 1.23 .051 No_date 2:16 55.67 n/a .000
04522 [L/S/Fw= 143.7 /394 /035]
04523 [Vmax= .354; Dmax= .147]
04524 R1988:C00035-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04525 ADD HYD 1.0 02:J1 .051 No_date 2:16 55.67 n/a .000
04526 + 1.0 02:EXT3 .56 .061 No_date 2:11 41.34 n/a .000
04527 SUM= 1.0 02:EXT1 1.21 .197 No_date 2:30 41.34 n/a .000
04528 *****
04529 R1988:C00036-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04530 ROUTE CHANNEL -> 1.0 02:J2 5.00 .288 No_date 2:21 44.87 n/a .000
04531 [RDT= 1.00] out<= 1.0 01:R2 5.00 .287 No_date 2:22 44.87 n/a .000
04532 [L/S/Fw= 231.7 /776 /035]
04533 [Vmax= .542; Dmax= .297]
04534 *****
04535 R1988:C00037-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04536 ADD HYD 1.0 02:R2 .59 .287 No_date 2:22 44.87 n/a .000
04537 + 1.0 02:EXT4 .31 .035 No_date 2:10 40.18 n/a .000
04538 SUM= 1.0 02:EXT4 5.31 .313 No_date 2:20 44.59 n/a .000
04539 R1988:C00038-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04540 ROUTE CHANNEL -> 1.0 02:J3 5.31 .313 No_date 2:20 44.59 n/a .000
04541 [RDT= 1.00] out<= 1.0 01:R3 5.31 .310 No_date 2:22 44.59 n/a .000
04542 [L/S/Fw= 92.7 /274 /035]
04543 [Vmax= .443; Dmax= .353]
04544 *****
04545 R1988:C00039-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04546 ADD HYD 1.0 02:R3 5.31 .310 No_date 2:22 44.59 n/a .000
04547 + 1.0 02:EXT5 .47 .056 No_date 2:11 45.92 n/a .000
04548 SUM= 1.0 01:J4 5.90 .355 No_date 2:22 43.82 n/a .000
04549 R1988:C00040-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04550 ROUTE CHANNEL -> 1.0 02:J4 5.90 .355 No_date 2:22 43.82 n/a .000
04551 [RDT= 1.00] out<= 1.0 01:R4 5.90 .333 No_date 2:30 43.82 n/a .000
04552 [L/S/Fw= 251.7 /1392 /035]
04553 [Vmax= .441; Dmax= .353]
04554 *****
04555 R1988:C00041-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04556 ADD HYD 1.0 02:R4 5.90 .333 No_date 2:30 43.82 n/a .000
04557 + 1.0 02:EXT6 .86 .074 No_date 2:21 47.74 n/a .000
04558 SUM= 1.0 02:EXT7 .47 .056 No_date 2:11 45.92 n/a .000
04559 R1988:C00042-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04560 ROUTE CHANNEL -> 1.0 02:J5 7.24 .441 No_date 2:25 44.37 n/a .000
04561 [RDT= 1.00] out<= 1.0 01:R5 7.24 .433 No_date 2:30 44.37 n/a .000
04562 [L/S/Fw= 251.7 /1392 /035]
04563 [Vmax= .722; Dmax= .326]
04564 *****
04565 R1988:C00043-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04566 ADD HYD 1.0 02:Pre1_1 .80 .072 No_date 2:10 32.08 n/a .000
04567 + 1.0 02:Pre2_2 .01 .004 No_date 2:00 35.89 n/a .000
04568 SUM= 1.0 02:Pre2_2 .81 .072 No_date 2:10 32.16 n/a .000
04569 R1988:C00044-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04570 ROUTE CHANNEL -> 1.0 02:Pre 1.00 .072 No_date 2:12 32.16 n/a .000
04571 [RDT= 1.00] out<= 1.0 01:Pre 1.00 .072 No_date 2:12 32.16 n/a .000
04572 [L/S/Fw= 22.7 /776 /035]
04573 [Vmax= .492; Dmax= .052]
04574 *****
04575 R1988:C00045-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04576 ROUTE CHANNEL -> 1.0 02:Pre1_1 .44 .033 No_date 2:14 32.08 n/a .000
04577 [RDT= 1.00] out<= 1.0 01:R1 .44 .033 No_date 2:17 32.08 n/a .000
04578 [L/S/Fw= 129.7 /576 /035]
04579 [Vmax= .797; Dmax= .010]
04580 *****
04581 R1988:C00046-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04582 ADD HYD 1.0 02:R6 .81 .071 No_date 2:12 32.40 n/a .000
04583 + 1.0 02:EXT10 .20 .014 No_date 2:16 32.08 n/a .000
04584 SUM= 1.0 02:EXT11 .83 .074 No_date 2:15 32.42 n/a .000
04585 R1988:C00047-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04586 ROUTE CHANNEL -> 1.0 02:R6 .81 .072 No_date 2:10 32.16 n/a .000
04587 [RDT= 1.00] out<= 1.0 01:R6 .81 .071 No_date 2:12 32.16 n/a .000
04588 [L/S/Fw= 22.7 /776 /035]
04589 [Vmax= .492; Dmax= .052]
04590 *****
04591 R1988:C00048-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04592 ROUTE CHANNEL -> 1.0 02:Pre1_1 .44 .033 No_date 2:14 32.08 n/a .000
04593 [RDT= 1.00] out<= 1.0 01:R1 .44 .033 No_date 2:17 32.08 n/a .000
04594 [L/S/Fw= 129.7 /576 /035]
04595 [Vmax= .797; Dmax= .010]
04596 *****
04597 R1988:C00049-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04598 ADD HYD 1.0 02:EXT9 3.57 .266 No_date 2:18 36.92 n/a .000
04599 + 1.0 02:EXT10 .20 .014 No_date 2:16 32.08 n/a .000
04600 SUM= 1.0 02:EXT11 .83 .074 No_date 2:15 32.42 n/a .000
04601 R1988:C00050-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04602 ROUTE PIPE -> 1.0 02:R7 1.18 .863 No_date 2:22 40.75 n/a .000
04603 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04604 [L/S/Fw= 8.7 /010 /013]
04605 [Dine .53; Dmax= 1.62]
04606 *****
04607 R1988:C00051-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04608 ROUTE PIPE -> 1.0 02:R8 1.18 .863 No_date 2:22 40.75 n/a .000
04609 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04610 [L/S/Fw= 8.7 /010 /013]
04611 [Dine .53; Dmax= 1.62]
04612 *****
04613 R1988:C00052-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04614 ROUTE PIPE -> 1.0 02:R9 1.18 .863 No_date 2:22 40.75 n/a .000
04615 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04616 [L/S/Fw= 8.7 /010 /013]
04617 [Dine .53; Dmax= 1.62]
04618 *****
04619 R1988:C00053-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04620 ROUTE PIPE -> 1.0 02:R10 1.18 .863 No_date 2:22 40.75 n/a .000
04621 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04622 [L/S/Fw= 8.7 /010 /013]
04623 [Dine .53; Dmax= 1.62]
04624 *****
04625 R1988:C00054-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04626 ROUTE PIPE -> 1.0 02:R11 1.18 .863 No_date 2:22 40.75 n/a .000
04627 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04628 [L/S/Fw= 8.7 /010 /013]
04629 [Dine .53; Dmax= 1.62]
04630 *****
04631 R1988:C00055-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04632 ROUTE PIPE -> 1.0 02:R12 1.18 .863 No_date 2:22 40.75 n/a .000
04633 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04634 [L/S/Fw= 8.7 /010 /013]
04635 [Dine .53; Dmax= 1.62]
04636 *****
04637 R1988:C00056-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04638 ROUTE PIPE -> 1.0 02:R13 1.18 .863 No_date 2:22 40.75 n/a .000
04639 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04640 [L/S/Fw= 8.7 /010 /013]
04641 [Dine .53; Dmax= 1.62]
04642 *****
04643 R1988:C00057-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04644 ROUTE PIPE -> 1.0 02:R14 1.18 .863 No_date 2:22 40.75 n/a .000
04645 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04646 [L/S/Fw= 8.7 /010 /013]
04647 [Dine .53; Dmax= 1.62]
04648 *****
04649 R1988:C00058-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04650 ROUTE PIPE -> 1.0 02:R15 1.18 .863 No_date 2:22 40.75 n/a .000
04651 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04652 [L/S/Fw= 8.7 /010 /013]
04653 [Dine .53; Dmax= 1.62]
04654 *****
04655 R1988:C00059-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04656 ROUTE PIPE -> 1.0 02:R16 1.18 .863 No_date 2:22 40.75 n/a .000
04657 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04658 [L/S/Fw= 8.7 /010 /013]
04659 [Dine .53; Dmax= 1.62]
04660 *****
04661 R1988:C00060-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04662 ROUTE PIPE -> 1.0 02:R17 1.18 .863 No_date 2:22 40.75 n/a .000
04663 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04664 [L/S/Fw= 8.7 /010 /013]
04665 [Dine .53; Dmax= 1.62]
04666 *****
04667 R1988:C00061-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04668 ROUTE PIPE -> 1.0 02:R18 1.18 .863 No_date 2:22 40.75 n/a .000
04669 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04670 [L/S/Fw= 8.7 /010 /013]
04671 [Dine .53; Dmax= 1.62]
04672 *****
04673 R1988:C00062-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04674 ROUTE PIPE -> 1.0 02:R19 1.18 .863 No_date 2:22 40.75 n/a .000
04675 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04676 [L/S/Fw= 8.7 /010 /013]
04677 [Dine .53; Dmax= 1.62]
04678 *****
04679 R1988:C00063-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04680 ROUTE PIPE -> 1.0 02:R20 1.18 .863 No_date 2:22 40.75 n/a .000
04681 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04682 [L/S/Fw= 8.7 /010 /013]
04683 [Dine .53; Dmax= 1.62]
04684 *****
04685 R1988:C00064-----DtnIn-ID:HYD-----AREAhA-QFEARCs-TpeakDate_hh:mm-----Rvmm-R.C-----DWfms
04686 ROUTE PIPE -> 1.0 02:R21 1.18 .863 No_date 2:22 40.75 n/a .000
04687 [RDT= 1.00] out<= 1.0 01:Outlet 1.18 .862 No_date 2:23 40.75 n/a .000
04688 [L/S/Fw= 8.7 /010 /013]
04689 [Dine .53; Dmax= 1.62]
04690 *****
04691 R1988:C00065-----DtnIn-ID:HYD
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04681> CALIB NASHVD 1.0 01:EXT3 .56 .041 No_date 3:26 36.11 489 .000
04682> [Cm 79.0: N= 3.00: Tpe .42]
04683>
04684> # EXT4
04685> *****
04686> R1996:C00007-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04687> CALIB NASHVD 1.0 01:EXT4 .31 .023 No_date 3:24 35.05 474 .000
04688> [Cm 79.0: N= 3.00: Tpe .29]
04689>
04690> # EXT5
04691> *****
04692> R1996:C00008-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04693> CALIB NASHVD 1.0 01:EXT5 .59 .031 No_date 3:34 32.07 434 .000
04694> [Cm 76.0: N= 3.00: Tpe .45]
04695> *****
04696> # EXT6
04697> *****
04698> R1996:C00009-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04699> CALIB NASHVD 1.0 01:EXT6 .86 .048 No_date 3:40 42.02 369 .000
04700> [Cm 85.0: N= 3.00: Tpe .32]
04701> *****
04702> # EXT7
04703> *****
04704> R1996:C00010-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04705> CALIB NASHVD 1.0 01:EXT7 .47 .037 No_date 3:26 39.33 535 .000
04706> [Cm 83.0: N= 3.00: Tpe .32]
04707> *****
04708> # EXT8
04709> *****
04710> R1996:C00011-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04711> CALIB NASHVD 1.0 01:EXT8 .83 .049 No_date 3:32 35.05 474 .000
04712> [Cm 79.0: N= 3.00: Tpe .42]
04713> *****
04714> # EXT9
04715> *****
04716> R1996:C00012-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04717> CALIB NASHVD 1.0 01:EXT9 3.57 .177 No_date 3:36 32.07 434 .000
04718> [Cm 76.0: N= 3.00: Tpe .48]
04719> *****
04720> # EXT9a
04721> *****
04722> R1996:C00013-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04723> CALIB NASHVD 1.0 01:EXT9a .01 .001 No_date 1:26 34.01 460 .000
04724> [Cm 78.0: N= 3.00: Tpe .04]
04725> *****
04726> # EXT10
04727> *****
04728> R1996:C00014-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04729> CALIB NASHVD 1.0 01:EXT10 .20 .010 No_date 3:32 27.70 375 .000
04730> [Cm 71.0: N= 3.00: Tpe .01]
04731> *****
04732> # Pre1_1
04733> *****
04734> R1996:C00015-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04735> CALIB NASHVD 1.0 01:Pre1_1 .01 .001 No_date 1:26 38.32 386 .000
04736> [Cm 72.0: N= 3.00: Tpe .03]
04737> *****
04738> # Pre2_2
04739> *****
04740> R1996:C00016-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04741> CALIB NASHVD 1.0 01:Pre2_2 .00 .000 No_date 1:25 34.01 460 .000
04742> [Cm 71.0: N= 3.00: Tpe .01]
04743> *****
04744> # Pre1
04745> *****
04746> R1996:C00017-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04747> CALIB NASHVD 1.0 01:Pre1 .44 .022 No_date 3:30 27.71 375 .000
04748> [Cm 71.0: N= 3.00: Tpe .38]
04749> *****
04750> # Pre2
04751> *****
04752> R1996:C00018-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04753> CALIB NASHVD 1.0 01:Pre2 .01 .002 No_date 1:25 31.34 421 .000
04754> [Cm 75.0: N= 3.00: Tpe .03]
04755> *****
04756> # Pre1_1
04757> *****
04758> R1996:C00019-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04759> CALIB NASHVD 1.0 01:Pre1_1 .80 .049 No_date 3:24 27.71 375 .000
04760> [Cm 71.0: N= 3.00: Tpe .01]
04761> *****
04762> # Pre1_1
04763> *****
04764> R1996:C00020-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04765> CALIB NASHVD 1.0 01:Pre1_1 .07 .006 No_date 1:19 34.01 460 .000
04766> [Cm 78.0: N= 3.00: Tpe .21]
04767> *****
04768> # Site 1
04769> *****
04770> R1996:C00021-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04771> DESION STANDHYD 1.0 01:Site-1 .42 .069 No_date 1:30 49.80 674 .000
04772> [Xtme=34.71Tpe=44]
04773> [SLP=1.00DT=1.00]
04774> [LOGS=1: HORTONS]
04775> *****
04776> # Site 1 - Roof
04777> *****
04778> R1996:C00022-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04779> DESION STANDHYD 1.0 01:Site-Roof .06 .002 No_date 1:25 71.93 973 .000
04780> [Xtme=91.71Tpe=99]
04781> [SLP=50DT=1.00]
04782> [LOGS=1: HORTONS]
04783> *****
04784> R1996:C00023-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04785> ROUTE RESERVOIR -> 1.0 01:SITE1-Roof .06 .002 No_date 1:25 71.93 n/a .000
04786> out <= 1.0 01:SITE1-Roof-Ov .07 .005 No_date 1:32 71.93 n/a .000
04787> overflow <= 1.0 01:SITE1-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
04788> [MktDevCoef=.2496E-01 n3, TotDevVol=.0000E+00 n3, N-Ovrf= 0, TotDevOvf= 0 hrs]
04789> *****
04790> R1996:C00024-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04791> ADD HYD + 1.0 01:SITE1-B1 .42 .069 No_date 1:30 49.80 n/a .000
04792> + 1.0 01:SITE1-Roof-Ov .09 .008 No_date 1:32 71.93 n/a .000
04793> + 1.0 01:SITE1-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
04794> SUM= 1.0 01:SITE1-IN 1.23 .039 No_date 3:32 50.29 n/a .000
04795> *****
04796> R1996:C00025-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04797> ROUTE RESERVOIR -> 1.0 01:SITE1-IN .48 .075 No_date 1:30 52.79 n/a .000
04798> out <= 1.0 01:SITE1-Out .48 .008 No_date 3:44 53.47 n/a .000
04799> overflow <= 1.0 01:SITE1-Over .00 .000 No_date 0:00 .00 n/a .000
04800> [MktDevCoef=.1368E-01 n3, TotDevVol=.0000E+00 n3, N-Ovrf= 0, TotDevOvf= 0 hrs]
04801> *****
04802> R1996:C00026-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04803> DESION STANDHYD 1.0 01:Site-2 .36 .058 No_date 1:30 48.67 659 .000
04804> [Xtme=31.07Tpe=100]
04805> [SLP=1.00DT=1.00]
04806> [LOGS=1: HORTONS]
04807> *****
04808> # Site 2 - Roof
04809> *****
04810> R1996:C00027-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04811> DESION STANDHYD 1.0 01:Site-Roof .09 .031 No_date 1:25 71.93 973 .000
04812> [Xtme=99.71Tpe=99]
04813> [SLP=50DT=1.00]
04814> [LOGS=1: HORTONS]
04815> *****
04816> R1996:C00028-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04817> ROUTE RESERVOIR -> 1.0 01:SITE1-Roof .09 .003 No_date 1:25 71.93 n/a .000
04818> out <= 1.0 01:SITE1-Roof-Ov .09 .008 No_date 1:32 71.93 n/a .000
04819> overflow <= 1.0 01:SITE1-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
04820> [MktDevCoef=.2496E-01 n3, TotDevVol=.0000E+00 n3, N-Ovrf= 0, TotDevOvf= 0 hrs]
04821> *****
04822> R1996:C00029-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04823> ADD HYD + 1.0 01:SITE1-B1 .42 .069 No_date 1:30 49.80 n/a .000
04824> + 1.0 01:SITE1-Roof-Ov .09 .008 No_date 1:32 71.93 n/a .000
04825> + 1.0 01:SITE1-Roof-Ov .00 .000 No_date 0:00 .00 n/a .000
04826> SUM= 1.0 01:SITE1-IN 1.23 .039 No_date 3:32 50.29 n/a .000
04827> *****
04828> R1996:C00030-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04829> ROUTE RESERVOIR -> 1.0 01:SITE1-IN .45 .066 No_date 1:30 53.47 n/a .000
04830> out <= 1.0 01:SITE1-Out .45 .009 No_date 3:44 53.47 n/a .000
04831> overflow <= 1.0 01:SITE1-Over .00 .000 No_date 0:00 .00 n/a .000
04832> [MktDevCoef=.1368E-01 n3, TotDevVol=.0000E+00 n3, N-Ovrf= 0, TotDevOvf= 0 hrs]
04833> *****
04834> R1996:C00031-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04835> ADD HYD + 1.0 01:SITE1-Out .48 .008 No_date 3:44 52.79 n/a .000
04836> + 1.0 01:SITE1-Over .00 .000 No_date 0:00 .00 n/a .000
04837> SUM= 1.0 01:Site1 .48 .008 No_date 3:44 52.79 n/a .000
04838> *****
04839> R1996:C00032-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04840> ADD HYD + 1.0 01:SITE1 .28 .023 No_date 3:26 42.02 n/a .000
04841> + 1.0 01:Pre1 .01 .001 No_date 1:26 38.32 n/a .000
04842> + 1.0 01:Site1 .48 .008 No_date 3:44 52.79 n/a .000
04843> SUM= 1.0 01:Site1 1.23 .040 No_date 3:26 50.29 n/a .000
04844> *****
04845> R1996:C00033-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04846> ROUTE CHANNEL -> 1.0 01:SITE1 .40 .019 No_date 3:26 50.29 n/a .000
04847> [RT=1.00] out <= 1.0 01:SITE1 1.23 .039 No_date 3:32 50.29 n/a .000
04848> [L/S=143 / 291]
04849> [Vmax=.323:Omax=.130]
04850> *****
04851> R1996:C00034-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04852> ADD HYD + 1.0 01:SITE1 .28 .023 No_date 3:26 42.02 n/a .000
04853> + 1.0 01:Pre1 .01 .001 No_date 1:26 38.32 n/a .000
04854> + 1.0 01:Site1 .48 .008 No_date 3:44 52.79 n/a .000
04855> SUM= 1.0 01:Site1 1.23 .040 No_date 3:26 50.29 n/a .000
04856> *****
04857> R1996:C00035-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04858> ROUTE CHANNEL -> 1.0 01:SITE1 .40 .019 No_date 3:26 50.29 n/a .000
04859> [RT=1.00] out <= 1.0 01:SITE1 1.23 .039 No_date 3:32 50.29 n/a .000
04860> [L/S=143 / 291]
04861> [Vmax=.323:Omax=.130]
04862> *****
04863> R1996:C00036-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04864> ROUTE CHANNEL -> 1.0 01:EXT4 .31 .023 No_date 3:24 35.05 n/a .000
04865> [RT=1.00] out <= 1.0 01:EXT4 5.31 .215 No_date 3:38 39.33 n/a .000
04866> [L/S=92 / 274]
04867> [Vmax=.404:Omax=.245]
04868> *****
04869> R1996:C00037-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04870> ADD HYD + 1.0 01:EXT4 5.31 .213 No_date 3:41 39.33 n/a .000
04871> + 1.0 01:EXT5 .59 .031 No_date 3:34 32.07 n/a .000
04872> SUM= 1.0 01:EXT4 5.90 .243 No_date 3:40 38.60 n/a .000
04873> *****
04874> ROUTE CHANNEL -> 1.0 01:EXT4 5.90 .243 No_date 3:40 38.60 n/a .000
04875> [RT=1.00] out <= 1.0 01:EXT4 5.90 .229 No_date 3:48 38.60 n/a .000
04876> [L/S=251 / 190]
04877> [Vmax=.396:Omax=.298]
04878> *****
04879> R1996:C00038-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04880> ADD HYD + 1.0 01:EXT4 5.90 .229 No_date 3:48 38.60 n/a .000
04881> + 1.0 01:EXT6 .86 .048 No_date 3:40 42.02 n/a .000
04882> SUM= 1.0 01:EXT4 6.76 .277 No_date 3:48 39.33 n/a .000
04883> *****
04884> R1996:C00039-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04885> ROUTE CHANNEL -> 1.0 01:EXT5 7.24 .300 No_date 3:44 39.07 n/a .000
04886> [RT=1.00] out <= 1.0 01:EXT5 7.24 .295 No_date 3:49 39.07 n/a .000
04887> [L/S=644 / 644]
04888> [Vmax=.643:Omax=.279]
04889> *****
04890> R1996:C00040-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04891> ADD HYD + 1.0 01:Pre1_1 .80 .049 No_date 3:24 27.71 n/a .000
04892> + 1.0 01:Pre2_2 .01 .002 No_date 1:25 31.14 n/a .000
04893> SUM= 1.0 01:Pre1_1 .81 .049 No_date 3:24 27.71 n/a .000
04894> *****
04895> R1996:C00041-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04896> ROUTE CHANNEL -> 1.0 01:Pre1_1 .81 .049 No_date 3:24 27.71 n/a .000
04897> [RT=1.00] out <= 1.0 01:Pre1_1 .81 .049 No_date 3:27 27.71 n/a .000
04898> [L/S=77 / 776]
04899> [Vmax=.492:Omax=.036]
04900> *****
04901> R1996:C00042-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04902> ROUTE CHANNEL -> 1.0 01:Pre1_1 .44 .022 No_date 3:30 27.71 n/a .000
04903> [RT=1.00] out <= 1.0 01:Pre1_1 .44 .022 No_date 3:33 27.71 n/a .000
04904> [L/S=129 / 276]
04905> [Vmax=.797:Omax=.007]
04906> *****
04907> R1996:C00043-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04908> ADD HYD + 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04909> + 1.0 01:EXT10 .20 .010 No_date 3:32 27.70 n/a .000
04910> SUM= 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04911> *****
04912> R1996:C00044-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04913> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04914> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04915> [L/S=77 / 776]
04916> [Vmax=.492:Omax=.036]
04917> *****
04918> R1996:C00045-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04919> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04920> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04921> [L/S=77 / 776]
04922> [Vmax=.492:Omax=.036]
04923> *****
04924> R1996:C00046-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04925> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04926> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04927> [L/S=77 / 776]
04928> [Vmax=.492:Omax=.036]
04929> *****
04930> R1996:C00047-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04931> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04932> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04933> [L/S=77 / 776]
04934> [Vmax=.492:Omax=.036]
04935> *****
04936> R1996:C00048-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04937> ADD HYD + 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04938> + 1.0 01:EXT10 .20 .010 No_date 3:32 27.70 n/a .000
04939> SUM= 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04940> *****
04941> R1996:C00049-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04942> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04943> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04944> [L/S=77 / 776]
04945> [Vmax=.492:Omax=.036]
04946> *****
04947> R1996:C00050-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04948> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04949> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04950> [L/S=77 / 776]
04951> [Vmax=.492:Omax=.036]
04952> *****
04953> R1996:C00051-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04954> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04955> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04956> [L/S=77 / 776]
04957> [Vmax=.492:Omax=.036]
04958> *****
04959> R1996:C00052-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04960> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04961> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04962> [L/S=77 / 776]
04963> [Vmax=.492:Omax=.036]
04964> *****
04965> R1996:C00053-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04966> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04967> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04968> [L/S=77 / 776]
04969> [Vmax=.492:Omax=.036]
04970> *****
04971> R1996:C00054-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04972> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04973> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04974> [L/S=77 / 776]
04975> [Vmax=.492:Omax=.036]
04976> *****
04977> R1996:C00055-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04978> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04979> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04980> [L/S=77 / 776]
04981> [Vmax=.492:Omax=.036]
04982> *****
04983> R1996:C00056-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04984> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04985> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04986> [L/S=77 / 776]
04987> [Vmax=.492:Omax=.036]
04988> *****
04989> R1996:C00057-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04990> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04991> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04992> [L/S=77 / 776]
04993> [Vmax=.492:Omax=.036]
04994> *****
04995> R1996:C00058-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
04996> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
04997> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
04998> [L/S=77 / 776]
04999> [Vmax=.492:Omax=.036]
05000> *****
05001> R1996:C00059-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05002> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05003> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05004> [L/S=77 / 776]
05005> [Vmax=.492:Omax=.036]
05006> *****
05007> R1996:C00060-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05008> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05009> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05010> [L/S=77 / 776]
05011> [Vmax=.492:Omax=.036]
05012> *****
05013> R1996:C00061-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05014> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05015> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05016> [L/S=77 / 776]
05017> [Vmax=.492:Omax=.036]
05018> *****
05019> R1996:C00062-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05020> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05021> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05022> [L/S=77 / 776]
05023> [Vmax=.492:Omax=.036]
05024> *****
05025> R1996:C00063-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05026> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05027> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05028> [L/S=77 / 776]
05029> [Vmax=.492:Omax=.036]
05030> *****
05031> R1996:C00064-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05032> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05033> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05034> [L/S=77 / 776]
05035> [Vmax=.492:Omax=.036]
05036> *****
05037> R1996:C00065-----DtnIn-ID:INVD-----AREAh-QFEARcns-TpeakDate_hh:mm-----Rvm-R-C-----DWfms
05038> ROUTE CHANNEL -> 1.0 01:EXT6 .81 .049 No_date 3:27 27.95 n/a .000
05039> [RT=1.00] out <= 1.0 01:EXT6 .81 .049 No_date 3:32 27.70 n/a .000
05040> [L/S=77 / 776]
05041> [Vmax=.492
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05041: R9999:C00012-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05042: CALIB NASHVD 1.0 01:Pre#1_1 3.57 .297 No_date 1:134 40.95 .476 .000
05043: [Cm= 76.0: No 3.00: Tpe= .48]
05044: *****
05045: # EXT#4
05046: *****
05047: R9999:C00013-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05048: CALIB NASHVD 1.0 01:EXT#3a .01 .004 No_date 1:000 43.23 .503 .000
05049: [Cm= 76.0: No 3.00: Tpe= .04]
05050: *****
05051: # EXT#10
05052: *****
05053: R9999:C00014-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05054: CALIB NASHVD 1.0 01:EXT#10 .20 .016 No_date 1:129 35.74 .416 .000
05055: [Cm= 71.0: No 3.00: Tpe= .01]
05056: *****
05057: # Pre#1_1
05058: *****
05059: R9999:C00015-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05060: CALIB NASHVD 1.0 01:Pre#1_2 .07 .010 No_date 1:000 83.99 n/a .000
05061: [Cm= 72.0: No 3.00: Tpe= .03]
05062: *****
05063: # Pre#2_2
05064: *****
05065: R9999:C00016-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05066: CALIB NASHVD 1.0 01:Pre#2_2 .00 .001 No_date 1:000 43.22 .503 .000
05067: [Cm= 70.0: No 3.00: Tpe= .02]
05068: *****
05069: # Pre#1_1
05070: *****
05071: R9999:C00017-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05072: CALIB NASHVD 1.0 01:Pre#1_1 .44 .037 No_date 1:126 35.74 .416 .000
05073: [Cm= 71.0: No 3.00: Tpe= .38]
05074: *****
05075: # Pre#2_2
05076: *****
05077: R9999:C00018-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05078: CALIB NASHVD 1.0 01:Pre#2_2 .01 .004 No_date 1:000 39.84 .463 .000
05079: [Cm= 75.0: No 3.00: Tpe= .03]
05080: *****
05081: # Pre#1_1
05082: *****
05083: R9999:C00019-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05084: CALIB NASHVD 1.0 01:Pre#1_1 .80 .080 No_date 1:119 35.74 .416 .000
05085: [Cm= 71.0: No 3.00: Tpe= .01]
05086: *****
05087: # Pre#1_1
05088: *****
05089: R9999:C00020-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05090: CALIB NASHVD 1.0 01:Pre#1_1 .07 .010 No_date 1:133 43.23 .503 .000
05091: [Cm= 78.0: No 3.00: Tpe= .21]
05092: *****
05093: # Site 1
05094: *****
05095: R9999:C00021-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05096: DESIGN STANHYD 1.0 01:Site-#1 .42 .163 No_date 1:000 59.13 .688 .000
05097: [XIMP= 91.71TMP= .44]
05098: [SLP=1.00DT=1.00]
05099: [LOGS= 1 : HORTONS]
05100: *****
05101: # Site 1 - Roof
05102: *****
05103: R9999:C00022-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05104: DESIGN STANHYD 1.0 01:Site-Roof .06 .038 No_date 1:000 83.99 .977 .000
05105: [XIMP= 91.71TMP= .99]
05106: [SLP= .50DT=1.00]
05107: [LOGS= 1 : HORTONS]
05108: *****
05109: R9999:C00023-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05110: ROUTE RESERVOIR -> 1.0 02:Site-Roof .06 .038 No_date 1:000 83.99 n/a .000
05111: outflow <= 1.0 02:Site-Roof-Over .01 .031 No_date 1:000 83.99 n/a .000
05112: [MktotDsed=.2438E-01 n3, TotDsedVol=.9393E-01 n3, N-Over= 2, TotDsedVol=.6 hrs]
05113: R9999:C00024-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05114: ADD HYD 1.0 02:Site-#1 .42 .163 No_date 1:000 59.13 n/a .000
05115: + 1.0 02:Site-Roof-Over .01 .031 No_date 1:000 83.99 n/a .000
05116: + 1.0 02:Site-Roof-Over .01 .031 No_date 1:000 83.99 n/a .000
05117: SUM 1.0 02:Site-#1 .42 .163 No_date 1:000 59.13 n/a .000
05118: R9999:C00025-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05119: ROUTE RESERVOIR -> 1.0 02:Site-#1 .48 .202 No_date 1:000 62.48 n/a .000
05120: outflow <= 1.0 02:Site-#1-Over .00 .000 No_date 0:00 .00 n/a .000
05121: [MktotDsed=.164E-01 n3, TotDsedVol=.0000E+00 n3, N-Over= 0, TotDsedVol=.6 hrs]
05122: *****
05123: # Site 2
05124: *****
05125: R9999:C00026-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05126: DESIGN STANHYD 1.0 01:Site-#3 .36 .136 No_date 1:000 57.84 .673 .000
05127: [XIMP= 31.71TMP=.41]
05128: [SLP=1.00DT=1.00]
05129: [LOGS= 1 : HORTONS]
05130: *****
05131: # Site 2 - Roof
05132: *****
05133: R9999:C00027-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05134: DESIGN STANHYD 1.0 01:Site-Roof .09 .055 No_date 1:000 83.99 .977 .000
05135: [XIMP= 99.71TMP=.99]
05136: [SLP= 1.00DT=1.00]
05137: [LOGS= 1 : HORTONS]
05138: *****
05139: R9999:C00028-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05140: ROUTE RESERVOIR -> 1.0 02:Site-Roof .09 .055 No_date 1:000 83.99 n/a .000
05141: outflow <= 1.0 02:Site-Roof-Over .01 .044 No_date 1:000 83.99 n/a .000
05142: [MktotDsed=.3461E-02 n3, TotDsedVol=.7281E-01 n3, N-Over= 3, TotDsedVol=.6 hrs]
05143: R9999:C00029-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05144: ADD HYD 1.0 02:Site-#3 .36 .136 No_date 1:000 57.84 n/a .000
05145: + 1.0 02:Site-Roof-Over .01 .044 No_date 1:000 83.99 n/a .000
05146: + 1.0 02:Site-Roof-Over .01 .044 No_date 1:000 83.99 n/a .000
05147: SUM 1.0 02:Site-#3 .36 .136 No_date 1:000 57.84 n/a .000
05148: R9999:C00030-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05149: ROUTE RESERVOIR -> 1.0 02:Site-#1 .45 .191 No_date 1:000 63.24 n/a .000
05150: outflow <= 1.0 02:Site-#1-Over .45 .191 No_date 1:000 63.24 n/a .000
05151: [MktotDsed=.1938E-01 n3, TotDsedVol=.0000E+00 n3, N-Over= 0, TotDsedVol=.6 hrs]
05152: R9999:C00031-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05153: ADD HYD 1.0 02:Site-#1 .45 .191 No_date 1:000 63.24 n/a .000
05154: + 1.0 02:Site-#1-Over .00 .000 No_date 0:00 .00 n/a .000
05155: + 1.0 02:Site-#1-Over .00 .000 No_date 0:00 .00 n/a .000
05156: SUM 1.0 02:Site-#1 .45 .191 No_date 1:000 63.24 n/a .000
05157: R9999:C00032-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05158: ADD HYD 1.0 02:Site-#1 .45 .191 No_date 1:000 63.24 n/a .000
05159: + 1.0 02:Site-#1-Over .00 .000 No_date 0:00 .00 n/a .000
05160: + 1.0 02:Site-#1-Over .00 .000 No_date 0:00 .00 n/a .000
05161: SUM 1.0 02:Site-#1 .45 .191 No_date 1:000 63.24 n/a .000
05162: R9999:C00033-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05163: ADD HYD 1.0 02:EXT#2 .28 .041 No_date 1:121 52.43 n/a .000
05164: + 1.0 02:EXT#1 .59 .054 No_date 1:131 40.94 n/a .000
05165: + 1.0 02:Site#1 .45 .191 No_date 1:000 63.24 n/a .000
05166: + 1.0 02:Site#1 .45 .191 No_date 1:000 63.24 n/a .000
05167: SUM 1.0 02:EXT#1 .59 .054 No_date 1:121 52.43 n/a .000
05168: R9999:C00034-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05169: ROUTE CHANNEL -> 1.0 02:Pre#1 1.23 .065 No_date 1:128 60.16 n/a .000
05170: [RDT= 1.00 out= 1.0 01:Pre#1 1.23 .064 No_date 1:133 60.16 n/a .000]
05171: [L/S/m= 142. / 394 / 035]
05172: [Vmax= .373:Omax= .141]
05173: R9999:C00035-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05174: ADD HYD 1.0 02:EXT#3 .56 .070 No_date 1:121 45.67 n/a .000
05175: + 1.0 02:EXT#2 .31 .224 No_date 1:131 45.67 n/a .000
05176: + 1.0 02:EXT#1 .59 .054 No_date 1:131 40.94 n/a .000
05177: SUM 1.0 02:EXT#3 .56 .070 No_date 1:121 45.67 n/a .000
05178: R9999:C00036-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05179: ROUTE CHANNEL -> 1.0 02:EXT#2 5.00 .326 No_date 1:141 49.23 n/a .000
05180: [RDT= 1.00 out= 1.0 01:EXT#2 5.00 .326 No_date 1:143 49.23 n/a .000]
05181: [L/S/m= 79. / 429 / 035]
05182: [Vmax= .560:Omax= .312]
05183: R9999:C00037-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05184: ADD HYD 1.0 02:EXT#4 .31 .040 No_date 1:119 44.44 n/a .000
05185: + 1.0 02:EXT#3 .56 .070 No_date 1:121 45.67 n/a .000
05186: + 1.0 02:EXT#2 .31 .224 No_date 1:131 45.67 n/a .000
05187: SUM 1.0 02:EXT#4 .31 .040 No_date 1:119 44.44 n/a .000
05188: R9999:C00038-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05189: ROUTE CHANNEL -> 1.0 02:EXT#3 5.31 .350 No_date 1:139 48.95 n/a .000
05190: [RDT= 1.00 out= 1.0 01:EXT#3 5.31 .350 No_date 1:142 48.95 n/a .000]
05191: [L/S/m= 92. / 274 / 035]
05192: [Vmax= .458:Omax= .322]
05193: R9999:C00039-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05194: ADD HYD 1.0 02:EXT#4 5.31 .349 No_date 1:142 48.95 n/a .000
05195: + 1.0 02:EXT#3 .56 .070 No_date 1:121 45.67 n/a .000
05196: + 1.0 02:EXT#2 .31 .224 No_date 1:131 45.67 n/a .000
05197: SUM 1.0 02:EXT#4 5.31 .349 No_date 1:142 48.95 n/a .000
05198: R9999:C00040-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05199: ROUTE CHANNEL -> 1.0 02:EXT#3 5.90 .397 No_date 1:141 48.15 n/a .000
05200: [RDT= 1.00 out= 1.0 01:EXT#3 5.90 .397 No_date 1:148 48.15 n/a .000]
05201: [L/S/m= 237. / 190 / 035]
05202: [Vmax= .456:Omax= .371]
05203: R9999:C00041-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05204: ADD HYD 1.0 02:EXT#4 5.90 .380 No_date 1:150 48.15 n/a .000
05205: + 1.0 02:EXT#3 .56 .070 No_date 1:121 45.67 n/a .000
05206: + 1.0 02:EXT#2 .31 .224 No_date 1:131 45.67 n/a .000
05207: SUM 1.0 02:EXT#4 5.90 .380 No_date 1:150 48.15 n/a .000
05208: R9999:C00042-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05209: ROUTE CHANNEL -> 1.0 02:EXT#3 7.24 .499 No_date 1:144 48.75 n/a .000
05210: [RDT= 1.00 out= 1.0 01:EXT#3 7.24 .494 No_date 1:149 48.75 n/a .000]
05211: [L/S/m= 237. / 640 / 035]
05212: [Vmax= .748:Omax= .342]
05213: R9999:C00043-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05214: ADD HYD 1.0 02:Pre#1_1 .80 .080 No_date 1:119 35.74 n/a .000
05215: + 1.0 02:Pre#2_2 .01 .004 No_date 1:000 39.84 n/a .000
05216: + 1.0 02:Pre#1_2 .07 .010 No_date 1:000 83.99 n/a .000
05217: SUM 1.0 02:Pre#1_1 .80 .080 No_date 1:119 35.74 n/a .000
05218: R9999:C00044-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05219: ROUTE CHANNEL -> 1.0 02:Pre#1 .81 .081 No_date 1:119 35.83 n/a .000
05220: [RDT= 1.00 out= 1.0 01:Pre#1 .81 .080 No_date 1:122 35.83 n/a .000]
05221: [L/S/m= 77. / 776 / 035]
05222: [Vmax= .492:Omax= .059]
05223: R9999:C00045-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05224: ROUTE CHANNEL -> 1.0 02:Pre#1_1 .44 .037 No_date 1:126 35.74 n/a .000
05225: [RDT= 1.00 out= 1.0 01:Pre#1_1 .44 .036 No_date 1:130 35.74 n/a .000]
05226: [L/S/m= 129. / 376 / 035]
05227: [Vmax= .797:Omax= .011]
05228: R9999:C00046-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05229: ADD HYD 1.0 02:EXT#6 .81 .080 No_date 1:122 36.20 n/a .000
05230: + 1.0 02:EXT#10 .20 .016 No_date 1:129 35.74 n/a .000
05231: + 1.0 02:EXT#11 .07 .010 No_date 1:133 43.23 n/a .000
05232: + 1.0 02:EXT#9a .01 .004 No_date 1:000 43.23 n/a .000
05233: SUM 1.0 02:EXT#6 .81 .080 No_date 1:122 36.20 n/a .000
05234: R9999:C00047-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05235: ROUTE CHANNEL -> 1.0 02:EXT#6 1.10 .104 No_date 1:122 36.61 n/a .000
05236: [RDT= 1.00 out= 1.0 01:EXT#6 1.10 .103 No_date 1:125 36.61 n/a .000]
05237: [L/S/m= 79. / 522 / 035]
05238: [Vmax= .423:Omax= .076]
05239: R9999:C00048-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05240: ADD HYD 1.0 02:EXT#8 1.10 .103 No_date 1:125 36.80 n/a .000
05241: + 1.0 02:EXT#9 1.53 .138 No_date 1:126 36.64 n/a .000
05242: + 1.0 02:EXT#10 .20 .016 No_date 1:129 35.74 n/a .000
05243: SUM 1.0 02:EXT#8 1.10 .103 No_date 1:125 36.80 n/a .000
05244: ROUTE CHANNEL -> 1.0 02:EXT#7 1.53 .138 No_date 1:126 36.64 n/a .000
05245: [RDT= 1.00 out= 1.0 01:EXT#7 1.53 .138 No_date 1:127 36.64 n/a .000]
05246: [L/S/m= 29. / 897 / 035]
05247: [Vmax= .543:Omax= .094]
05248: R9999:C00049-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05249: ADD HYD 1.0 02:EXT#9 3.57 .297 No_date 1:134 40.95 n/a .000
05250: + 1.0 02:EXT#9 1.53 .138 No_date 1:127 36.75 n/a .000
05251: + 1.0 02:EXT#8 .83 .083 No_date 1:129 44.44 n/a .000
05252: + 1.0 02:EXT#5 7.24 .494 No_date 1:149 48.75 n/a .000
05253: SUM 1.0 02:EXT#9 3.57 .297 No_date 1:134 40.95 n/a .000
05254: R9999:C00051-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05255: ROUTE PIPE -> 1.0 02:EXT#8 13.18 .960 No_date 1:139 44.97 n/a .000
05256: [RDT= 1.00 out= 1.0 01:Outlet 13.18 .959 No_date 1:140 44.97 n/a .000]
05257: [L/S/m= 8. / 010 / 013]
05258: [Vmax= .492:Omax= 1.381]
05259: [dine .53:dsunde=1.68]
05260: *****
05261: *****
05262: R9999:C00052-----DtnIn-ID:INVD-----AREAh-QFEARCs-TpeakDate_hh:mm-----RvNm-R.C-----DWfms
05263: FINISH
05264: *****
05265: Warnings / Errors / Notes
05266: *****
05267: *****
05268: R0002:C00015 CALIB NASHVD
05269: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05270: R0002:C00016 CALIB NASHVD
05271: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05272: R0002:C00017 CALIB NASHVD
05273: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05274: R0002:C00051 ROUTE PIPE
05275: *** WARNING: New pipe size used for routing.
05276: R0005:C00015 CALIB NASHVD
05277: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05278: R0005:C00016 CALIB NASHVD
05279: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05280: R0005:C00018 CALIB NASHVD
05281: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05282: R0005:C00019 CALIB NASHVD
05283: *** WARNING: New pipe size used for routing.
05284: R0010:C00015 CALIB NASHVD
05285: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05286: R0010:C00016 CALIB NASHVD
05287: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05288: R0010:C00018 CALIB NASHVD
05289: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05290: R0010:C00019 CALIB NASHVD
05291: *** WARNING: New pipe size used for routing.
05292: R0025:C00015 CALIB NASHVD
05293: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05294: R0025:C00016 CALIB NASHVD
05295: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05296: R0025:C00018 CALIB NASHVD
05297: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05298: R0025:C00051 ROUTE PIPE
05299: *** WARNING: New pipe size used for routing.
05300: R0050:C00015 CALIB NASHVD
05301: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05302: R0050:C00016 CALIB NASHVD
05303: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05304: R0050:C00018 CALIB NASHVD
05305: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05306: R0050:C00051 ROUTE PIPE
05307: *** WARNING: New pipe size used for routing.
05308: R0099:C00015 CALIB NASHVD
05309: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05310: R0099:C00016 CALIB NASHVD
05311: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05312: R0099:C00018 CALIB NASHVD
05313: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05314: R0099:C00051 ROUTE PIPE
05315: *** WARNING: New pipe size used for routing.
05316: R0102:C00015 CALIB NASHVD
05317: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05318: R0102:C00016 CALIB NASHVD
05319: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05320: R0102:C00018 CALIB NASHVD
05321: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05322: R0102:C00019 CALIB NASHVD
05323: *** WARNING: New pipe size used for routing.
05324: R0105:C00015 CALIB NASHVD
05325: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05326: R0105:C00016 CALIB NASHVD
05327: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05328: R0105:C00018 CALIB NASHVD
05329: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05330: R0105:C00019 CALIB NASHVD
05331: *** WARNING: New pipe size used for routing.
05332: R0110:C00015 CALIB NASHVD
05333: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05334: R0110:C00016 CALIB NASHVD
05335: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05336: R0110:C00018 CALIB NASHVD
05337: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05338: R0110:C00051 ROUTE PIPE
05339: *** WARNING: New pipe size used for routing.
05340: R0121:C00015 CALIB NASHVD
05341: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05342: R0121:C00016 CALIB NASHVD
05343: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05344: R0125:C00018 CALIB NASHVD
05345: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05346: R0125:C00051 ROUTE PIPE
05347: *** WARNING: New pipe size used for routing.
05348: R0150:C00015 CALIB NASHVD
05349: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05350: R0150:C00016 CALIB NASHVD
05351: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05352: R0150:C00018 CALIB NASHVD
05353: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05354: R0150:C00051 ROUTE PIPE
05355: *** WARNING: New pipe size used for routing.
05356: R0199:C00015 CALIB NASHVD
05357: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05358: R0199:C00016 CALIB NASHVD
05359: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05360: R0199:C00018 CALIB NASHVD
05361: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05362: R0199:C00051 ROUTE PIPE
05363: *** WARNING: New pipe size used for routing.
05364: R0199:C00015 CALIB NASHVD
05365: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05366: R0199:C00016 CALIB NASHVD
05367: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05368: R0199:C00018 CALIB NASHVD
05369: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05370: R0199:C00051 ROUTE PIPE
05371: *** WARNING: New pipe size used for routing.
05372: R1988:C00015 CALIB NASHVD
05373: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05374: R1988:C00016 CALIB NASHVD
05375: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05376: R1988:C00018 CALIB NASHVD
05377: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05378: R1988:C00051 ROUTE PIPE
05379: *** WARNING: New pipe size used for routing.
05380: R1996:C00015 CALIB NASHVD
05381: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05382: R1996:C00016 CALIB NASHVD
05383: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05384: R1996:C00018 CALIB NASHVD
05385: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05386: R1996:C00051 ROUTE PIPE
05387: *** WARNING: New pipe size used for routing.
05388: R9999:C00015 CALIB NASHVD
05389: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05390: R9999:C00016 CALIB NASHVD
05391: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05392: R9999:C00018 CALIB NASHVD
05393: *** WARNING: Time step is too large for value of TP. RV may be ok. Peak flow could be off.
05394: R9999:C00051 ROUTE PIPE
05395: *** WARNING: New pipe size used for routing.
05396: Simulation ended on 2024-01-30 at 12:50:58
05397: *****
05398: *****
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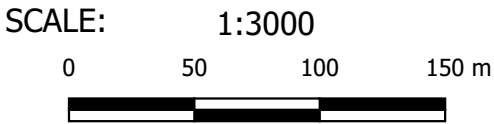
Attachment C

Hydraulic Analysis



Legend

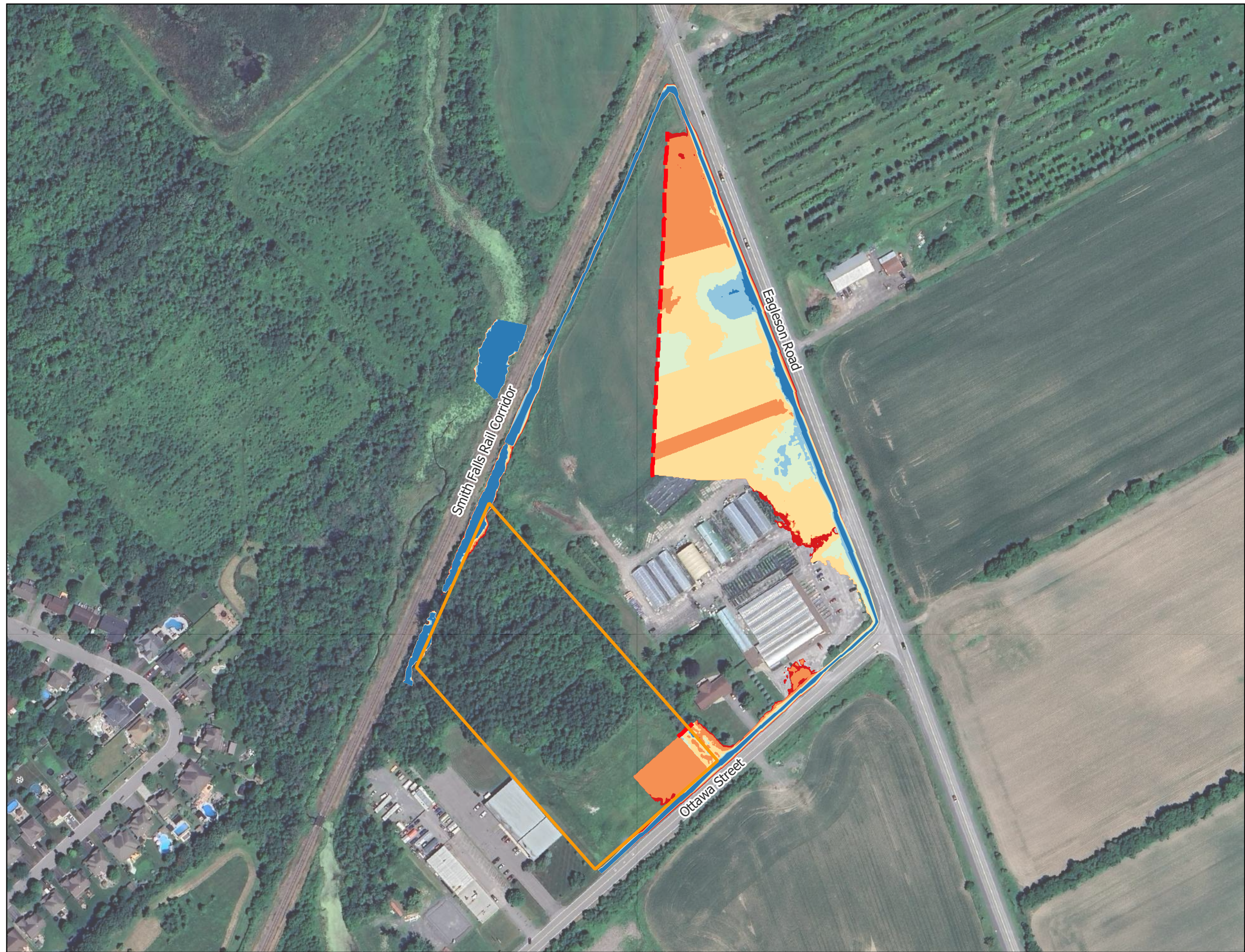
- Site Boundary
- Jock River Tributary
- Centerline
- HEC-RAS XS



5923 Ottawa St – Richmond

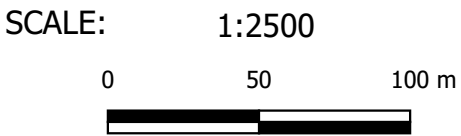
Figure C1: HEC-RAS Cross Sections

PROJECT	P2710(e01)
DRAWN	MM
DATE	10 Sept 2025



Legend

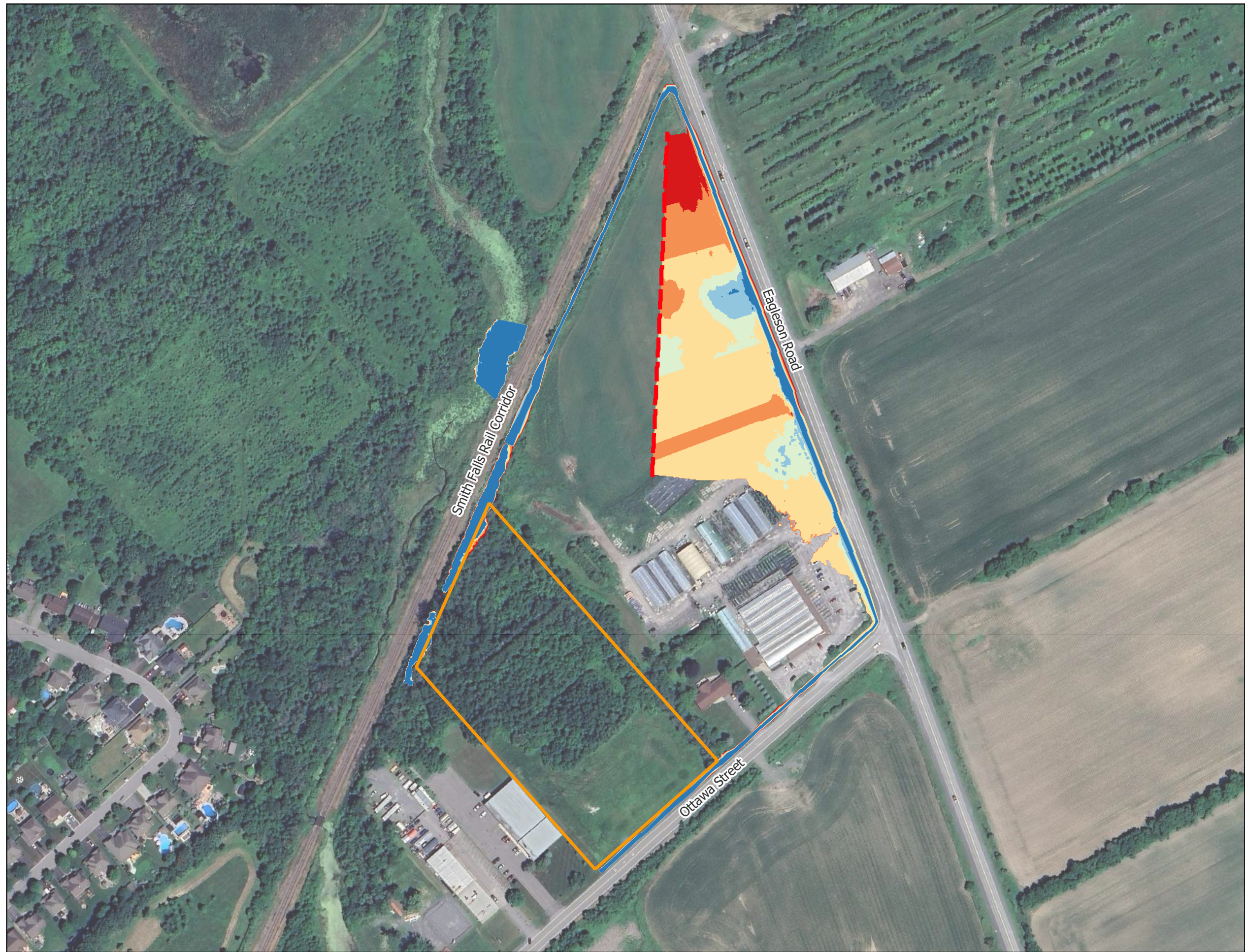
- Site Boundary
- Spill Line
- 2YrSCS24Hr
- 5YrSCS24Hr
- 10YrSCS24Hr
- 25YrSCS24Hr
- 50YrSCS24Hr
- 100YrSCS24Hr



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Figure C2: Pre-Development Flood Extents

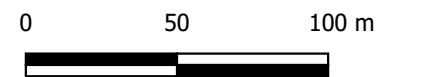
PROJECT	P2719(e01)
DRAWN	BT
DATE	01 April 2026



Legend

- Site Boundary
- Spill Line
- 2YrSCS24Hr
- 5YrSCS24Hr
- 10YrSCS24Hr
- 25YrSCS24Hr
- 50YrSCS24Hr
- 100YrSCS24Hr

SCALE: 1:2500



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Figure C3: Post-Development Flood Extents

PROJECT	P2719(e01)
DRAWN	BT
DATE	01 April 2026



Legend

- Site Boundary
- Spill Line
- Pre Dev 100 Year
- Post Dev 100 Year

SCALE: 1:2500

0 50 100 m



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Figure C4: 100-yr Floodplain Extents Comparison

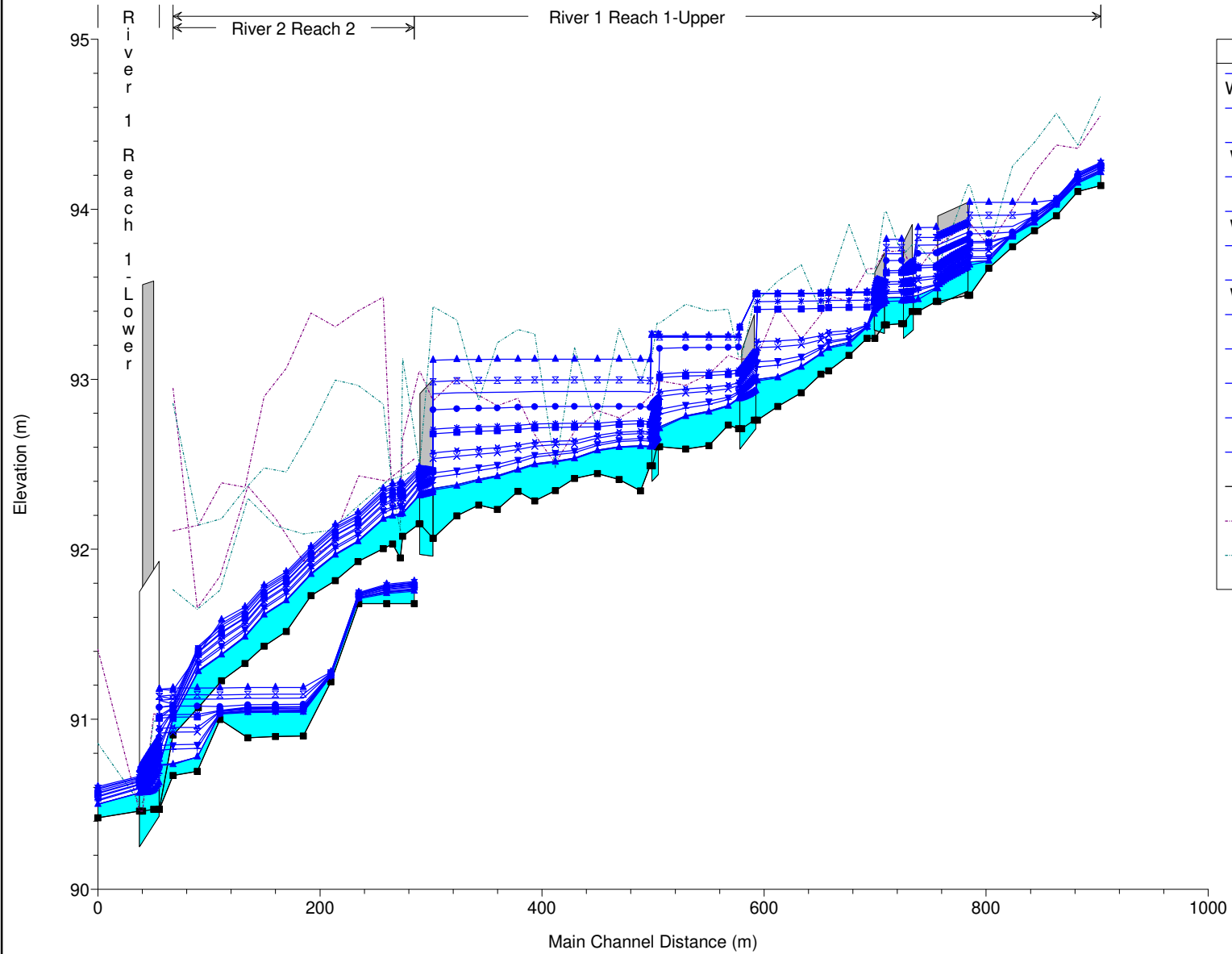
PROJECT	P2719(e01)
DRAWN	BT
DATE	10 Sept 2025

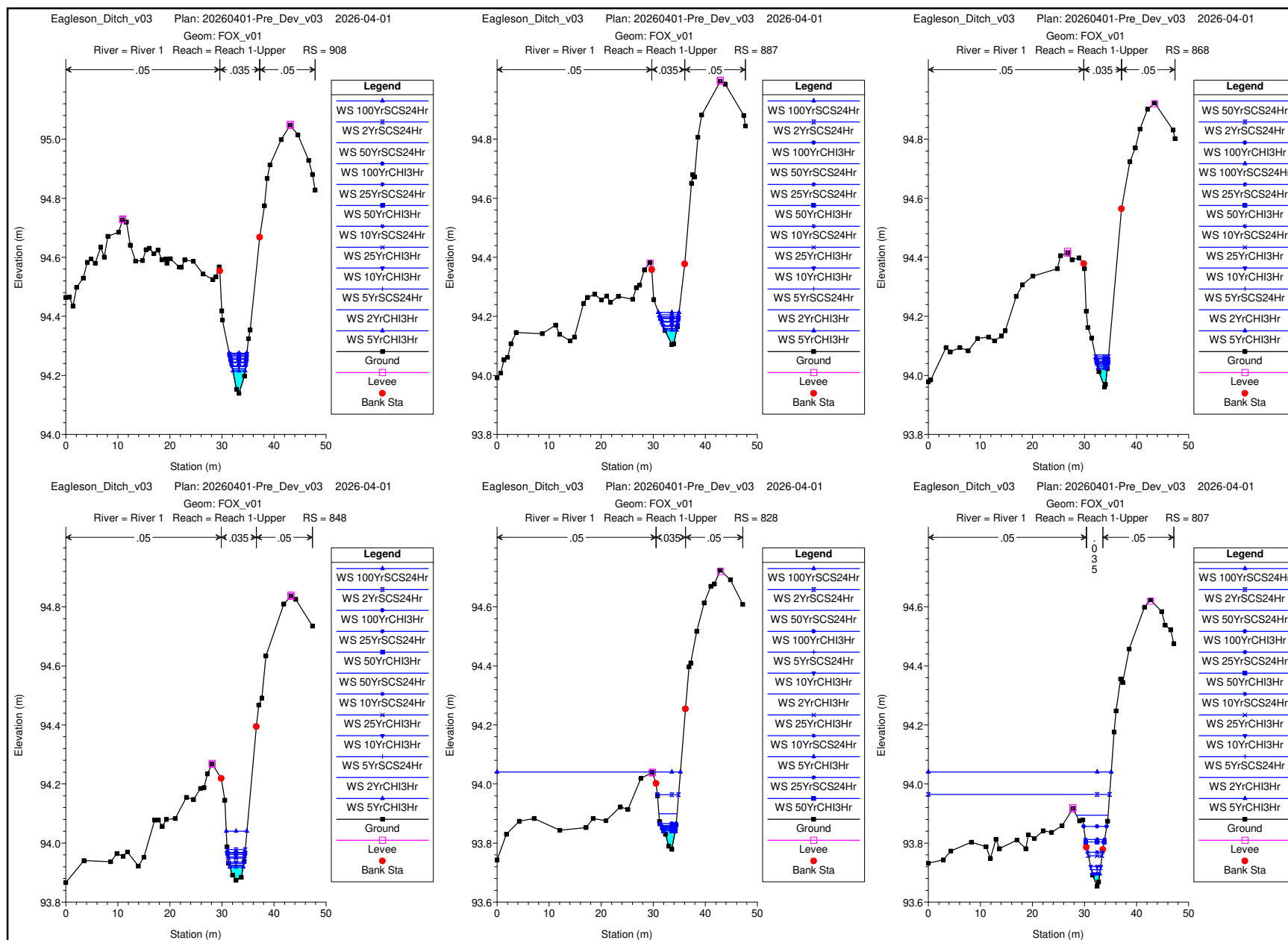
Eagleson_Ditch_v03

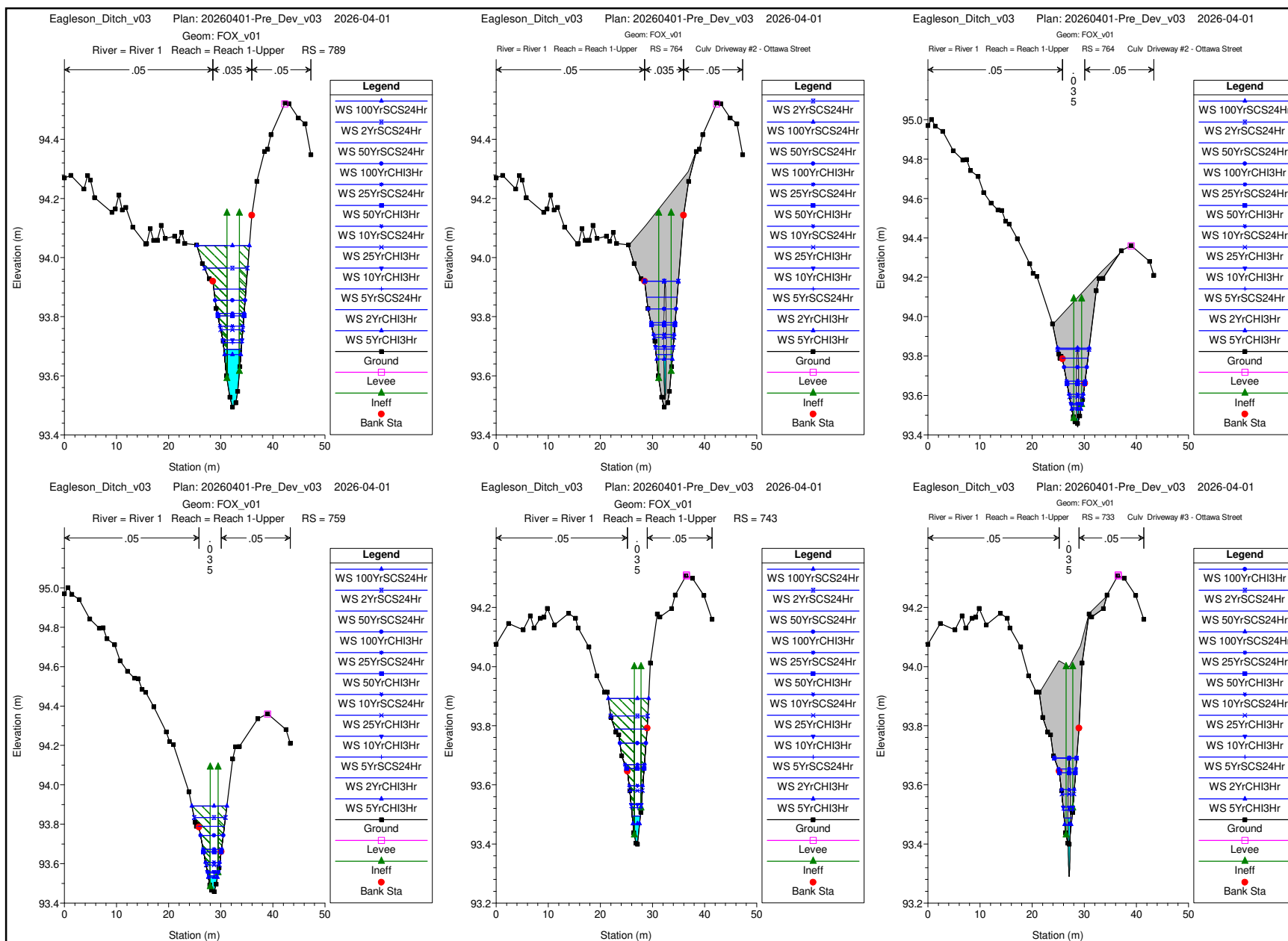
Plan: 20260401-Pre_Dev_v03

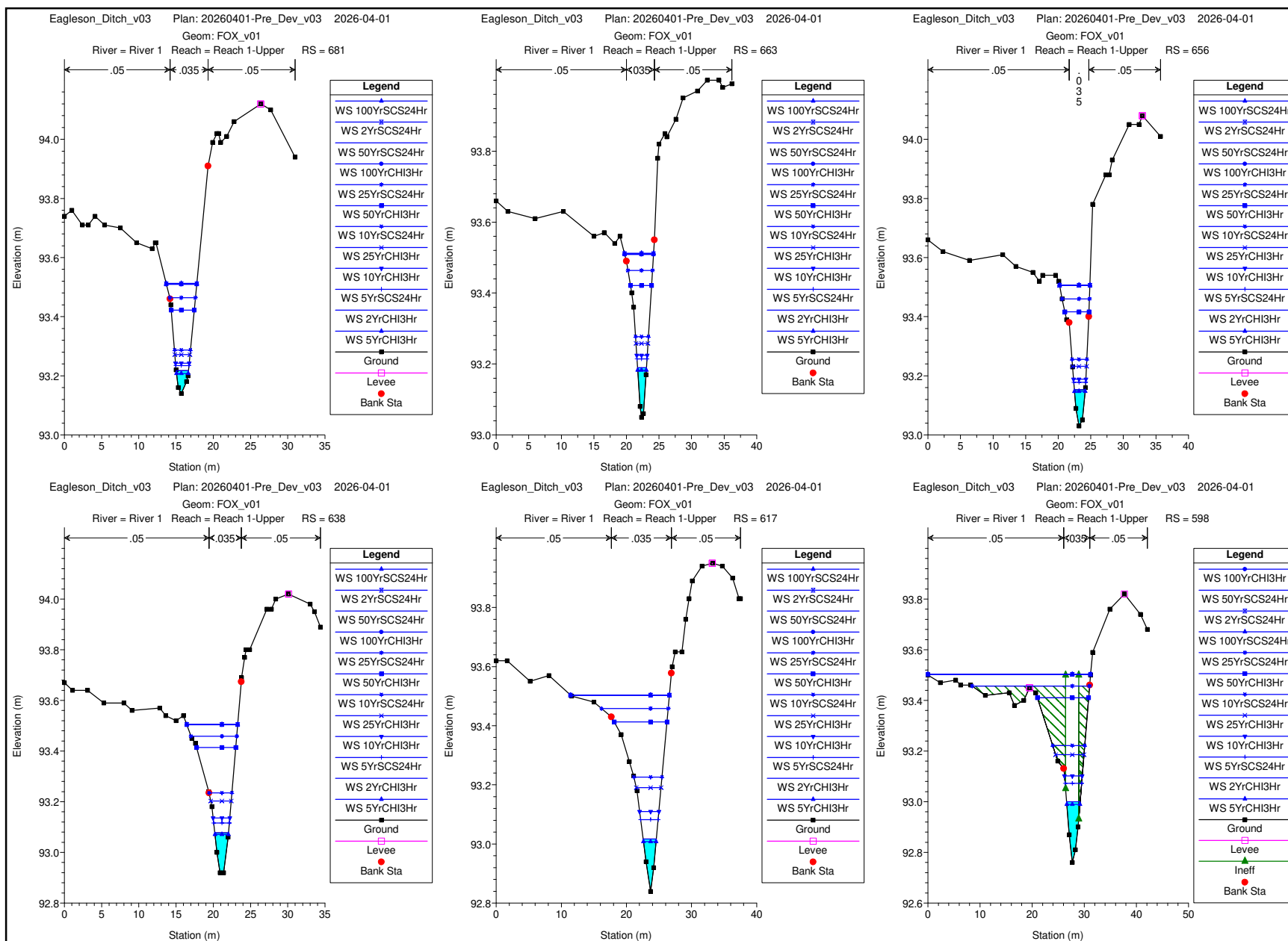
2026-04-01

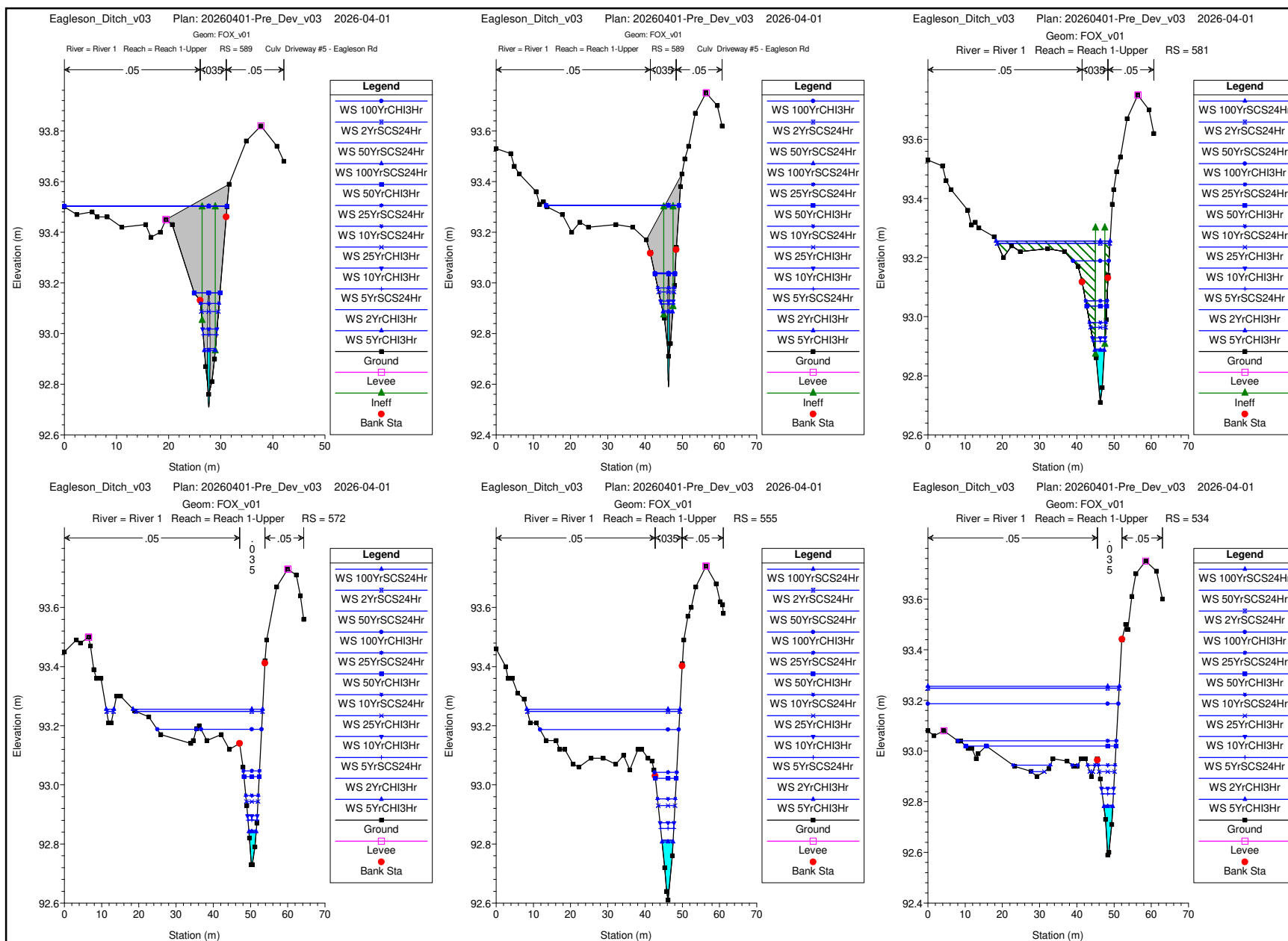
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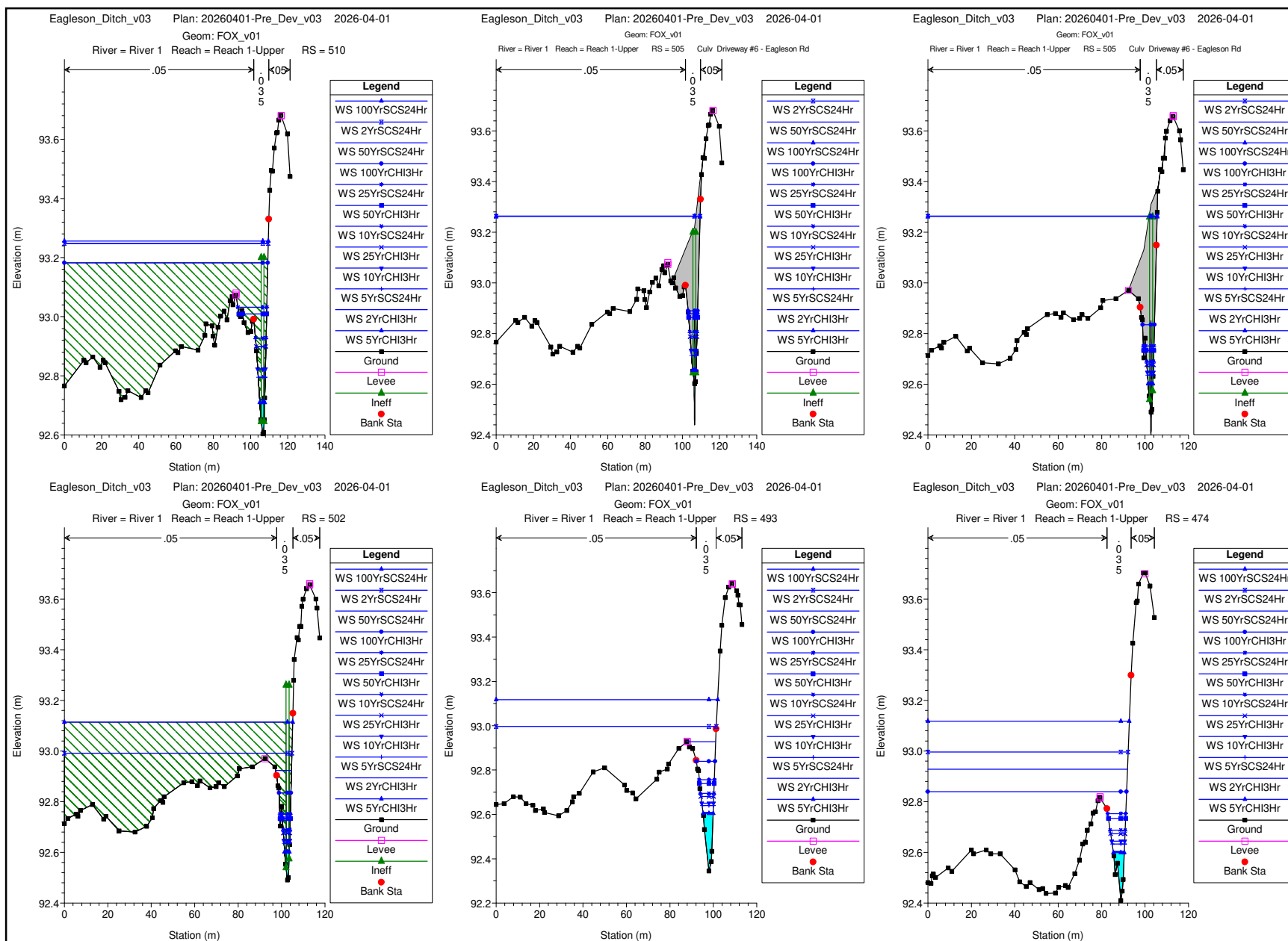


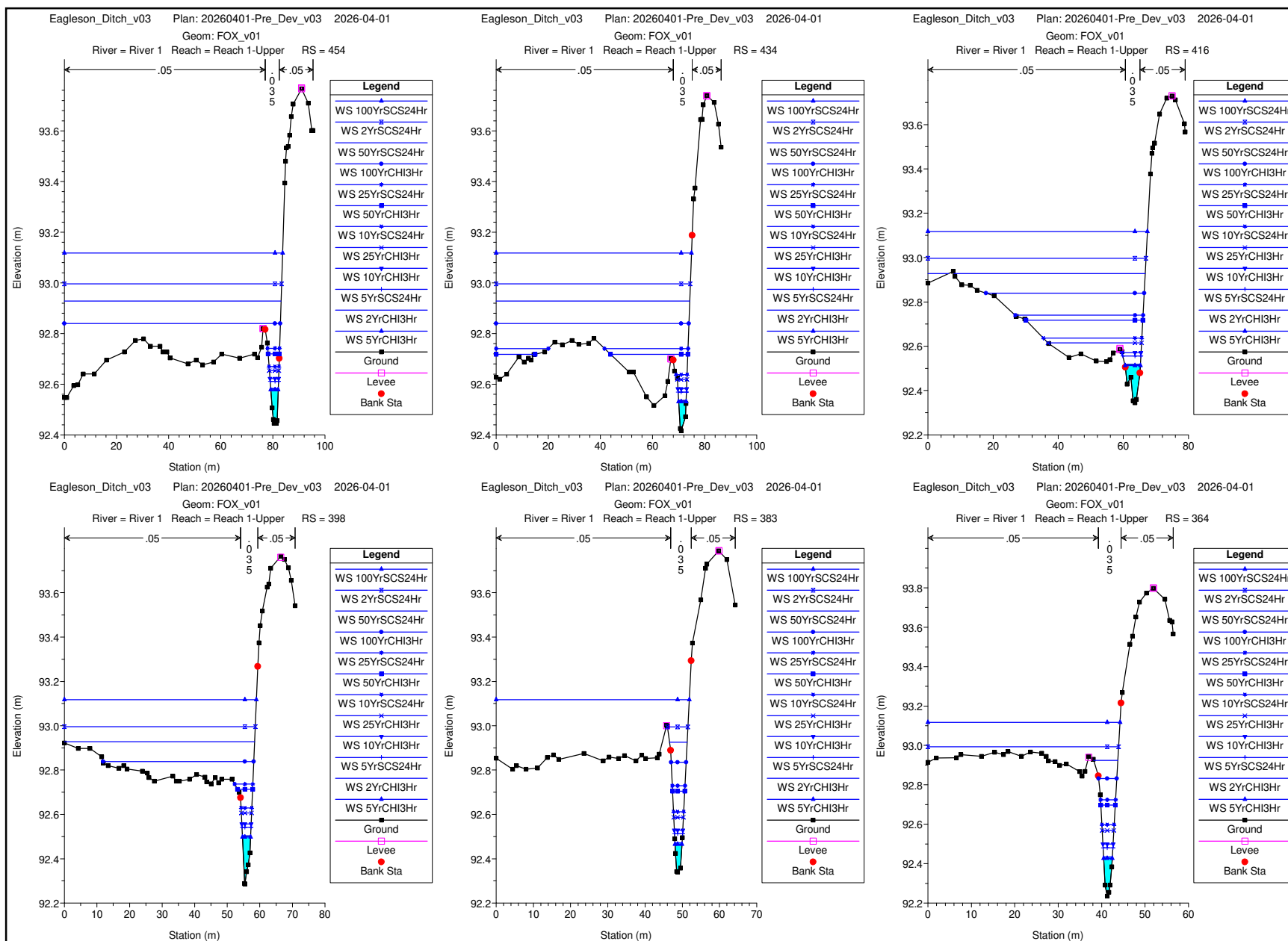


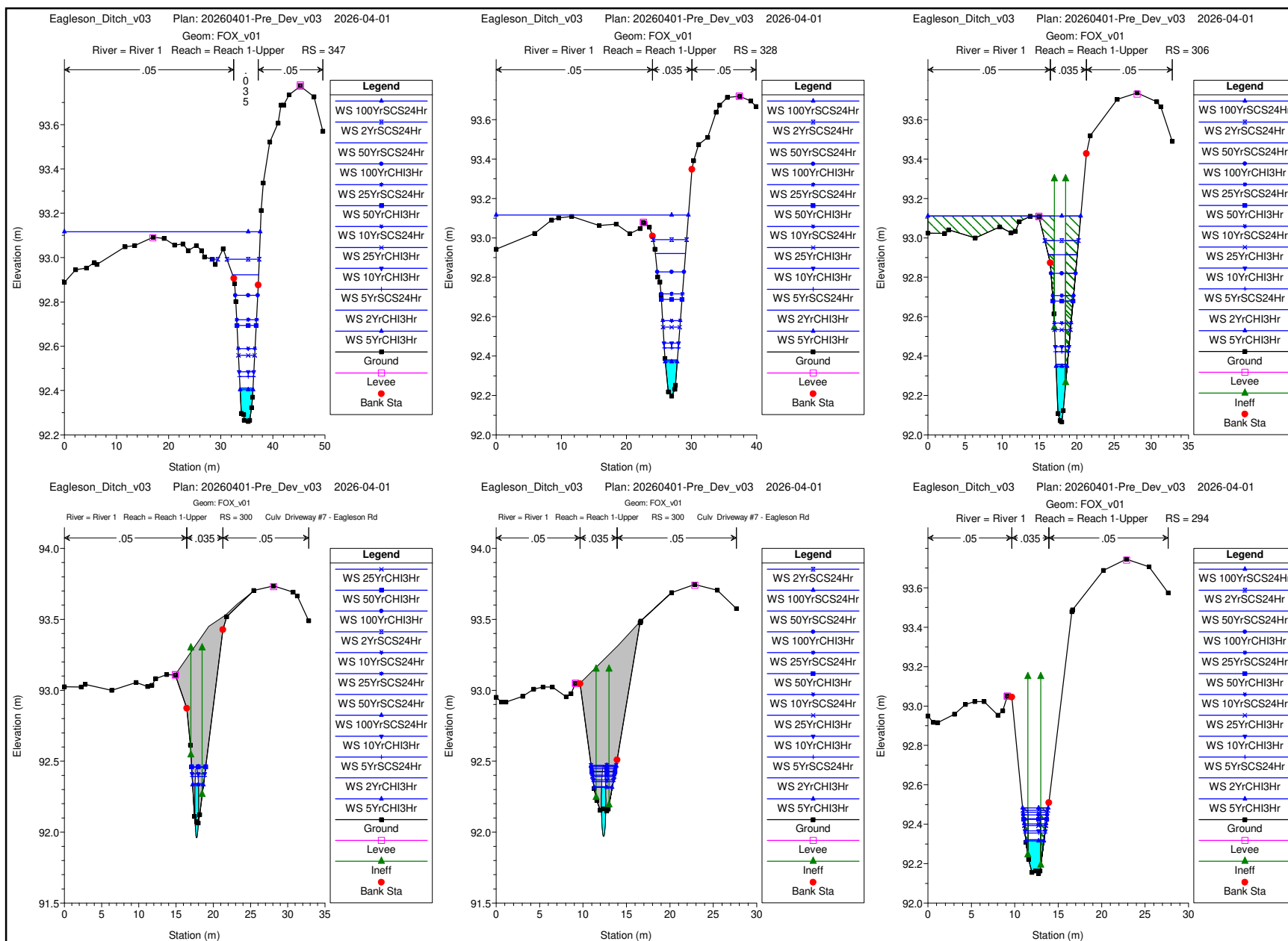


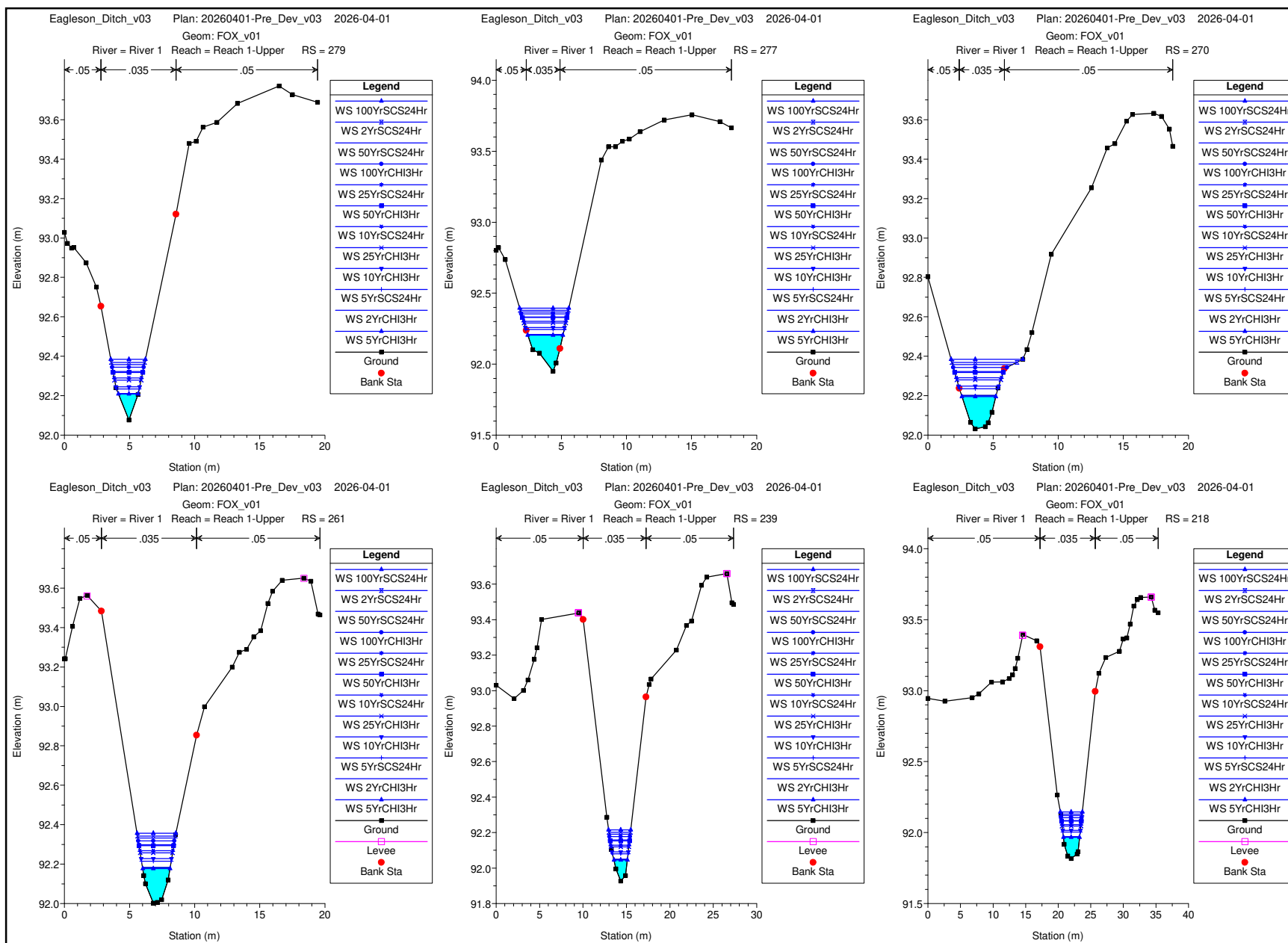


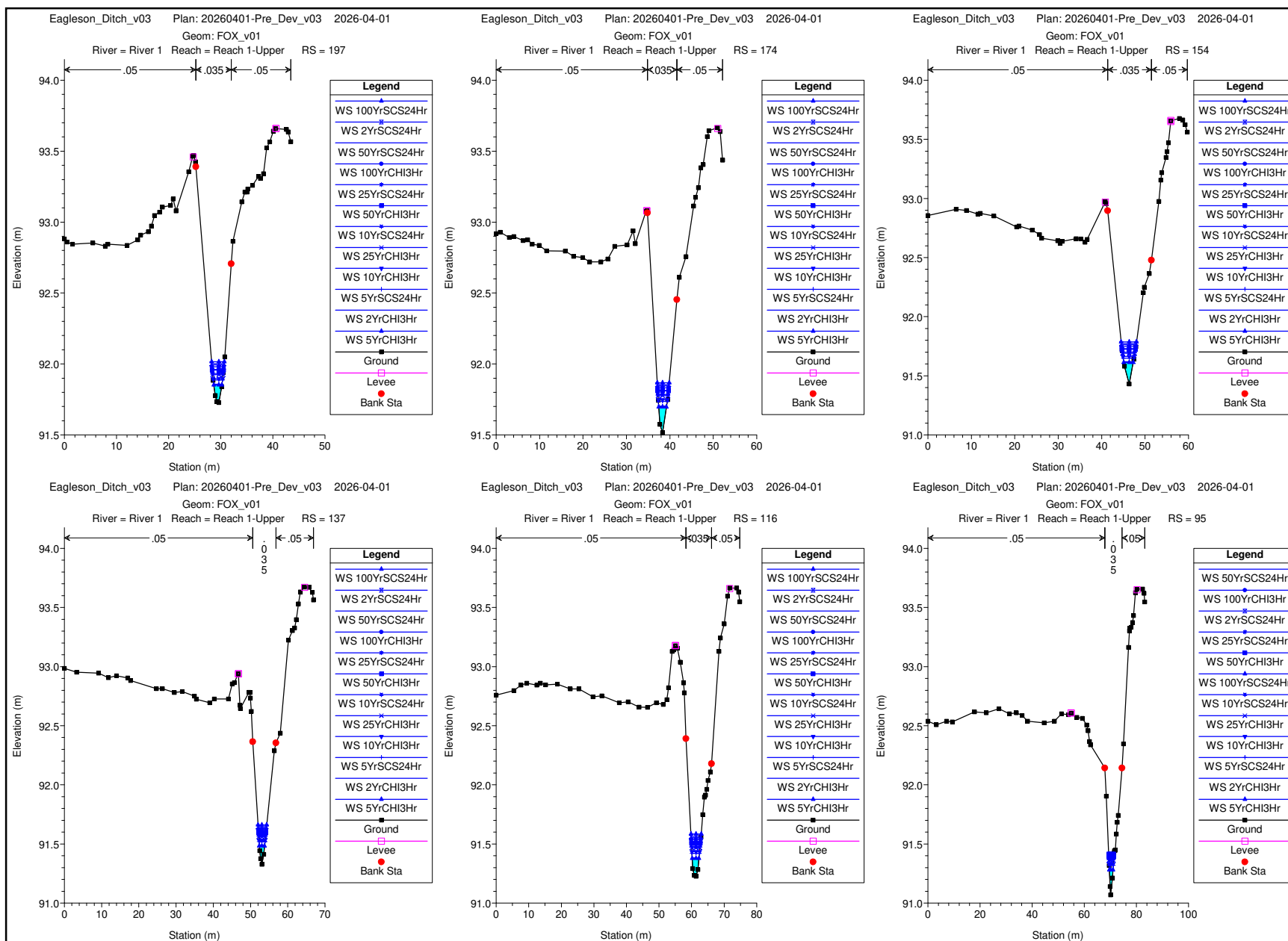


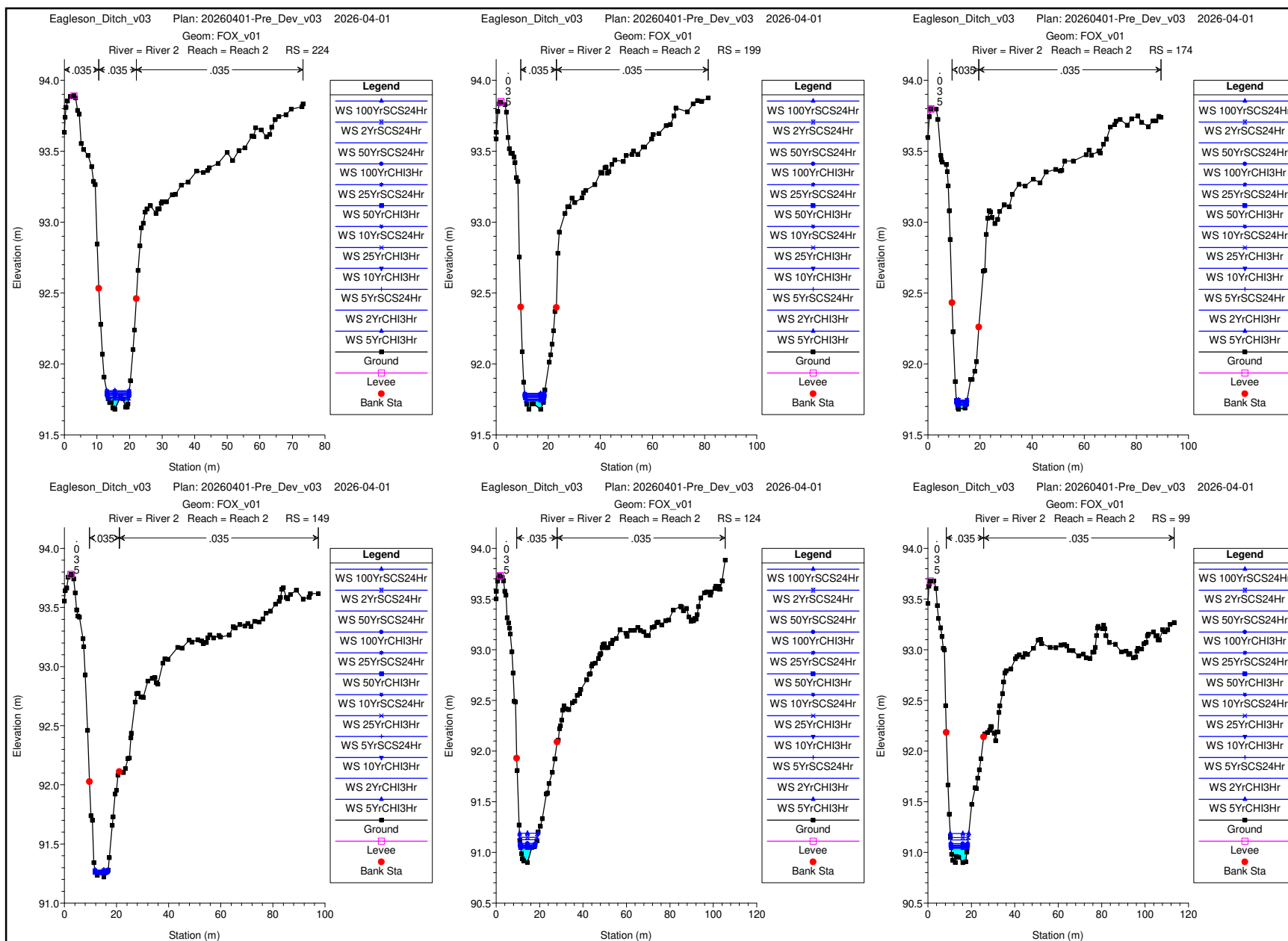


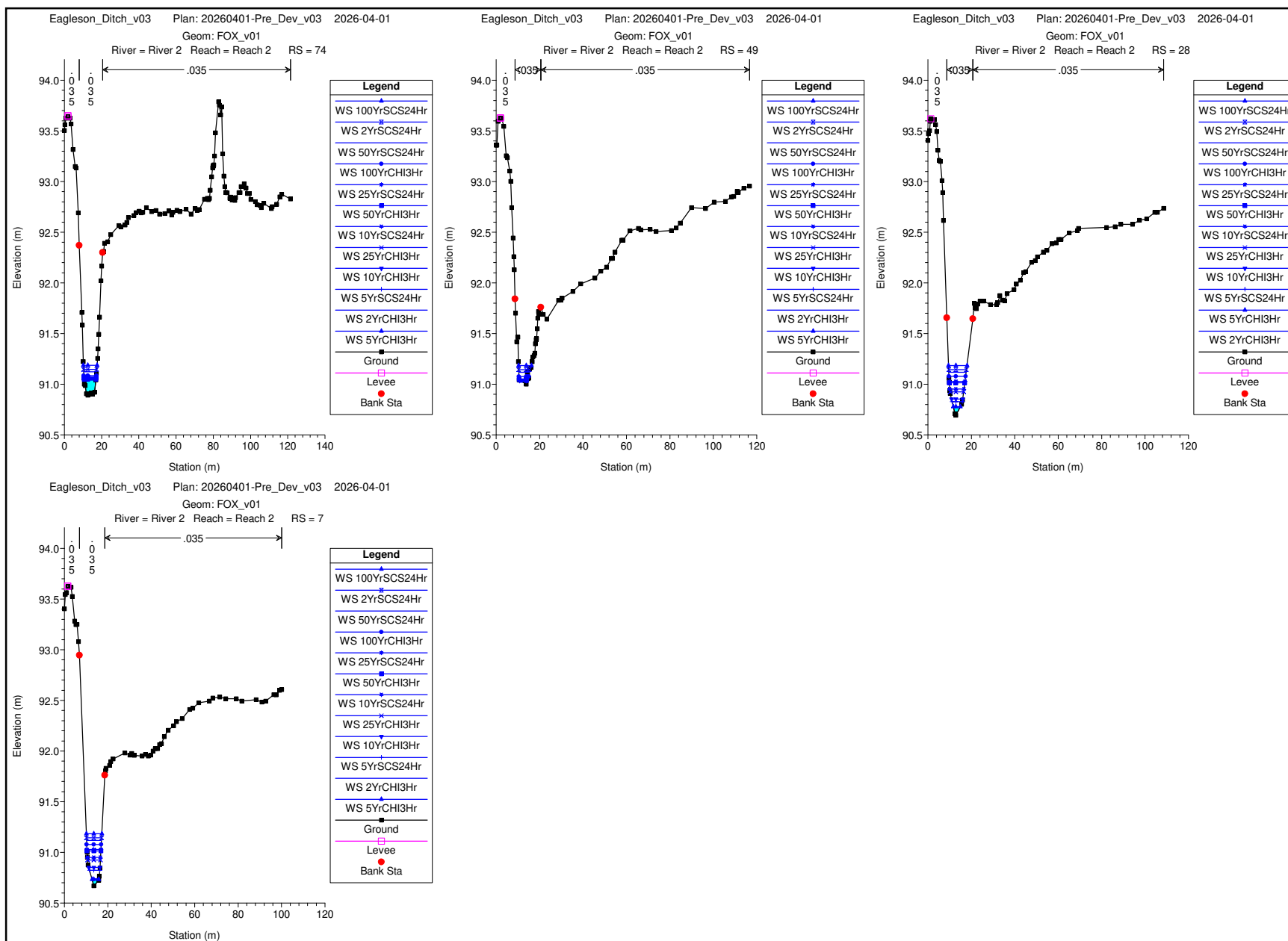












River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 2	Reach 2	224	2YrCHI3Hr	0.02	91.68	91.76	91.71	91.76	0.000707	0.09	0.24	5.69	0.14
River 2	Reach 2	224	5YrCHI3Hr	0.02	91.68	91.75	91.71	91.75	0.000626	0.08	0.20	5.09	0.13
River 2	Reach 2	224	10YrCHI3Hr	0.03	91.68	91.77	91.72	91.77	0.000751	0.10	0.28	6.26	0.15
River 2	Reach 2	224	25YrCHI3Hr	0.04	91.68	91.78	91.72	91.78	0.000754	0.11	0.34	6.52	0.15
River 2	Reach 2	224	50YrCHI3Hr	0.05	91.68	91.79	91.73	91.79	0.000757	0.12	0.42	6.66	0.16
River 2	Reach 2	224	100YrCHI3Hr	0.06	91.68	91.80	91.74	91.80	0.000766	0.13	0.47	6.76	0.16
River 2	Reach 2	224	2YrSCS24Hr	0.08	91.68	91.80	91.74	91.81	0.000793	0.14	0.53	6.86	0.17
River 2	Reach 2	224	5YrSCS24Hr	0.03	91.68	91.76	91.72	91.76	0.000730	0.10	0.26	5.99	0.15
River 2	Reach 2	224	10YrSCS24Hr	0.04	91.68	91.78	91.73	91.78	0.000755	0.12	0.37	6.57	0.16
River 2	Reach 2	224	25YrSCS24Hr	0.06	91.68	91.79	91.73	91.79	0.000760	0.13	0.44	6.70	0.16
River 2	Reach 2	224	50YrSCS24Hr	0.07	91.68	91.80	91.74	91.80	0.000771	0.14	0.52	6.84	0.16
River 2	Reach 2	224	100YrSCS24Hr	0.09	91.68	91.81	91.74	91.81	0.000797	0.15	0.57	6.94	0.17
River 2	Reach 2	199	2YrCHI3Hr	0.02	91.68	91.75	91.71	91.75	0.000472	0.08	0.29	6.89	0.12
River 2	Reach 2	199	5YrCHI3Hr	0.02	91.68	91.74	91.71	91.74	0.000450	0.07	0.24	6.76	0.11
River 2	Reach 2	199	10YrCHI3Hr	0.03	91.68	91.75	91.71	91.75	0.000492	0.08	0.34	7.01	0.12
River 2	Reach 2	199	25YrCHI3Hr	0.04	91.68	91.76	91.72	91.76	0.000522	0.10	0.40	7.18	0.13
River 2	Reach 2	199	50YrCHI3Hr	0.05	91.68	91.77	91.72	91.77	0.000557	0.11	0.48	7.38	0.14
River 2	Reach 2	199	100YrCHI3Hr	0.06	91.68	91.78	91.72	91.78	0.000577	0.12	0.53	7.47	0.14
River 2	Reach 2	199	2YrSCS24Hr	0.08	91.68	91.79	91.73	91.79	0.000625	0.13	0.59	7.55	0.15
River 2	Reach 2	199	5YrSCS24Hr	0.03	91.68	91.75	91.71	91.75	0.000479	0.08	0.31	6.96	0.12
River 2	Reach 2	199	10YrSCS24Hr	0.04	91.68	91.77	91.72	91.77	0.000539	0.10	0.43	7.26	0.13
River 2	Reach 2	199	25YrSCS24Hr	0.06	91.68	91.78	91.72	91.78	0.000565	0.11	0.50	7.42	0.14
River 2	Reach 2	199	50YrSCS24Hr	0.07	91.68	91.79	91.73	91.79	0.000587	0.13	0.58	7.55	0.14
River 2	Reach 2	199	100YrSCS24Hr	0.09	91.68	91.79	91.73	91.79	0.000632	0.14	0.64	7.63	0.15
River 2	Reach 2	174	2YrCHI3Hr	0.02	91.68	91.71	91.70	91.72	0.008556	0.24	0.09	3.50	0.46
River 2	Reach 2	174	5YrCHI3Hr	0.02	91.68	91.71	91.70	91.71	0.009341	0.22	0.07	3.33	0.47
River 2	Reach 2	174	10YrCHI3Hr	0.03	91.68	91.72	91.70	91.72	0.009515	0.27	0.11	3.59	0.49
River 2	Reach 2	174	25YrCHI3Hr	0.04	91.68	91.72	91.71	91.73	0.009556	0.30	0.13	3.72	0.51
River 2	Reach 2	174	50YrCHI3Hr	0.05	91.68	91.73	91.72	91.74	0.010094	0.34	0.15	3.87	0.54
River 2	Reach 2	174	100YrCHI3Hr	0.06	91.68	91.74	91.72	91.74	0.009997	0.36	0.18	3.98	0.54
River 2	Reach 2	174	2YrSCS24Hr	0.08	91.68	91.74	91.72	91.75	0.010128	0.38	0.20	4.07	0.55
River 2	Reach 2	174	5YrSCS24Hr	0.03	91.68	91.71	91.70	91.72	0.010728	0.27	0.09	3.51	0.52
River 2	Reach 2	174	10YrSCS24Hr	0.04	91.68	91.73	91.71	91.73	0.010224	0.32	0.14	3.76	0.53
River 2	Reach 2	174	25YrSCS24Hr	0.06	91.68	91.73	91.72	91.74	0.010004	0.34	0.16	3.91	0.54
River 2	Reach 2	174	50YrSCS24Hr	0.07	91.68	91.74	91.72	91.75	0.010491	0.38	0.19	4.05	0.56
River 2	Reach 2	174	100YrSCS24Hr	0.09	91.68	91.75	91.73	91.75	0.011046	0.41	0.21	4.11	0.58
River 2	Reach 2	149	2YrCHI3Hr	0.02	91.22	91.26	91.26	91.26	0.061119	0.41	0.05	3.77	1.11
River 2	Reach 2	149	5YrCHI3Hr	0.02	91.22	91.25	91.25	91.26	0.049600	0.35	0.05	3.45	0.99
River 2	Reach 2	149	10YrCHI3Hr	0.03	91.22	91.26	91.26	91.27	0.047461	0.40	0.07	4.38	1.00
River 2	Reach 2	149	25YrCHI3Hr	0.04	91.22	91.26	91.26	91.27	0.047907	0.44	0.09	4.54	1.03
River 2	Reach 2	149	50YrCHI3Hr	0.05	91.22	91.27	91.27	91.28	0.043351	0.48	0.11	4.71	1.01
River 2	Reach 2	149	100YrCHI3Hr	0.06	91.22	91.27	91.27	91.28	0.044171	0.52	0.12	4.81	1.04
River 2	Reach 2	149	2YrSCS24Hr	0.08	91.22	91.27	91.27	91.29	0.042366	0.55	0.14	4.94	1.04
River 2	Reach 2	149	5YrSCS24Hr	0.03	91.22	91.26	91.26	91.27	0.037267	0.35	0.07	4.39	0.89
River 2	Reach 2	149	10YrSCS24Hr	0.04	91.22	91.27	91.27	91.28	0.041591	0.44	0.10	4.62	0.98
River 2	Reach 2	149	25YrSCS24Hr	0.06	91.22	91.27	91.27	91.28	0.043743	0.49	0.11	4.75	1.02
River 2	Reach 2	149	50YrSCS24Hr	0.07	91.22	91.27	91.27	91.29	0.040131	0.53	0.14	4.93	1.01
River 2	Reach 2	149	100YrSCS24Hr	0.09	91.22	91.28	91.28	91.29	0.036673	0.55	0.16	5.05	0.98
River 2	Reach 2	124	2YrCHI3Hr	0.02	90.90	91.05	90.93	91.05	0.000051	0.04	0.51	5.20	0.04
River 2	Reach 2	124	5YrCHI3Hr	0.02	90.90	91.04	90.93	91.04	0.000032	0.03	0.48	5.07	0.03
River 2	Reach 2	124	10YrCHI3Hr	0.03	90.90	91.05	90.94	91.05	0.000070	0.05	0.54	5.32	0.05
River 2	Reach 2	124	25YrCHI3Hr	0.04	90.90	91.06	90.94	91.06	0.000126	0.06	0.59	6.58	0.07
River 2	Reach 2	124	50YrCHI3Hr	0.05	90.90	91.07	90.95	91.07	0.000169	0.08	0.66	6.85	0.08
River 2	Reach 2	124	100YrCHI3Hr	0.06	90.90	91.09	90.95	91.09	0.000156	0.08	0.78	7.22	0.08
River 2	Reach 2	124	2YrSCS24Hr	0.08	90.90	91.15	90.96	91.15	0.000057	0.06	1.24	8.13	0.05
River 2	Reach 2	124	5YrSCS24Hr	0.03	90.90	91.05	90.93	91.05	0.000060	0.05	0.53	5.26	0.05
River 2	Reach 2	124	10YrSCS24Hr	0.04	90.90	91.07	90.94	91.07	0.000142	0.07	0.62	6.68	0.07
River 2	Reach 2	124	25YrSCS24Hr	0.06	90.90	91.08	90.95	91.08	0.000180	0.08	0.68	6.92	0.08
River 2	Reach 2	124	50YrSCS24Hr	0.07	90.90	91.12	90.95	91.13	0.000087	0.07	1.05	7.91	0.06
River 2	Reach 2	124	100YrSCS24Hr	0.09	90.90	91.19	90.96	91.19	0.000036	0.06	1.57	8.52	0.04
River 2	Reach 2	99	2YrCHI3Hr	0.02	90.90	91.05	90.92	91.05	0.000015	0.03	0.85	7.48	0.02
River 2	Reach 2	99	5YrCHI3Hr	0.02	90.90	91.04	90.92	91.04	0.000010	0.02	0.80	7.44	0.02
River 2	Reach 2	99	10YrCHI3Hr	0.03	90.90	91.05	90.93	91.05	0.000021	0.03	0.89	7.53	0.03
River 2	Reach 2	99	25YrCHI3Hr	0.04	90.90	91.06	90.93	91.06	0.000031	0.04	0.95	7.59	0.04
River 2	Reach 2	99	50YrCHI3Hr	0.05	90.90	91.07	90.94	91.07	0.000046	0.05	1.03	7.67	0.04
River 2	Reach 2	99	100YrCHI3Hr	0.06	90.90	91.09	90.94	91.09	0.000047	0.05	1.16	7.80	0.05
River 2	Reach 2	99	2YrSCS24Hr	0.08	90.90	91.15	90.94	91.15	0.000023	0.05	1.64	8.27	0.03
River 2	Reach 2	99	5YrSCS24Hr	0.03	90.90	91.05	90.92	91.05	0.000018	0.03	0.87	7.51	0.03
River 2	Reach 2	99	10YrSCS24Hr	0.04	90.90	91.06	90.93	91.06	0.000037	0.04	0.98	7.62	0.04
River 2	Reach 2	99	25YrSCS24Hr	0.06	90.90	91.07	90.94	91.07	0.000050	0.05	1.05	7.69	0.05
River 2	Reach 2	99	50YrSCS24Hr	0.07	90.90	91.12	90.94	91.12	0.000031	0.05	1.45	8.09	0.04
River 2	Reach 2	99	100YrSCS24Hr	0.09	90.90	91.19	90.95	91.19	0.000017	0.04	1.98	8.57	0.03
River 2	Reach 2	74	2YrCHI3Hr	0.02	90.89	91.05	90.92	91.05	0.000018	0.03	0.76	6.42	0.03
River 2	Reach 2	74	5YrCHI3Hr	0.02	90.89	91.04	90.91	91.04	0.000011	0.02	0.72	6.36	0.02
River 2	Reach 2	74	10YrCHI3Hr	0.03	90.89	91.05	90.92	91.05	0.000025	0.04	0.80	6.46	0.03
River 2	Reach 2	74	25YrCHI3Hr	0.04	90.89	91.06	90.92	91.06	0.000038	0.04	0.85	6.52	0.04
River 2	Reach 2	74	50YrCHI3Hr	0.05	90.89	91.07	90.93	91.07	0.000056	0.06	0.91	6.60	0.05
River 2	Reach 2	74	100YrCHI3Hr	0.06	90.89	91.09	90.93	91.09	0.000058	0.06	1.02	6.72	0.05
River 2	Reach 2	74	2YrSCS24Hr	0.08	90.89	91.15	90.93	91.15	0.000029	0.05	1.44	7.11	0.04
River 2	Reach 2	74	5YrSCS24Hr	0.03	90.89	91.05	90.92	91.05	0.000021	0.03	0.78	6.44	0.03
River 2	Reach 2	74	10YrSCS24Hr	0.04	90.89	91.06	90.93	91.06	0.000044	0.05	0.87	6.55	0.04
River 2	Reach 2	74	25YrSCS24Hr	0.06	90.89	91.07	90.93	91.07	0.000062	0.06	0.93	6.62	0.05
River 2	Reach 2	74	50YrSCS24Hr	0.07	90.89	91.12	90.93	91.12	0.000039	0.06	1.27	6.97	0.04
River 2	Reach 2	74	100YrSCS24Hr	0.09	90.89	91.19	90.94	91.19	0.000022	0.05	1.73	7.35	0.03

HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 2	Reach 2	49	2YrCHI3Hr	0.02	91.00	91.04	91.04	91.04	0.041786	0.40	0.05	2.97	0.96
River 2	Reach 2	49	5YrCHI3Hr	0.02	91.00	91.03	91.03	91.04	0.048683	0.40	0.04	2.56	1.01
River 2	Reach 2	49	10YrCHI3Hr	0.03	91.00	91.04	91.04	91.05	0.047918	0.45	0.06	3.17	1.04
River 2	Reach 2	49	25YrCHI3Hr	0.04	91.00	91.04	91.04	91.05	0.036540	0.45	0.08	3.51	0.94
River 2	Reach 2	49	50YrCHI3Hr	0.05	91.00	91.05	91.05	91.06	0.040961	0.53	0.10	3.53	1.01
River 2	Reach 2	49	100YrCHI3Hr	0.06	91.00	91.08	91.05	91.08	0.006749	0.31	0.20	4.07	0.45
River 2	Reach 2	49	2YrSCS24Hr	0.08	91.00	91.14	91.06	91.14	0.000562	0.15	0.51	4.98	0.15
River 2	Reach 2	49	5YrSCS24Hr	0.03	91.00	91.04	91.04	91.05	0.045843	0.43	0.06	3.06	1.01
River 2	Reach 2	49	10YrSCS24Hr	0.04	91.00	91.05	91.05	91.06	0.034072	0.47	0.09	3.52	0.92
River 2	Reach 2	49	25YrSCS24Hr	0.06	91.00	91.05	91.05	91.07	0.033949	0.51	0.11	3.55	0.94
River 2	Reach 2	49	50YrSCS24Hr	0.07	91.00	91.12	91.06	91.12	0.001250	0.19	0.39	4.83	0.21
River 2	Reach 2	49	100YrSCS24Hr	0.09	91.00	91.18	91.06	91.19	0.000276	0.12	0.74	5.95	0.11
River 2	Reach 2	28	2YrCHI3Hr	0.02	90.69	90.78	90.74	90.78	0.001371	0.13	0.15	3.29	0.20
River 2	Reach 2	28	5YrCHI3Hr	0.02	90.69	90.78	90.74	90.78	0.001282	0.13	0.15	3.33	0.20
River 2	Reach 2	28	10YrCHI3Hr	0.04	90.69	90.85	90.75	90.85	0.000177	0.08	0.48	5.18	0.08
River 2	Reach 2	28	25YrCHI3Hr	0.05	90.69	90.93	90.76	90.93	0.000052	0.06	0.90	6.29	0.05
River 2	Reach 2	28	50YrCHI3Hr	0.07	90.69	91.01	90.76	91.01	0.000022	0.05	1.49	7.15	0.03
River 2	Reach 2	28	100YrCHI3Hr	0.08	90.69	91.08	90.77	91.08	0.000014	0.04	1.97	7.69	0.03
River 2	Reach 2	28	2YrSCS24Hr	0.10	90.69	91.14	90.78	91.14	0.000010	0.04	2.49	8.18	0.02
River 2	Reach 2	28	5YrSCS24Hr	0.03	90.69	90.83	90.75	90.83	0.000352	0.10	0.36	4.70	0.11
River 2	Reach 2	28	10YrSCS24Hr	0.06	90.69	90.95	90.76	90.95	0.000040	0.05	1.07	6.57	0.04
River 2	Reach 2	28	25YrSCS24Hr	0.08	90.69	91.03	90.77	91.03	0.000021	0.05	1.60	7.29	0.03
River 2	Reach 2	28	50YrSCS24Hr	0.10	90.69	91.12	90.78	91.12	0.000012	0.04	2.29	8.00	0.03
River 2	Reach 2	28	100YrSCS24Hr	0.12	90.69	91.18	90.78	91.18	0.000009	0.04	2.83	8.49	0.02
River 2	Reach 2	7	2YrCHI3Hr	0.02	90.67	90.74	90.71	90.74	0.002152	0.15	0.13	3.25	0.25
River 2	Reach 2	7	5YrCHI3Hr	0.02	90.67	90.73	90.71	90.74	0.003481	0.18	0.11	3.14	0.31
River 2	Reach 2	7	10YrCHI3Hr	0.04	90.67	90.85	90.72	90.85	0.000083	0.06	0.60	5.19	0.06
River 2	Reach 2	7	25YrCHI3Hr	0.05	90.67	90.92	90.73	90.92	0.000031	0.05	1.02	5.92	0.04
River 2	Reach 2	7	50YrCHI3Hr	0.07	90.67	91.01	90.73	91.01	0.000016	0.04	1.57	6.44	0.03
River 2	Reach 2	7	100YrCHI3Hr	0.08	90.67	91.08	90.74	91.08	0.000011	0.04	1.99	6.71	0.02
River 2	Reach 2	7	2YrSCS24Hr	0.10	90.67	91.14	90.75	91.14	0.000009	0.04	2.44	6.99	0.02
River 2	Reach 2	7	5YrSCS24Hr	0.03	90.67	90.82	90.72	90.82	0.000142	0.07	0.47	4.74	0.07
River 2	Reach 2	7	10YrSCS24Hr	0.06	90.67	90.95	90.73	90.95	0.000026	0.05	1.18	6.12	0.04
River 2	Reach 2	7	25YrSCS24Hr	0.08	90.67	91.03	90.74	91.03	0.000016	0.05	1.66	6.50	0.03
River 2	Reach 2	7	50YrSCS24Hr	0.10	90.67	91.12	90.74	91.12	0.000010	0.04	2.27	6.88	0.02
River 2	Reach 2	7	100YrSCS24Hr	0.12	90.67	91.18	90.75	91.18	0.000008	0.04	2.73	7.16	0.02
River 1	Reach 1-Upper	908	2YrCHI3Hr	0.02	94.14	94.22	94.18	94.22	0.001632	0.16	0.12	2.47	0.22
River 1	Reach 1-Upper	908	5YrCHI3Hr	0.02	94.14	94.22	94.18	94.22	0.001587	0.14	0.10	2.34	0.22
River 1	Reach 1-Upper	908	10YrCHI3Hr	0.03	94.14	94.23	94.19	94.23	0.001806	0.18	0.15	2.64	0.24
River 1	Reach 1-Upper	908	25YrCHI3Hr	0.03	94.14	94.24	94.20	94.24	0.002004	0.20	0.17	2.81	0.26
River 1	Reach 1-Upper	908	50YrCHI3Hr	0.05	94.14	94.25	94.20	94.26	0.002189	0.22	0.21	3.02	0.27
River 1	Reach 1-Upper	908	100YrCHI3Hr	0.06	94.14	94.26	94.21	94.27	0.002278	0.24	0.24	3.18	0.28
River 1	Reach 1-Upper	908	2YrSCS24Hr	0.07	94.14	94.27	94.21	94.27	0.002320	0.25	0.26	3.32	0.29
River 1	Reach 1-Upper	908	5YrSCS24Hr	0.02	94.14	94.23	94.19	94.23	0.001752	0.17	0.14	2.59	0.23
River 1	Reach 1-Upper	908	10YrSCS24Hr	0.04	94.14	94.25	94.20	94.25	0.002058	0.21	0.18	2.87	0.26
River 1	Reach 1-Upper	908	25YrSCS24Hr	0.05	94.14	94.26	94.20	94.26	0.002199	0.23	0.22	3.05	0.27
River 1	Reach 1-Upper	908	50YrSCS24Hr	0.06	94.14	94.27	94.21	94.27	0.002241	0.25	0.25	3.26	0.28
River 1	Reach 1-Upper	908	100YrSCS24Hr	0.07	94.14	94.28	94.22	94.28	0.002406	0.26	0.28	3.39	0.29
River 1	Reach 1-Upper	887	2YrCHI3Hr	0.02	94.10	94.16	94.14	94.16	0.007210	0.24	0.08	2.48	0.44
River 1	Reach 1-Upper	887	5YrCHI3Hr	0.02	94.10	94.15	94.14	94.16	0.007507	0.23	0.07	2.30	0.44
River 1	Reach 1-Upper	887	10YrCHI3Hr	0.03	94.10	94.17	94.15	94.17	0.005953	0.25	0.10	2.78	0.41
River 1	Reach 1-Upper	887	25YrCHI3Hr	0.03	94.10	94.18	94.15	94.18	0.005054	0.26	0.14	3.08	0.39
River 1	Reach 1-Upper	887	50YrCHI3Hr	0.05	94.10	94.19	94.16	94.20	0.004392	0.26	0.18	3.42	0.37
River 1	Reach 1-Upper	887	100YrCHI3Hr	0.06	94.10	94.20	94.17	94.20	0.004802	0.29	0.20	3.57	0.39
River 1	Reach 1-Upper	887	2YrSCS24Hr	0.07	94.10	94.21	94.17	94.21	0.004705	0.30	0.22	3.76	0.39
River 1	Reach 1-Upper	887	5YrSCS24Hr	0.02	94.10	94.17	94.15	94.17	0.006295	0.25	0.10	2.71	0.42
River 1	Reach 1-Upper	887	10YrSCS24Hr	0.04	94.10	94.18	94.15	94.19	0.004885	0.26	0.15	3.16	0.38
River 1	Reach 1-Upper	887	25YrSCS24Hr	0.05	94.10	94.19	94.16	94.20	0.004587	0.27	0.18	3.44	0.38
River 1	Reach 1-Upper	887	50YrSCS24Hr	0.06	94.10	94.20	94.17	94.20	0.005786	0.31	0.20	3.56	0.43
River 1	Reach 1-Upper	887	100YrSCS24Hr	0.07	94.10	94.21	94.17	94.22	0.003925	0.29	0.25	3.98	0.36
River 1	Reach 1-Upper	868	2YrCHI3Hr	0.02	93.96	94.03	94.01	94.03	0.006094	0.26	0.07	1.89	0.41
River 1	Reach 1-Upper	868	5YrCHI3Hr	0.02	93.96	94.02	94.01	94.03	0.006049	0.24	0.06	1.78	0.41
River 1	Reach 1-Upper	868	10YrCHI3Hr	0.03	93.96	94.04	94.01	94.04	0.007801	0.31	0.08	1.98	0.48
River 1	Reach 1-Upper	868	25YrCHI3Hr	0.03	93.96	94.04	94.02	94.05	0.010621	0.37	0.09	2.05	0.56
River 1	Reach 1-Upper	868	50YrCHI3Hr	0.05	93.96	94.05	94.03	94.06	0.013422	0.44	0.11	2.15	0.64
River 1	Reach 1-Upper	868	100YrCHI3Hr	0.06	93.96	94.06	94.04	94.07	0.010577	0.43	0.13	2.35	0.58
River 1	Reach 1-Upper	868	2YrSCS24Hr	0.07	93.96	94.06	94.04	94.07	0.010976	0.46	0.15	2.45	0.60
River 1	Reach 1-Upper	868	5YrSCS24Hr	0.02	93.96	94.03	94.01	94.04	0.007224	0.29	0.08	1.96	0.46
River 1	Reach 1-Upper	868	10YrSCS24Hr	0.04	93.96	94.04	94.02	94.05	0.011359	0.39	0.10	2.08	0.58
River 1	Reach 1-Upper	868	25YrSCS24Hr	0.05	93.96	94.05	94.03	94.06	0.012976	0.44	0.11	2.19	0.63
River 1	Reach 1-Upper	868	50YrSCS24Hr	0.06	93.96	94.07	94.04	94.08	0.007363	0.39	0.16	2.55	0.49
River 1	Reach 1-Upper	868	100YrSCS24Hr	0.07	93.96	94.06	94.05	94.07	0.019525	0.57	0.13	2.31	0.78
River 1	Reach 1-Upper	848	2YrCHI3Hr	0.02	93.87	93.92	93.90	93.93	0.004549	0.20	0.09	2.73	0.35
River 1	Reach 1-Upper	848	5YrCHI3Hr	0.02	93.87	93.92	93.90	93.92	0.004686	0.19	0.08	2.57	0.35
River 1	Reach 1-Upper	848	10YrCHI3Hr	0.03	93.87	93.93	93.91	93.94	0.003787	0.21	0.12	2.98	0.33
River 1	Reach 1-Upper	848	25YrCHI3Hr	0.03	93.87	93.95	93.92	93.95	0.002708	0.21	0.17	3.15	0.29
River 1	Reach 1-Upper	848	50YrCHI3Hr	0.05	93.87	93.97	93.92	93.97	0.002043	0.21	0.22	3.34	0.26
River 1	Reach 1-Upper	848	100YrCHI3Hr	0.06	93.87	93.97	93.93	93.97	0.002676	0.25	0.23	3.37	0.30
River 1	Reach 1-Upper	848	2YrSCS24Hr	0.07	93.87	93.98	93.93	93.98	0.002517	0.26	0.26	3.47	0.30
River 1	Reach 1-Upper	848	5YrSCS24Hr	0.02	93.87	93.93	93.91	93.93	0.004188	0.21	0.11	2.93	0.34
River 1	Reach 1-Upper	848	10YrSCS24Hr	0.04	93.87	93.95	93.92	93.96	0.002536	0.21	0.18	3.19	0.28
River 1	Reach 1-Upper	848	25YrSCS24Hr	0.05	93.87	93.97	93.92	93.97	0.002100	0.22	0.23	3.35	0.27
River 1	Reach 1-Upper	848	50YrSCS24Hr	0.06	93.87	93.96	93.93	93.97	0.004423	0.30	0.21	3.29	0.38

HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	848	100YrSCS24Hr	0.07	93.87	94.04	93.93	94.04	0.000430	0.15	0.50	3.98	0.13
River 1	Reach 1-Upper	828	2YrCHI3Hr	0.02	93.78	93.86	93.82	93.86	0.002644	0.17	0.11	2.77	0.27
River 1	Reach 1-Upper	828	5YrCHI3Hr	0.02	93.78	93.85	93.82	93.85	0.002687	0.16	0.09	2.47	0.27
River 1	Reach 1-Upper	828	10YrCHI3Hr	0.03	93.78	93.86	93.83	93.86	0.004045	0.22	0.12	2.90	0.34
River 1	Reach 1-Upper	828	25YrCHI3Hr	0.03	93.78	93.85	93.83	93.86	0.010289	0.33	0.10	2.68	0.54
River 1	Reach 1-Upper	828	50YrCHI3Hr	0.05	93.78	93.84	93.84	93.86	0.040257	0.61	0.08	2.23	1.04
River 1	Reach 1-Upper	828	100YrCHI3Hr	0.06	93.78	93.87	93.85	93.87	0.011893	0.40	0.14	3.16	0.59
River 1	Reach 1-Upper	828	2YrSCS24Hr	0.07	93.78	93.96	93.85	93.97	0.000365	0.13	0.50	4.07	0.12
River 1	Reach 1-Upper	828	5YrSCS24Hr	0.02	93.78	93.86	93.82	93.86	0.003210	0.19	0.12	2.95	0.30
River 1	Reach 1-Upper	828	10YrSCS24Hr	0.04	93.78	93.85	93.84	93.86	0.014294	0.39	0.10	2.58	0.63
River 1	Reach 1-Upper	828	25YrSCS24Hr	0.05	93.78	93.84	93.84	93.86	0.036015	0.59	0.08	2.34	0.99
River 1	Reach 1-Upper	828	50YrSCS24Hr	0.06	93.78	93.90	93.85	93.90	0.002459	0.25	0.25	3.50	0.29
River 1	Reach 1-Upper	828	100YrSCS24Hr	0.07	93.78	94.04	93.86	94.04	0.000005	0.02	5.50	35.21	0.01
River 1	Reach 1-Upper	807	2YrCHI3Hr	0.02	93.65	93.70	93.70	93.71	0.044163	0.52	0.04	1.46	1.04
River 1	Reach 1-Upper	807	5YrCHI3Hr	0.02	93.65	93.70	93.70	93.71	0.039865	0.46	0.03	1.40	0.97
River 1	Reach 1-Upper	807	10YrCHI3Hr	0.03	93.65	93.72	93.71	93.73	0.011679	0.35	0.07	1.90	0.57
River 1	Reach 1-Upper	807	25YrCHI3Hr	0.03	93.65	93.76	93.71	93.76	0.002625	0.22	0.16	2.63	0.29
River 1	Reach 1-Upper	807	50YrCHI3Hr	0.05	93.65	93.80	93.72	93.80	0.000718	0.16	0.30	3.53	0.16
River 1	Reach 1-Upper	807	100YrCHI3Hr	0.06	93.65	93.86	93.73	93.86	0.000227	0.12	0.51	4.43	0.10
River 1	Reach 1-Upper	807	2YrSCS24Hr	0.07	93.65	93.96	93.73	93.96	0.000003	0.02	5.71	34.82	0.01
River 1	Reach 1-Upper	807	5YrSCS24Hr	0.02	93.65	93.71	93.70	93.72	0.021814	0.43	0.06	1.70	0.76
River 1	Reach 1-Upper	807	10YrSCS24Hr	0.04	93.65	93.77	93.71	93.77	0.001862	0.20	0.19	2.86	0.25
River 1	Reach 1-Upper	807	25YrSCS24Hr	0.05	93.65	93.81	93.72	93.81	0.000588	0.15	0.33	3.67	0.15
River 1	Reach 1-Upper	807	50YrSCS24Hr	0.06	93.65	93.89	93.73	93.89	0.000119	0.10	0.70	6.11	0.07
River 1	Reach 1-Upper	807	100YrSCS24Hr	0.07	93.65	94.04	93.74	94.04	0.000001	0.01	8.37	35.13	0.01
River 1	Reach 1-Upper	789	2YrCHI3Hr	0.02	93.49	93.69	93.53	93.69	0.000037	0.05	0.38	3.33	0.04
River 1	Reach 1-Upper	789	5YrCHI3Hr	0.02	93.49	93.67	93.53	93.67	0.000035	0.04	0.33	3.14	0.04
River 1	Reach 1-Upper	789	10YrCHI3Hr	0.03	93.49	93.72	93.54	93.72	0.000038	0.06	0.45	3.66	0.04
River 1	Reach 1-Upper	789	25YrCHI3Hr	0.03	93.49	93.76	93.55	93.76	0.000039	0.07	0.54	4.24	0.04
River 1	Reach 1-Upper	789	50YrCHI3Hr	0.05	93.49	93.80	93.56	93.80	0.000037	0.07	0.65	4.99	0.04
River 1	Reach 1-Upper	789	100YrCHI3Hr	0.06	93.49	93.86	93.57	93.86	0.000030	0.07	0.78	5.73	0.04
River 1	Reach 1-Upper	789	2YrSCS24Hr	0.07	93.49	93.96	93.57	93.96	0.000016	0.06	1.04	8.28	0.03
River 1	Reach 1-Upper	789	5YrSCS24Hr	0.02	93.49	93.71	93.54	93.71	0.000038	0.06	0.43	3.55	0.04
River 1	Reach 1-Upper	789	10YrSCS24Hr	0.04	93.49	93.77	93.55	93.77	0.000038	0.07	0.56	4.42	0.04
River 1	Reach 1-Upper	789	25YrSCS24Hr	0.05	93.49	93.81	93.56	93.81	0.000037	0.07	0.67	5.12	0.04
River 1	Reach 1-Upper	789	50YrSCS24Hr	0.06	93.49	93.89	93.57	93.89	0.000025	0.07	0.87	6.17	0.04
River 1	Reach 1-Upper	789	100YrSCS24Hr	0.07	93.49	94.04	93.57	94.04	0.000011	0.06	1.22	10.07	0.03
River 1	Reach 1-Upper	764		Culvert									
River 1	Reach 1-Upper	759	2YrCHI3Hr	0.02	93.46	93.54	93.50	93.54	0.002883	0.23	0.08	1.83	0.30
River 1	Reach 1-Upper	759	5YrCHI3Hr	0.02	93.46	93.53	93.50	93.53	0.002563	0.21	0.07	1.74	0.28
River 1	Reach 1-Upper	759	10YrCHI3Hr	0.03	93.46	93.56	93.51	93.56	0.002115	0.23	0.11	2.11	0.27
River 1	Reach 1-Upper	759	25YrCHI3Hr	0.03	93.46	93.59	93.52	93.60	0.001088	0.21	0.16	2.56	0.21
River 1	Reach 1-Upper	759	50YrCHI3Hr	0.05	93.46	93.66	93.53	93.66	0.000396	0.18	0.26	3.40	0.14
River 1	Reach 1-Upper	759	100YrCHI3Hr	0.06	93.46	93.74	93.54	93.74	0.000161	0.15	0.39	4.37	0.09
River 1	Reach 1-Upper	759	2YrSCS24Hr	0.07	93.46	93.83	93.54	93.84	0.000081	0.13	0.53	6.02	0.07
River 1	Reach 1-Upper	759	5YrSCS24Hr	0.02	93.46	93.55	93.51	93.56	0.002355	0.23	0.10	2.03	0.28
River 1	Reach 1-Upper	759	10YrSCS24Hr	0.04	93.46	93.61	93.52	93.61	0.000864	0.21	0.18	2.73	0.19
River 1	Reach 1-Upper	759	25YrSCS24Hr	0.05	93.46	93.67	93.53	93.67	0.000343	0.17	0.28	3.54	0.13
River 1	Reach 1-Upper	759	50YrSCS24Hr	0.06	93.46	93.79	93.54	93.79	0.000109	0.14	0.46	4.99	0.08
River 1	Reach 1-Upper	759	100YrSCS24Hr	0.07	93.46	93.89	93.54	93.89	0.000058	0.12	0.61	6.73	0.06
River 1	Reach 1-Upper	743	2YrCHI3Hr	0.02	93.40	93.49	93.45	93.50	0.002754	0.25	0.08	1.55	0.30
River 1	Reach 1-Upper	743	5YrCHI3Hr	0.02	93.40	93.47	93.45	93.47	0.006174	0.30	0.05	1.27	0.43
River 1	Reach 1-Upper	743	10YrCHI3Hr	0.03	93.40	93.53	93.46	93.54	0.001159	0.20	0.13	1.95	0.21
River 1	Reach 1-Upper	743	25YrCHI3Hr	0.03	93.40	93.58	93.47	93.58	0.000560	0.19	0.19	2.40	0.16
River 1	Reach 1-Upper	743	50YrCHI3Hr	0.05	93.40	93.66	93.48	93.66	0.000255	0.16	0.29	3.39	0.11
River 1	Reach 1-Upper	743	100YrCHI3Hr	0.06	93.40	93.74	93.49	93.74	0.000125	0.14	0.40	5.00	0.08
River 1	Reach 1-Upper	743	2YrSCS24Hr	0.07	93.40	93.83	93.50	93.83	0.000071	0.13	0.52	7.13	0.07
River 1	Reach 1-Upper	743	5YrSCS24Hr	0.02	93.40	93.52	93.46	93.52	0.001463	0.21	0.11	1.84	0.23
River 1	Reach 1-Upper	743	10YrSCS24Hr	0.04	93.40	93.60	93.47	93.60	0.000466	0.18	0.21	2.59	0.14
River 1	Reach 1-Upper	743	25YrSCS24Hr	0.05	93.40	93.67	93.48	93.67	0.000228	0.16	0.30	3.72	0.11
River 1	Reach 1-Upper	743	50YrSCS24Hr	0.06	93.40	93.79	93.49	93.79	0.000091	0.14	0.46	6.17	0.07
River 1	Reach 1-Upper	743	100YrSCS24Hr	0.07	93.40	93.89	93.50	93.89	0.000054	0.12	0.59	7.75	0.06
River 1	Reach 1-Upper	733		Culvert									
River 1	Reach 1-Upper	728	2YrCHI3Hr	0.02	93.33	93.48	93.39	93.48	0.000387	0.13	0.15	1.68	0.12
River 1	Reach 1-Upper	728	5YrCHI3Hr	0.02	93.33	93.46	93.38	93.46	0.000507	0.12	0.12	1.51	0.14
River 1	Reach 1-Upper	728	10YrCHI3Hr	0.03	93.33	93.52	93.40	93.52	0.000283	0.13	0.20	1.94	0.11
River 1	Reach 1-Upper	728	25YrCHI3Hr	0.03	93.33	93.56	93.41	93.56	0.000213	0.13	0.26	2.26	0.10
River 1	Reach 1-Upper	728	50YrCHI3Hr	0.05	93.33	93.63	93.42	93.63	0.000137	0.13	0.36	2.78	0.08
River 1	Reach 1-Upper	728	100YrCHI3Hr	0.06	93.33	93.70	93.43	93.70	0.000088	0.13	0.45	3.31	0.07
River 1	Reach 1-Upper	728	2YrSCS24Hr	0.07	93.33	93.78	93.43	93.78	0.000060	0.12	0.56	4.21	0.06
River 1	Reach 1-Upper	728	5YrSCS24Hr	0.02	93.33	93.51	93.39	93.51	0.000306	0.13	0.19	1.87	0.11
River 1	Reach 1-Upper	728	10YrSCS24Hr	0.04	93.33	93.58	93.41	93.58	0.000196	0.14	0.28	2.37	0.10
River 1	Reach 1-Upper	728	25YrSCS24Hr	0.05	93.33	93.64	93.42	93.64	0.000129	0.13	0.37	2.86	0.08
River 1	Reach 1-Upper	728	50YrSCS24Hr	0.06	93.33	93.74	93.43	93.74	0.000071	0.12	0.51	3.65	0.06
River 1	Reach 1-Upper	728	100YrSCS24Hr	0.07	93.33	93.82	93.44	93.82	0.000049	0.12	0.63	6.17	0.06
River 1	Reach 1-Upper	715	2YrCHI3Hr	0.02	93.32	93.48	93.36	93.48	0.000151	0.10	0.20	2.44	0.08
River 1	Reach 1-Upper	715	5YrCHI3Hr	0.02	93.32	93.46	93.36	93.46	0.000165	0.09	0.17	2.22	0.08
River 1	Reach 1-Upper	715	10YrCHI3Hr	0.03	93.32	93.52	93.37	93.52	0.000134	0.10	0.25	2.80	0.08
River 1	Reach 1-Upper	715	25YrCHI3Hr	0.03	93.32	93.56	93.38	93.56	0.000117	0.11	0.31	3.23	0.08
River 1	Reach 1-Upper	715	50YrCHI3Hr	0.05	93.32	93.63	93.39	93.63	0.000096	0.12	0.41	3.92	0.07
River 1	Reach 1-Upper	715	100YrCHI3Hr	0.06	93.32	93.70	93.39	93.70	0.000061	0.11	0.51	4.63	0.06

HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	715	2YrSCS24Hr	0.07	93.32	93.77	93.40	93.78	0.000044	0.11	0.61	9.10	0.05
River 1	Reach 1-Upper	715	5YrSCS24Hr	0.02	93.32	93.51	93.36	93.51	0.000138	0.10	0.24	2.70	0.08
River 1	Reach 1-Upper	715	10YrSCS24Hr	0.04	93.32	93.57	93.38	93.57	0.000112	0.11	0.33	3.38	0.08
River 1	Reach 1-Upper	715	25YrSCS24Hr	0.05	93.32	93.64	93.39	93.64	0.000083	0.12	0.42	4.03	0.07
River 1	Reach 1-Upper	715	50YrSCS24Hr	0.06	93.32	93.74	93.40	93.74	0.000051	0.11	0.56	5.03	0.06
River 1	Reach 1-Upper	715	100YrSCS24Hr	0.07	93.32	93.82	93.40	93.82	0.000037	0.11	0.68	14.68	0.05
River 1	Reach 1-Upper	705	Culvert										
River 1	Reach 1-Upper	698	2YrCHI3Hr	0.02	93.24	93.31	93.29	93.32	0.010647	0.37	0.05	1.15	0.56
River 1	Reach 1-Upper	698	5YrCHI3Hr	0.02	93.24	93.31	93.29	93.31	0.009120	0.33	0.05	1.10	0.51
River 1	Reach 1-Upper	698	10YrCHI3Hr	0.03	93.24	93.31	93.30	93.32	0.019233	0.50	0.05	1.16	0.75
River 1	Reach 1-Upper	698	25YrCHI3Hr	0.03	93.24	93.31	93.31	93.33	0.027628	0.62	0.06	1.19	0.91
River 1	Reach 1-Upper	698	50YrCHI3Hr	0.05	93.24	93.42	93.32	93.43	0.000867	0.20	0.23	2.01	0.19
River 1	Reach 1-Upper	698	100YrCHI3Hr	0.06	93.24	93.51	93.33	93.51	0.000225	0.14	0.41	2.80	0.10
River 1	Reach 1-Upper	698	2YrSCS24Hr	0.07	93.24	93.51	93.34	93.51	0.000299	0.16	0.42	2.61	0.12
River 1	Reach 1-Upper	698	5YrSCS24Hr	0.02	93.24	93.31	93.30	93.32	0.015768	0.45	0.05	1.16	0.68
River 1	Reach 1-Upper	698	10YrSCS24Hr	0.04	93.24	93.32	93.31	93.34	0.027115	0.63	0.06	1.22	0.90
River 1	Reach 1-Upper	698	25YrSCS24Hr	0.05	93.24	93.47	93.32	93.47	0.000368	0.15	0.32	2.29	0.13
River 1	Reach 1-Upper	698	50YrSCS24Hr	0.06	93.24	93.51	93.33	93.51	0.000261	0.15	0.41	2.61	0.11
River 1	Reach 1-Upper	698	100YrSCS24Hr	0.07	93.24	93.51	93.34	93.52	0.000345	0.17	0.42	2.63	0.13
River 1	Reach 1-Upper	681	2YrCHI3Hr	0.02	93.14	93.22	93.19	93.22	0.003726	0.23	0.08	1.65	0.34
River 1	Reach 1-Upper	681	5YrCHI3Hr	0.02	93.14	93.21	93.18	93.21	0.004396	0.23	0.07	1.57	0.36
River 1	Reach 1-Upper	681	10YrCHI3Hr	0.03	93.14	93.24	93.19	93.24	0.001938	0.21	0.12	1.83	0.26
River 1	Reach 1-Upper	681	25YrCHI3Hr	0.03	93.14	93.27	93.20	93.27	0.001159	0.19	0.18	2.04	0.21
River 1	Reach 1-Upper	681	50YrCHI3Hr	0.05	93.14	93.42	93.21	93.42	0.000083	0.08	0.57	3.09	0.06
River 1	Reach 1-Upper	681	100YrCHI3Hr	0.06	93.14	93.51	93.22	93.51	0.000037	0.07	0.87	4.07	0.04
River 1	Reach 1-Upper	681	2YrSCS24Hr	0.07	93.14	93.51	93.22	93.51	0.000050	0.08	0.88	4.10	0.05
River 1	Reach 1-Upper	681	5YrSCS24Hr	0.02	93.14	93.23	93.19	93.24	0.002334	0.22	0.11	1.78	0.28
River 1	Reach 1-Upper	681	10YrSCS24Hr	0.04	93.14	93.29	93.20	93.29	0.000854	0.18	0.21	2.14	0.18
River 1	Reach 1-Upper	681	25YrSCS24Hr	0.05	93.14	93.46	93.21	93.46	0.000050	0.07	0.70	3.45	0.05
River 1	Reach 1-Upper	681	50YrSCS24Hr	0.06	93.14	93.51	93.22	93.51	0.000043	0.07	0.88	4.08	0.05
River 1	Reach 1-Upper	681	100YrSCS24Hr	0.07	93.14	93.51	93.23	93.51	0.000058	0.08	0.89	4.12	0.05
River 1	Reach 1-Upper	663	2YrCHI3Hr	0.02	93.05	93.19		93.19	0.000887	0.16	0.12	1.35	0.18
River 1	Reach 1-Upper	663	5YrCHI3Hr	0.02	93.05	93.18		93.18	0.000677	0.14	0.11	1.31	0.15
River 1	Reach 1-Upper	663	10YrCHI3Hr	0.03	93.05	93.22		93.23	0.000607	0.15	0.17	1.60	0.15
River 1	Reach 1-Upper	663	25YrCHI3Hr	0.03	93.05	93.26		93.26	0.000492	0.15	0.23	1.84	0.14
River 1	Reach 1-Upper	663	50YrCHI3Hr	0.05	93.05	93.42		93.42	0.000064	0.07	0.63	3.25	0.05
River 1	Reach 1-Upper	663	100YrCHI3Hr	0.06	93.05	93.51		93.51	0.000032	0.06	0.96	4.42	0.04
River 1	Reach 1-Upper	663	2YrSCS24Hr	0.07	93.05	93.51		93.51	0.000043	0.07	0.97	4.46	0.05
River 1	Reach 1-Upper	663	5YrSCS24Hr	0.02	93.05	93.21		93.22	0.000676	0.16	0.15	1.53	0.16
River 1	Reach 1-Upper	663	10YrSCS24Hr	0.04	93.05	93.28		93.28	0.000393	0.14	0.26	1.97	0.13
River 1	Reach 1-Upper	663	25YrSCS24Hr	0.05	93.05	93.46		93.46	0.000042	0.06	0.78	3.77	0.04
River 1	Reach 1-Upper	663	50YrSCS24Hr	0.06	93.05	93.51		93.51	0.000037	0.06	0.96	4.44	0.04
River 1	Reach 1-Upper	663	100YrSCS24Hr	0.07	93.05	93.51		93.51	0.000050	0.08	0.97	4.48	0.05
River 1	Reach 1-Upper	656	2YrCHI3Hr	0.06	93.03	93.15	93.12	93.16	0.007897	0.46	0.13	1.69	0.53
River 1	Reach 1-Upper	656	5YrCHI3Hr	0.06	93.03	93.15	93.12	93.16	0.008107	0.46	0.12	1.65	0.53
River 1	Reach 1-Upper	656	10YrCHI3Hr	0.10	93.03	93.19	93.14	93.20	0.006746	0.51	0.20	1.91	0.51
River 1	Reach 1-Upper	656	25YrCHI3Hr	0.14	93.03	93.23	93.16	93.24	0.004212	0.48	0.29	2.15	0.42
River 1	Reach 1-Upper	656	50YrCHI3Hr	0.18	93.03	93.42	93.18	93.42	0.000424	0.23	0.79	3.69	0.15
River 1	Reach 1-Upper	656	100YrCHI3Hr	0.22	93.03	93.51	93.20	93.51	0.000220	0.20	1.16	4.65	0.11
River 1	Reach 1-Upper	656	2YrSCS24Hr	0.26	93.03	93.51	93.21	93.51	0.000302	0.24	1.17	4.66	0.13
River 1	Reach 1-Upper	656	5YrSCS24Hr	0.09	93.03	93.18	93.14	93.19	0.007190	0.50	0.18	1.85	0.52
River 1	Reach 1-Upper	656	10YrSCS24Hr	0.15	93.03	93.26	93.17	93.27	0.003060	0.44	0.34	2.29	0.36
River 1	Reach 1-Upper	656	25YrSCS24Hr	0.19	93.03	93.46	93.18	93.46	0.000269	0.21	0.96	4.20	0.12
River 1	Reach 1-Upper	656	50YrSCS24Hr	0.24	93.03	93.51	93.20	93.51	0.000267	0.23	1.17	4.65	0.12
River 1	Reach 1-Upper	656	100YrSCS24Hr	0.28	93.03	93.51	93.22	93.51	0.000363	0.26	1.17	4.66	0.14
River 1	Reach 1-Upper	638	2YrCHI3Hr	0.06	92.92	93.08	93.01	93.08	0.002811	0.33	0.19	1.85	0.33
River 1	Reach 1-Upper	638	5YrCHI3Hr	0.06	92.92	93.07	93.00	93.08	0.002802	0.32	0.18	1.81	0.32
River 1	Reach 1-Upper	638	10YrCHI3Hr	0.10	92.92	93.14	93.04	93.14	0.001935	0.33	0.31	2.24	0.28
River 1	Reach 1-Upper	638	25YrCHI3Hr	0.14	92.92	93.20	93.05	93.21	0.001072	0.29	0.48	2.76	0.22
River 1	Reach 1-Upper	638	50YrCHI3Hr	0.18	92.92	93.41	93.07	93.42	0.000128	0.15	1.31	5.26	0.08
River 1	Reach 1-Upper	638	100YrCHI3Hr	0.22	92.92	93.50	93.09	93.51	0.000082	0.14	1.86	6.83	0.07
River 1	Reach 1-Upper	638	2YrSCS24Hr	0.26	92.92	93.50	93.10	93.51	0.000114	0.16	1.86	6.84	0.08
River 1	Reach 1-Upper	638	5YrSCS24Hr	0.09	92.92	93.12	93.03	93.12	0.002288	0.34	0.27	2.11	0.30
River 1	Reach 1-Upper	638	10YrSCS24Hr	0.15	92.92	93.24	93.06	93.24	0.000804	0.26	0.57	3.07	0.19
River 1	Reach 1-Upper	638	25YrSCS24Hr	0.19	92.92	93.46	93.08	93.46	0.000092	0.14	1.57	6.15	0.07
River 1	Reach 1-Upper	638	50YrSCS24Hr	0.24	92.92	93.50	93.10	93.51	0.000100	0.15	1.86	6.83	0.08
River 1	Reach 1-Upper	638	100YrSCS24Hr	0.28	92.92	93.50	93.11	93.51	0.000137	0.18	1.87	6.84	0.09
River 1	Reach 1-Upper	617	2YrCHI3Hr	0.06	92.84	93.02	92.95	93.02	0.002976	0.32	0.19	2.05	0.33
River 1	Reach 1-Upper	617	5YrCHI3Hr	0.06	92.84	93.01	92.95	93.01	0.003253	0.32	0.18	1.96	0.34
River 1	Reach 1-Upper	617	10YrCHI3Hr	0.10	92.84	93.11	92.98	93.11	0.000952	0.24	0.43	2.97	0.20
River 1	Reach 1-Upper	617	25YrCHI3Hr	0.14	92.84	93.19	93.00	93.19	0.000453	0.19	0.70	3.82	0.14
River 1	Reach 1-Upper	617	50YrCHI3Hr	0.18	92.84	93.41	93.01	93.41	0.000070	0.09	1.97	8.09	0.06
River 1	Reach 1-Upper	617	100YrCHI3Hr	0.22	92.84	93.50	93.03	93.50	0.000037	0.08	2.93	15.17	0.05
River 1	Reach 1-Upper	617	2YrSCS24Hr	0.26	92.84	93.50	93.04	93.50	0.000051	0.09	2.93	15.17	0.05
River 1	Reach 1-Upper	617	5YrSCS24Hr	0.09	92.84	93.08	92.97	93.09	0.001277	0.26	0.35	2.70	0.23
River 1	Reach 1-Upper	617	10YrSCS24Hr	0.15	92.84	93.23	93.00	93.23	0.000340	0.18	0.84	4.32	0.13
River 1	Reach 1-Upper	617	25YrSCS24Hr	0.19	92.84	93.46	93.02	93.46	0.000046	0.08	2.37	10.22	0.05
River 1	Reach 1-Upper	617	50YrSCS24Hr	0.24	92.84	93.50	93.04	93.50	0.000045	0.09	2.93	15.17	0.05
River 1	Reach 1-Upper	617	100YrSCS24Hr	0.28	92.84	93.50	93.05	93.50	0.000062	0.10	2.93	15.17	0.06
River 1	Reach 1-Upper	598	2YrCHI3Hr	0.06	92.76	93.00	92.86	93.00	0.000514	0.18	0.36	2.60	0.15
River 1	Reach 1-Upper	598	5YrCHI3Hr	0.06	92.76	92.99	92.86	92.99	0.000555	0.18	0.33	2.52	0.15
River 1	Reach 1-Upper	598	10YrCHI3Hr	0.11	92.76	93.10	92.89	93.10	0.000269	0.18	0.61	3.40	0.12

HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	598	25YrCHI3Hr	0.15	92.76	93.19	92.91	93.19	0.000175	0.18	0.82	5.45	0.10
River 1	Reach 1-Upper	598	50YrCHI3Hr	0.19	92.76	93.41	92.93	93.41	0.000054	0.14	1.39	9.84	0.06
River 1	Reach 1-Upper	598	100YrCHI3Hr	0.23	92.76	93.50	92.94	93.50	0.000020	0.08	4.94	31.21	0.04
River 1	Reach 1-Upper	598	2YrSCS24Hr	0.28	92.76	93.50	92.96	93.50	0.000028	0.09	4.93	31.21	0.04
River 1	Reach 1-Upper	598	5YrSCS24Hr	0.10	92.76	93.07	92.88	93.07	0.000322	0.18	0.53	3.17	0.12
River 1	Reach 1-Upper	598	10YrSCS24Hr	0.16	92.76	93.22	92.91	93.22	0.000147	0.17	0.91	6.16	0.09
River 1	Reach 1-Upper	598	25YrSCS24Hr	0.20	92.76	93.46	92.93	93.46	0.000045	0.13	1.50	22.56	0.06
River 1	Reach 1-Upper	598	50YrSCS24Hr	0.26	92.76	93.50	92.95	93.50	0.000025	0.09	4.94	31.21	0.04
River 1	Reach 1-Upper	598	100YrSCS24Hr	0.30	92.76	93.50	92.96	93.50	0.000034	0.10	4.93	31.21	0.05
River 1	Reach 1-Upper	589		Culvert									
River 1	Reach 1-Upper	581	2YrCHI3Hr	0.06	92.71	92.89	92.81	92.89	0.002034	0.27	0.24	2.66	0.28
River 1	Reach 1-Upper	581	5YrCHI3Hr	0.06	92.71	92.89	92.81	92.89	0.002032	0.27	0.23	2.59	0.28
River 1	Reach 1-Upper	581	10YrCHI3Hr	0.11	92.71	92.93	92.84	92.93	0.001970	0.33	0.33	3.40	0.29
River 1	Reach 1-Upper	581	25YrCHI3Hr	0.15	92.71	92.96	92.86	92.97	0.001571	0.34	0.42	4.10	0.27
River 1	Reach 1-Upper	581	50YrCHI3Hr	0.19	92.71	93.04	92.88	93.04	0.000858	0.32	0.60	5.44	0.21
River 1	Reach 1-Upper	581	100YrCHI3Hr	0.23	92.71	93.19	92.89	93.19	0.000244	0.24	0.98	9.64	0.12
River 1	Reach 1-Upper	581	2YrSCS24Hr	0.28	92.71	93.25	92.90	93.25	0.000213	0.24	1.13	30.32	0.12
River 1	Reach 1-Upper	581	5YrSCS24Hr	0.10	92.71	92.92	92.83	92.92	0.002062	0.32	0.30	3.18	0.29
River 1	Reach 1-Upper	581	10YrSCS24Hr	0.16	92.71	92.98	92.86	92.99	0.001381	0.34	0.46	4.41	0.25
River 1	Reach 1-Upper	581	25YrSCS24Hr	0.20	92.71	93.05	92.88	93.06	0.000735	0.31	0.65	5.75	0.20
River 1	Reach 1-Upper	581	50YrSCS24Hr	0.26	92.71	93.25	92.90	93.25	0.000187	0.23	1.13	30.32	0.11
River 1	Reach 1-Upper	581	100YrSCS24Hr	0.30	92.71	93.26	92.91	93.26	0.000245	0.26	1.15	30.62	0.12
River 1	Reach 1-Upper	572	2YrCHI3Hr	0.06	92.73	92.85	92.82	92.86	0.008674	0.45	0.14	2.02	0.54
River 1	Reach 1-Upper	572	5YrCHI3Hr	0.06	92.73	92.84	92.82	92.85	0.009130	0.45	0.13	1.96	0.55
River 1	Reach 1-Upper	572	10YrCHI3Hr	0.11	92.73	92.90	92.84	92.90	0.004896	0.43	0.26	2.58	0.43
River 1	Reach 1-Upper	572	25YrCHI3Hr	0.15	92.73	92.94	92.86	92.95	0.002649	0.37	0.39	3.10	0.33
River 1	Reach 1-Upper	572	50YrCHI3Hr	0.19	92.73	93.03	92.88	93.03	0.001021	0.28	0.70	4.09	0.22
River 1	Reach 1-Upper	572	100YrCHI3Hr	0.23	92.73	93.19	92.89	93.19	0.000155	0.14	2.22	26.73	0.09
River 1	Reach 1-Upper	572	2YrSCS24Hr	0.28	92.73	93.25	92.90	93.25	0.000074	0.11	4.09	35.89	0.06
River 1	Reach 1-Upper	572	5YrSCS24Hr	0.10	92.73	92.88	92.84	92.89	0.005898	0.44	0.22	2.42	0.47
River 1	Reach 1-Upper	572	10YrSCS24Hr	0.16	92.73	92.96	92.86	92.97	0.002084	0.34	0.46	3.34	0.30
River 1	Reach 1-Upper	572	25YrSCS24Hr	0.20	92.73	93.05	92.88	93.05	0.000824	0.26	0.78	4.31	0.20
River 1	Reach 1-Upper	572	50YrSCS24Hr	0.26	92.73	93.25	92.90	93.25	0.000065	0.10	4.09	35.88	0.06
River 1	Reach 1-Upper	572	100YrSCS24Hr	0.30	92.73	93.26	92.91	93.26	0.000079	0.12	4.37	36.88	0.07
River 1	Reach 1-Upper	555	2YrCHI3Hr	0.06	92.61	92.81	92.71	92.81	0.000982	0.20	0.32	2.99	0.20
River 1	Reach 1-Upper	555	5YrCHI3Hr	0.06	92.61	92.81	92.71	92.81	0.000983	0.20	0.31	2.93	0.20
River 1	Reach 1-Upper	555	10YrCHI3Hr	0.11	92.61	92.87	92.74	92.87	0.000748	0.21	0.52	3.73	0.18
River 1	Reach 1-Upper	555	25YrCHI3Hr	0.15	92.61	92.93	92.75	92.93	0.000479	0.19	0.76	4.46	0.15
River 1	Reach 1-Upper	555	50YrCHI3Hr	0.19	92.61	93.02	92.77	93.02	0.000238	0.16	1.22	5.62	0.11
River 1	Reach 1-Upper	555	100YrCHI3Hr	0.23	92.61	93.19	92.78	93.19	0.000031	0.08	4.98	37.27	0.04
River 1	Reach 1-Upper	555	2YrSCS24Hr	0.28	92.61	93.25	92.80	93.25	0.000018	0.06	7.39	40.94	0.03
River 1	Reach 1-Upper	555	5YrSCS24Hr	0.10	92.61	92.85	92.73	92.85	0.000851	0.21	0.45	3.50	0.19
River 1	Reach 1-Upper	555	10YrSCS24Hr	0.16	92.61	92.95	92.76	92.95	0.000402	0.18	0.87	4.75	0.14
River 1	Reach 1-Upper	555	25YrSCS24Hr	0.20	92.61	93.04	92.77	93.04	0.000197	0.15	1.34	5.96	0.10
River 1	Reach 1-Upper	555	50YrSCS24Hr	0.26	92.61	93.25	92.79	93.25	0.000016	0.06	7.39	40.94	0.03
River 1	Reach 1-Upper	555	100YrSCS24Hr	0.30	92.61	93.26	92.81	93.26	0.000020	0.07	7.70	41.13	0.03
River 1	Reach 1-Upper	534	2YrCHI3Hr	0.06	92.59	92.79	92.69	92.79	0.001542	0.25	0.26	2.47	0.24
River 1	Reach 1-Upper	534	5YrCHI3Hr	0.06	92.59	92.78	92.69	92.78	0.001540	0.24	0.25	2.41	0.24
River 1	Reach 1-Upper	534	10YrCHI3Hr	0.11	92.59	92.85	92.72	92.86	0.001007	0.24	0.46	3.30	0.21
River 1	Reach 1-Upper	534	25YrCHI3Hr	0.15	92.59	92.92	92.74	92.92	0.000570	0.21	0.74	8.51	0.16
River 1	Reach 1-Upper	534	50YrCHI3Hr	0.19	92.59	93.02	92.76	93.02	0.000095	0.11	3.36	40.28	0.07
River 1	Reach 1-Upper	534	100YrCHI3Hr	0.23	92.59	93.19	92.78	93.19	0.000006	0.04	11.46	51.16	0.02
River 1	Reach 1-Upper	534	2YrSCS24Hr	0.28	92.59	93.25	92.79	93.25	0.000004	0.03	14.61	51.39	0.02
River 1	Reach 1-Upper	534	5YrSCS24Hr	0.10	92.59	92.83	92.71	92.83	0.001214	0.25	0.39	3.03	0.22
River 1	Reach 1-Upper	534	10YrSCS24Hr	0.16	92.59	92.94	92.75	92.95	0.000422	0.19	1.07	17.97	0.14
River 1	Reach 1-Upper	534	25YrSCS24Hr	0.20	92.59	93.04	92.76	93.04	0.000064	0.09	4.23	42.61	0.06
River 1	Reach 1-Upper	534	50YrSCS24Hr	0.26	92.59	93.25	92.78	93.25	0.000003	0.03	14.61	51.39	0.01
River 1	Reach 1-Upper	534	100YrSCS24Hr	0.30	92.59	93.26	92.80	93.26	0.000004	0.03	14.99	51.42	0.02
River 1	Reach 1-Upper	510	2YrCHI3Hr	0.06	92.60	92.72	92.68	92.73	0.004446	0.41	0.16	2.77	0.41
River 1	Reach 1-Upper	510	5YrCHI3Hr	0.06	92.60	92.71	92.67	92.72	0.005825	0.43	0.14	2.60	0.46
River 1	Reach 1-Upper	510	10YrCHI3Hr	0.11	92.60	92.82	92.70	92.83	0.001169	0.34	0.32	4.18	0.24
River 1	Reach 1-Upper	510	25YrCHI3Hr	0.15	92.60	92.90	92.72	92.90	0.000712	0.32	0.45	5.29	0.20
River 1	Reach 1-Upper	510	50YrCHI3Hr	0.19	92.60	93.01	92.73	93.01	0.000421	0.31	0.62	14.09	0.16
River 1	Reach 1-Upper	510	100YrCHI3Hr	0.23	92.60	93.18	92.75	93.19	0.000190	0.26	0.90	109.29	0.11
River 1	Reach 1-Upper	510	2YrSCS24Hr	0.28	92.60	93.25	92.77	93.25	0.000000	0.01	42.37	109.53	0.00
River 1	Reach 1-Upper	510	5YrSCS24Hr	0.10	92.60	92.79	92.69	92.80	0.001503	0.34	0.28	3.79	0.26
River 1	Reach 1-Upper	510	10YrSCS24Hr	0.16	92.60	92.93	92.72	92.93	0.000617	0.32	0.49	5.78	0.19
River 1	Reach 1-Upper	510	25YrSCS24Hr	0.20	92.60	93.03	92.74	93.04	0.000378	0.31	0.66	15.54	0.15
River 1	Reach 1-Upper	510	50YrSCS24Hr	0.26	92.60	93.25	92.76	93.25	0.000000	0.01	42.37	109.53	0.00
River 1	Reach 1-Upper	510	100YrSCS24Hr	0.30	92.60	93.26	92.78	93.26	0.000000	0.01	43.19	109.55	0.01
River 1	Reach 1-Upper	505		Culvert									
River 1	Reach 1-Upper	502	2YrCHI3Hr	0.07	92.49	92.61	92.57	92.62	0.007737	0.51	0.14	2.26	0.54
River 1	Reach 1-Upper	502	5YrCHI3Hr	0.07	92.49	92.60	92.57	92.61	0.007956	0.50	0.13	2.20	0.54
River 1	Reach 1-Upper	502	10YrCHI3Hr	0.12	92.49	92.65	92.60	92.67	0.006462	0.60	0.20	2.74	0.52
River 1	Reach 1-Upper	502	25YrCHI3Hr	0.16	92.49	92.68	92.62	92.70	0.006042	0.66	0.25	3.06	0.52
River 1	Reach 1-Upper	502	50YrCHI3Hr	0.22	92.49	92.73	92.64	92.76	0.004047	0.66	0.33	4.01	0.45
River 1	Reach 1-Upper	502	100YrCHI3Hr	0.26	92.49	92.83	92.66	92.85	0.001665	0.54	0.48	5.45	0.31
River 1	Reach 1-Upper	502	2YrSCS24Hr	0.31	92.49	92.99	92.68	93.00	0.000619	0.43	0.72	104.79	0.20
River 1	Reach 1-Upper	502	5YrSCS24Hr	0.11	92.49	92.64	92.59	92.65	0.006729	0.58	0.19	2.62	0.53
River 1	Reach 1-Upper	502	10YrSCS24Hr	0.18	92.49	92.69	92.63	92.71	0.005546	0.67	0.27	3.21	0.51
River 1	Reach 1-Upper	502	25YrSCS24Hr	0.23	92.49	92.75	92.65	92.77	0.003381	0.64	0.36	4.41	0.42
River 1	Reach 1-Upper	502	50YrSCS24Hr	0.29	92.49	92.92	92.67	92.94	0.000902	0.47	0.62	7.34	0.24

HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	502	100YrSCS24Hr	0.34	92.49	93.11	92.69	93.12	0.000353	0.38	0.90	105.15	0.16
River 1	Reach 1-Upper	493	2YrCHI3Hr	0.07	92.34	92.61	92.42	92.61	0.000133	0.10	0.75	4.68	0.08
River 1	Reach 1-Upper	493	5YrCHI3Hr	0.07	92.34	92.60	92.42	92.60	0.000124	0.09	0.72	4.59	0.07
River 1	Reach 1-Upper	493	10YrCHI3Hr	0.12	92.34	92.65	92.45	92.65	0.000198	0.13	0.96	5.44	0.10
River 1	Reach 1-Upper	493	25YrCHI3Hr	0.16	92.34	92.68	92.46	92.68	0.000233	0.14	1.13	5.98	0.10
River 1	Reach 1-Upper	493	50YrCHI3Hr	0.22	92.34	92.74	92.48	92.74	0.000196	0.14	1.51	6.84	0.10
River 1	Reach 1-Upper	493	100YrCHI3Hr	0.26	92.34	92.84	92.49	92.84	0.000098	0.12	2.27	8.59	0.07
River 1	Reach 1-Upper	493	2YrSCS24Hr	0.31	92.34	93.00	92.50	93.00	0.000001	0.02	28.79	101.37	0.01
River 1	Reach 1-Upper	493	5YrSCS24Hr	0.11	92.34	92.64	92.44	92.64	0.000183	0.12	0.90	5.23	0.09
River 1	Reach 1-Upper	493	10YrSCS24Hr	0.18	92.34	92.70	92.46	92.70	0.000231	0.15	1.22	6.23	0.11
River 1	Reach 1-Upper	493	25YrSCS24Hr	0.23	92.34	92.76	92.48	92.76	0.000169	0.14	1.63	7.02	0.09
River 1	Reach 1-Upper	493	50YrSCS24Hr	0.29	92.34	92.93	92.50	92.93	0.000047	0.09	3.20	13.20	0.05
River 1	Reach 1-Upper	493	100YrSCS24Hr	0.34	92.34	93.12	92.51	93.12	0.000001	0.01	41.12	102.01	0.01
River 1	Reach 1-Upper	474	2YrCHI3Hr	0.07	92.41	92.60	92.50	92.60	0.000597	0.15	0.49	5.07	0.15
River 1	Reach 1-Upper	474	5YrCHI3Hr	0.07	92.41	92.60	92.50	92.60	0.000594	0.14	0.47	4.97	0.15
River 1	Reach 1-Upper	474	10YrCHI3Hr	0.12	92.41	92.64	92.53	92.65	0.000595	0.17	0.72	5.95	0.16
River 1	Reach 1-Upper	474	25YrCHI3Hr	0.16	92.41	92.67	92.54	92.68	0.000563	0.18	0.90	6.59	0.15
River 1	Reach 1-Upper	474	50YrCHI3Hr	0.22	92.41	92.73	92.56	92.74	0.000352	0.16	1.33	7.87	0.13
River 1	Reach 1-Upper	474	100YrCHI3Hr	0.26	92.41	92.84	92.57	92.84	0.000001	0.01	25.75	91.49	0.01
River 1	Reach 1-Upper	474	2YrSCS24Hr	0.31	92.41	93.00	92.58	93.00	0.000000	0.01	40.12	92.20	0.01
River 1	Reach 1-Upper	474	5YrSCS24Hr	0.11	92.41	92.63	92.52	92.63	0.000605	0.16	0.65	5.71	0.16
River 1	Reach 1-Upper	474	10YrSCS24Hr	0.18	92.41	92.69	92.55	92.69	0.000512	0.18	1.00	6.89	0.15
River 1	Reach 1-Upper	474	25YrSCS24Hr	0.23	92.41	92.75	92.56	92.75	0.000285	0.15	1.49	8.28	0.12
River 1	Reach 1-Upper	474	50YrSCS24Hr	0.29	92.41	92.93	92.57	92.93	0.000001	0.01	33.86	91.89	0.01
River 1	Reach 1-Upper	474	100YrSCS24Hr	0.34	92.41	93.12	92.58	93.12	0.000000	0.01	51.33	92.74	0.00
River 1	Reach 1-Upper	454	2YrCHI3Hr	0.07	92.44	92.58	92.51	92.59	0.001604	0.25	0.29	2.89	0.25
River 1	Reach 1-Upper	454	5YrCHI3Hr	0.07	92.44	92.58	92.50	92.58	0.001576	0.24	0.28	2.85	0.24
River 1	Reach 1-Upper	454	10YrCHI3Hr	0.12	92.44	92.62	92.53	92.63	0.001689	0.29	0.41	3.31	0.26
River 1	Reach 1-Upper	454	25YrCHI3Hr	0.16	92.44	92.65	92.55	92.66	0.001595	0.31	0.52	3.64	0.26
River 1	Reach 1-Upper	454	50YrCHI3Hr	0.22	92.44	92.72	92.56	92.72	0.000913	0.28	0.79	4.34	0.21
River 1	Reach 1-Upper	454	100YrCHI3Hr	0.26	92.44	92.84	92.57	92.84	0.000012	0.04	12.27	82.88	0.03
River 1	Reach 1-Upper	454	2YrSCS24Hr	0.31	92.44	93.00	92.59	93.00	0.000002	0.02	25.28	83.36	0.01
River 1	Reach 1-Upper	454	5YrSCS24Hr	0.11	92.44	92.61	92.52	92.62	0.001709	0.28	0.38	3.19	0.26
River 1	Reach 1-Upper	454	10YrSCS24Hr	0.18	92.44	92.67	92.55	92.67	0.001416	0.30	0.58	3.81	0.25
River 1	Reach 1-Upper	454	25YrSCS24Hr	0.23	92.44	92.74	92.56	92.74	0.000715	0.26	0.88	4.56	0.18
River 1	Reach 1-Upper	454	50YrSCS24Hr	0.29	92.44	92.93	92.58	92.93	0.000003	0.03	19.62	83.15	0.01
River 1	Reach 1-Upper	454	100YrSCS24Hr	0.34	92.44	93.12	92.60	93.12	0.000001	0.02	35.41	83.72	0.01
River 1	Reach 1-Upper	434	2YrCHI3Hr	0.07	92.42	92.54	92.49	92.54	0.003131	0.30	0.24	2.93	0.33
River 1	Reach 1-Upper	434	5YrCHI3Hr	0.07	92.42	92.53	92.49	92.54	0.003245	0.30	0.23	2.89	0.34
River 1	Reach 1-Upper	434	10YrCHI3Hr	0.12	92.42	92.58	92.51	92.59	0.002201	0.32	0.38	3.34	0.30
River 1	Reach 1-Upper	434	25YrCHI3Hr	0.16	92.42	92.62	92.52	92.62	0.001702	0.32	0.51	3.67	0.27
River 1	Reach 1-Upper	434	50YrCHI3Hr	0.22	92.42	92.72	92.54	92.72	0.000099	0.09	4.19	44.55	0.07
River 1	Reach 1-Upper	434	100YrCHI3Hr	0.26	92.42	92.84	92.55	92.84	0.000011	0.04	12.14	73.98	0.02
River 1	Reach 1-Upper	434	2YrSCS24Hr	0.31	92.42	93.00	92.56	93.00	0.000002	0.02	23.78	74.52	0.01
River 1	Reach 1-Upper	434	5YrSCS24Hr	0.11	92.42	92.57	92.50	92.57	0.002433	0.31	0.34	3.22	0.31
River 1	Reach 1-Upper	434	10YrSCS24Hr	0.18	92.42	92.64	92.53	92.64	0.001593	0.30	0.59	4.31	0.26
River 1	Reach 1-Upper	434	25YrSCS24Hr	0.23	92.42	92.74	92.54	92.74	0.000062	0.08	5.30	52.04	0.05
River 1	Reach 1-Upper	434	50YrSCS24Hr	0.29	92.42	92.93	92.55	92.93	0.000003	0.03	18.72	74.29	0.01
River 1	Reach 1-Upper	434	100YrSCS24Hr	0.34	92.42	93.12	92.57	93.12	0.000001	0.02	32.84	74.94	0.01
River 1	Reach 1-Upper	416	2YrCHI3Hr	0.07	92.34	92.52	92.42	92.52	0.000594	0.15	0.47	4.81	0.15
River 1	Reach 1-Upper	416	5YrCHI3Hr	0.07	92.34	92.51	92.42	92.51	0.000622	0.15	0.44	4.70	0.15
River 1	Reach 1-Upper	416	10YrCHI3Hr	0.12	92.34	92.57	92.45	92.57	0.000424	0.17	0.75	5.83	0.14
River 1	Reach 1-Upper	416	25YrCHI3Hr	0.16	92.34	92.62	92.46	92.62	0.000159	0.12	2.27	28.78	0.09
River 1	Reach 1-Upper	416	50YrCHI3Hr	0.22	92.34	92.72	92.48	92.72	0.000031	0.07	5.56	35.85	0.04
River 1	Reach 1-Upper	416	100YrCHI3Hr	0.26	92.34	92.84	92.48	92.84	0.000008	0.05	10.70	48.52	0.02
River 1	Reach 1-Upper	416	2YrSCS24Hr	0.31	92.34	93.00	92.49	93.00	0.000002	0.03	20.27	66.96	0.01
River 1	Reach 1-Upper	416	5YrSCS24Hr	0.11	92.34	92.56	92.44	92.56	0.000463	0.17	0.67	5.55	0.14
River 1	Reach 1-Upper	416	10YrSCS24Hr	0.18	92.34	92.64	92.47	92.64	0.000108	0.11	2.88	30.23	0.07
River 1	Reach 1-Upper	416	25YrSCS24Hr	0.23	92.34	92.74	92.48	92.74	0.000024	0.07	6.41	39.28	0.04
River 1	Reach 1-Upper	416	50YrSCS24Hr	0.29	92.34	92.93	92.49	92.93	0.000004	0.04	15.73	65.04	0.02
River 1	Reach 1-Upper	416	100YrSCS24Hr	0.34	92.34	93.12	92.50	93.12	0.000001	0.02	28.42	67.40	0.01
River 1	Reach 1-Upper	398	2YrCHI3Hr	0.07	92.28	92.50	92.40	92.51	0.000938	0.22	0.33	2.54	0.20
River 1	Reach 1-Upper	398	5YrCHI3Hr	0.07	92.28	92.50	92.40	92.50	0.000933	0.21	0.31	2.50	0.19
River 1	Reach 1-Upper	398	10YrCHI3Hr	0.12	92.28	92.56	92.42	92.56	0.000915	0.26	0.47	2.86	0.20
River 1	Reach 1-Upper	398	25YrCHI3Hr	0.16	92.28	92.61	92.44	92.61	0.000752	0.26	0.62	3.16	0.19
River 1	Reach 1-Upper	398	50YrCHI3Hr	0.22	92.28	92.71	92.46	92.72	0.000355	0.22	1.01	4.66	0.14
River 1	Reach 1-Upper	398	100YrCHI3Hr	0.26	92.28	92.84	92.47	92.84	0.000076	0.12	4.26	46.30	0.07
River 1	Reach 1-Upper	398	2YrSCS24Hr	0.31	92.28	93.00	92.49	93.00	0.000008	0.05	12.80	58.61	0.02
River 1	Reach 1-Upper	398	5YrSCS24Hr	0.11	92.28	92.54	92.42	92.55	0.000935	0.25	0.43	2.77	0.20
River 1	Reach 1-Upper	398	10YrSCS24Hr	0.18	92.28	92.63	92.44	92.63	0.000660	0.26	0.69	3.29	0.18
River 1	Reach 1-Upper	398	25YrSCS24Hr	0.23	92.28	92.74	92.46	92.74	0.000295	0.21	1.13	5.59	0.12
River 1	Reach 1-Upper	398	50YrSCS24Hr	0.29	92.28	92.93	92.48	92.93	0.000020	0.07	8.81	58.42	0.03
River 1	Reach 1-Upper	398	100YrSCS24Hr	0.34	92.28	93.12	92.50	93.12	0.000003	0.03	19.93	58.96	0.01
River 1	Reach 1-Upper	383	2YrCHI3Hr	0.07	92.34	92.47	92.42	92.48	0.004360	0.39	0.19	1.94	0.40
River 1	Reach 1-Upper	383	5YrCHI3Hr	0.07	92.34	92.47	92.42	92.47	0.004536	0.39	0.17	1.90	0.41
River 1	Reach 1-Upper	383	10YrCHI3Hr	0.12	92.34	92.53	92.45	92.54	0.002876	0.39	0.31	2.30	0.34
River 1	Reach 1-Upper	383	25YrCHI3Hr	0.16	92.34	92.59	92.47	92.59	0.001737	0.36	0.45	2.62	0.28
River 1	Reach 1-Upper	383	50YrCHI3Hr	0.22	92.34	92.70	92.49	92.71	0.000630	0.27	0.80	3.29	0.18
River 1	Reach 1-Upper	383	100YrCHI3Hr	0.26	92.34	92.83	92.50	92.84	0.000255	0.21	1.27	4.01	0.12
River 1	Reach 1-Upper	383	2YrSCS24Hr	0.31	92.34	92.99	92.52	93.00	0.000100	0.16	2.02	5.50	0.08
River 1	Reach 1-Upper	383	5YrSCS24Hr	0.11	92.34	92.51	92.44	92.52	0.003262	0.40	0.27	2.21	0.36
River 1	Reach 1-Upper	383	10YrSCS24Hr	0.18	92.34	92.61	92.47	92.62	0.001389	0.34	0.52	2.77	0.25
River 1	Reach 1-Upper	383	25YrSCS24Hr	0.23	92.34	92.73	92.49	92.73	0.000520	0.26	0.88	3.42	0.16

HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	383	50YrSCS24Hr	0.29	92.34	92.93	92.51	92.93	0.000147	0.18	1.66	4.73	0.09
River 1	Reach 1-Upper	383	100YrSCS24Hr	0.34	92.34	93.12	92.53	93.12	0.000005	0.04	15.00	51.87	0.02
River 1	Reach 1-Upper	364	2YrCHI3Hr	0.07	92.23	92.43	92.33	92.44	0.001347	0.27	0.27	2.04	0.23
River 1	Reach 1-Upper	364	5YrCHI3Hr	0.07	92.23	92.43	92.33	92.43	0.001355	0.26	0.26	2.01	0.23
River 1	Reach 1-Upper	364	10YrCHI3Hr	0.12	92.23	92.50	92.36	92.50	0.001099	0.29	0.42	2.37	0.22
River 1	Reach 1-Upper	364	25YrCHI3Hr	0.16	92.23	92.57	92.38	92.57	0.000740	0.27	0.59	2.71	0.19
River 1	Reach 1-Upper	364	50YrCHI3Hr	0.22	92.23	92.70	92.40	92.70	0.000331	0.22	0.98	3.34	0.13
River 1	Reach 1-Upper	364	100YrCHI3Hr	0.26	92.23	92.83	92.42	92.83	0.000166	0.18	1.48	4.20	0.10
River 1	Reach 1-Upper	364	2YrSCS24Hr	0.31	92.23	92.99	92.43	92.99	0.000050	0.12	4.53	43.93	0.06
River 1	Reach 1-Upper	364	5YrSCS24Hr	0.11	92.23	92.48	92.35	92.48	0.001197	0.29	0.37	2.27	0.23
River 1	Reach 1-Upper	364	10YrSCS24Hr	0.18	92.23	92.60	92.39	92.60	0.000621	0.26	0.67	2.85	0.17
River 1	Reach 1-Upper	364	25YrSCS24Hr	0.23	92.23	92.72	92.41	92.73	0.000283	0.21	1.07	3.47	0.12
River 1	Reach 1-Upper	364	50YrSCS24Hr	0.29	92.23	92.92	92.43	92.93	0.000099	0.15	1.93	5.59	0.08
River 1	Reach 1-Upper	364	100YrSCS24Hr	0.34	92.23	93.12	92.44	93.12	0.000012	0.07	9.97	44.25	0.03
River 1	Reach 1-Upper	347	2YrCHI3Hr	0.07	92.26	92.41	92.33	92.41	0.001311	0.25	0.29	2.48	0.23
River 1	Reach 1-Upper	347	5YrCHI3Hr	0.07	92.26	92.40	92.33	92.41	0.001382	0.24	0.27	2.45	0.23
River 1	Reach 1-Upper	347	10YrCHI3Hr	0.12	92.26	92.49	92.35	92.49	0.000808	0.25	0.49	2.80	0.19
River 1	Reach 1-Upper	347	25YrCHI3Hr	0.16	92.26	92.56	92.36	92.56	0.000498	0.23	0.71	3.12	0.15
River 1	Reach 1-Upper	347	50YrCHI3Hr	0.22	92.26	92.69	92.38	92.70	0.000213	0.19	1.16	3.69	0.11
River 1	Reach 1-Upper	347	100YrCHI3Hr	0.26	92.26	92.83	92.40	92.83	0.000107	0.15	1.71	4.28	0.08
River 1	Reach 1-Upper	347	2YrSCS24Hr	0.31	92.26	92.99	92.41	92.99	0.000050	0.13	2.54	7.35	0.06
River 1	Reach 1-Upper	347	5YrSCS24Hr	0.11	92.26	92.46	92.34	92.47	0.000932	0.25	0.43	2.71	0.20
River 1	Reach 1-Upper	347	10YrSCS24Hr	0.18	92.26	92.59	92.37	92.59	0.000403	0.22	0.80	3.25	0.14
River 1	Reach 1-Upper	347	25YrSCS24Hr	0.23	92.26	92.72	92.39	92.72	0.000183	0.18	1.26	3.81	0.10
River 1	Reach 1-Upper	347	50YrSCS24Hr	0.29	92.26	92.92	92.41	92.92	0.000071	0.14	2.13	5.02	0.07
River 1	Reach 1-Upper	347	100YrSCS24Hr	0.34	92.26	93.12	92.42	93.12	0.000020	0.09	6.30	37.59	0.04
River 1	Reach 1-Upper	328	2YrCHI3Hr	0.07	92.20	92.38	92.29	92.38	0.001752	0.30	0.24	1.87	0.27
River 1	Reach 1-Upper	328	5YrCHI3Hr	0.07	92.20	92.37	92.28	92.38	0.001873	0.30	0.22	1.82	0.27
River 1	Reach 1-Upper	328	10YrCHI3Hr	0.12	92.20	92.47	92.32	92.47	0.001020	0.29	0.42	2.24	0.21
River 1	Reach 1-Upper	328	25YrCHI3Hr	0.16	92.20	92.55	92.34	92.55	0.000618	0.26	0.61	2.58	0.17
River 1	Reach 1-Upper	328	50YrCHI3Hr	0.22	92.20	92.69	92.36	92.69	0.000277	0.21	1.02	3.16	0.12
River 1	Reach 1-Upper	328	100YrCHI3Hr	0.26	92.20	92.83	92.38	92.83	0.000152	0.17	1.51	4.11	0.09
River 1	Reach 1-Upper	328	2YrSCS24Hr	0.31	92.20	92.99	92.40	92.99	0.000074	0.14	2.26	5.12	0.07
River 1	Reach 1-Upper	328	5YrSCS24Hr	0.11	92.20	92.44	92.31	92.45	0.001182	0.29	0.36	2.14	0.23
River 1	Reach 1-Upper	328	10YrSCS24Hr	0.18	92.20	92.58	92.34	92.58	0.000513	0.25	0.70	2.71	0.16
River 1	Reach 1-Upper	328	25YrSCS24Hr	0.23	92.20	92.72	92.36	92.72	0.000240	0.21	1.11	3.28	0.11
River 1	Reach 1-Upper	328	50YrSCS24Hr	0.29	92.20	92.92	92.39	92.92	0.000098	0.15	1.92	4.61	0.07
River 1	Reach 1-Upper	328	100YrSCS24Hr	0.34	92.20	93.12	92.40	93.12	0.000035	0.11	4.57	29.52	0.05
River 1	Reach 1-Upper	306	2YrCHI3Hr	0.07	92.07	92.36	92.19	92.36	0.000723	0.26	0.28	1.53	0.18
River 1	Reach 1-Upper	306	5YrCHI3Hr	0.07	92.07	92.35	92.18	92.35	0.000722	0.25	0.27	1.49	0.18
River 1	Reach 1-Upper	306	10YrCHI3Hr	0.12	92.07	92.45	92.23	92.45	0.000699	0.30	0.40	1.84	0.18
River 1	Reach 1-Upper	306	25YrCHI3Hr	0.16	92.07	92.53	92.25	92.54	0.000559	0.31	0.52	2.13	0.17
River 1	Reach 1-Upper	306	50YrCHI3Hr	0.22	92.07	92.68	92.28	92.68	0.000321	0.29	0.74	2.69	0.13
River 1	Reach 1-Upper	306	100YrCHI3Hr	0.26	92.07	92.82	92.30	92.82	0.000203	0.28	0.95	3.29	0.11
River 1	Reach 1-Upper	306	2YrSCS24Hr	0.31	92.07	92.99	92.32	92.99	0.000131	0.26	1.20	4.54	0.09
River 1	Reach 1-Upper	306	5YrSCS24Hr	0.11	92.07	92.42	92.21	92.43	0.000712	0.29	0.37	1.75	0.18
River 1	Reach 1-Upper	306	10YrSCS24Hr	0.18	92.07	92.57	92.26	92.57	0.000497	0.31	0.58	2.25	0.16
River 1	Reach 1-Upper	306	25YrSCS24Hr	0.23	92.07	92.71	92.28	92.71	0.000290	0.29	0.79	2.81	0.13
River 1	Reach 1-Upper	306	50YrSCS24Hr	0.29	92.07	92.91	92.31	92.92	0.000156	0.27	1.10	3.90	0.10
River 1	Reach 1-Upper	306	100YrSCS24Hr	0.34	92.07	93.11	92.33	93.11	0.000098	0.25	1.39	20.53	0.08
River 1	Reach 1-Upper	300		Culvert									
River 1	Reach 1-Upper	294	2YrCHI3Hr	0.07	92.15	92.32	92.23	92.33	0.001574	0.32	0.23	2.11	0.26
River 1	Reach 1-Upper	294	5YrCHI3Hr	0.07	92.15	92.32	92.23	92.32	0.001567	0.31	0.22	2.08	0.26
River 1	Reach 1-Upper	294	10YrCHI3Hr	0.12	92.15	92.37	92.26	92.38	0.001840	0.41	0.29	2.34	0.30
River 1	Reach 1-Upper	294	25YrCHI3Hr	0.16	92.15	92.39	92.28	92.41	0.002165	0.49	0.33	2.48	0.33
River 1	Reach 1-Upper	294	50YrCHI3Hr	0.22	92.15	92.42	92.30	92.44	0.002528	0.57	0.38	2.64	0.36
River 1	Reach 1-Upper	294	100YrCHI3Hr	0.26	92.15	92.45	92.32	92.47	0.002769	0.63	0.41	2.76	0.38
River 1	Reach 1-Upper	294	2YrSCS24Hr	0.31	92.15	92.47	92.33	92.49	0.002956	0.69	0.45	2.87	0.40
River 1	Reach 1-Upper	294	5YrSCS24Hr	0.11	92.15	92.36	92.25	92.36	0.001762	0.39	0.28	2.28	0.29
River 1	Reach 1-Upper	294	10YrSCS24Hr	0.18	92.15	92.40	92.28	92.41	0.002296	0.51	0.35	2.52	0.34
River 1	Reach 1-Upper	294	25YrSCS24Hr	0.23	92.15	92.43	92.30	92.45	0.002610	0.59	0.39	2.66	0.37
River 1	Reach 1-Upper	294	50YrSCS24Hr	0.29	92.15	92.46	92.33	92.48	0.002895	0.67	0.43	2.82	0.40
River 1	Reach 1-Upper	294	100YrSCS24Hr	0.34	92.15	92.48	92.35	92.51	0.003128	0.73	0.47	2.94	0.42
River 1	Reach 1-Upper	279	2YrCHI3Hr	0.09	92.08	92.21	92.21	92.25	0.030968	0.83	0.10	1.54	1.01
River 1	Reach 1-Upper	279	5YrCHI3Hr	0.08	92.08	92.21	92.21	92.24	0.029991	0.80	0.10	1.51	0.99
River 1	Reach 1-Upper	279	10YrCHI3Hr	0.15	92.08	92.25	92.24	92.29	0.026320	0.91	0.16	1.84	0.98
River 1	Reach 1-Upper	279	25YrCHI3Hr	0.20	92.08	92.28		92.32	0.017826	0.87	0.23	2.04	0.83
River 1	Reach 1-Upper	279	50YrCHI3Hr	0.27	92.08	92.32		92.36	0.013314	0.86	0.31	2.27	0.74
River 1	Reach 1-Upper	279	100YrCHI3Hr	0.32	92.08	92.34		92.38	0.011695	0.87	0.37	2.42	0.71
River 1	Reach 1-Upper	279	2YrSCS24Hr	0.38	92.08	92.37		92.41	0.010643	0.88	0.43	2.57	0.69
River 1	Reach 1-Upper	279	5YrSCS24Hr	0.13	92.08	92.23	92.23	92.28	0.029039	0.90	0.14	1.75	1.01
River 1	Reach 1-Upper	279	10YrSCS24Hr	0.22	92.08	92.29		92.33	0.015917	0.86	0.25	2.10	0.80
River 1	Reach 1-Upper	279	25YrSCS24Hr	0.28	92.08	92.32		92.36	0.012955	0.86	0.32	2.30	0.74
River 1	Reach 1-Upper	279	50YrSCS24Hr	0.36	92.08	92.36		92.40	0.011055	0.88	0.41	2.51	0.70
River 1	Reach 1-Upper	279	100YrSCS24Hr	0.42	92.08	92.38		92.42	0.010063	0.89	0.47	2.66	0.67
River 1	Reach 1-Upper	277	2YrCHI3Hr	0.09	91.95	92.21		92.21	0.000715	0.22	0.40	2.73	0.18
River 1	Reach 1-Upper	277	5YrCHI3Hr	0.08	91.95	92.20		92.21	0.000695	0.21	0.39	2.70	0.17
River 1	Reach 1-Upper	277	10YrCHI3Hr	0.15	91.95	92.26		92.26	0.000856	0.28	0.54	3.02	0.20
River 1	Reach 1-Upper	277	25YrCHI3Hr	0.20	91.95	92.29		92.30	0.000927	0.32	0.64	3.19	0.21
River 1	Reach 1-Upper	277	50YrCHI3Hr	0.27	91.95	92.33		92.33	0.001006	0.37	0.76	3.41	0.23
River 1	Reach 1-Upper	277	100YrCHI3Hr	0.32	91.95	92.35		92.36	0.001068	0.41	0.85	3.55	0.24
River 1	Reach 1-Upper	277	2YrSCS24Hr	0.38	91.95	92.38		92.39	0.001131	0.44	0.95	3.69	0.25

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River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	277	5YrSCS24Hr	0.13	91.95	92.25		92.25	0.000826	0.26	0.50	2.94	0.20
River 1	Reach 1-Upper	277	10YrSCS24Hr	0.22	91.95	92.30		92.31	0.000941	0.33	0.68	3.25	0.22
River 1	Reach 1-Upper	277	25YrSCS24Hr	0.28	91.95	92.33		92.34	0.001018	0.38	0.78	3.43	0.23
River 1	Reach 1-Upper	277	50YrSCS24Hr	0.36	91.95	92.37		92.38	0.001104	0.43	0.91	3.63	0.25
River 1	Reach 1-Upper	277	100YrSCS24Hr	0.42	91.95	92.39		92.40	0.001159	0.46	1.00	3.77	0.26
River 1	Reach 1-Upper	270	2YrCHI3Hr	0.09	92.03	92.20		92.20	0.001702	0.28	0.31	2.65	0.26
River 1	Reach 1-Upper	270	5YrCHI3Hr	0.08	92.03	92.20		92.20	0.001692	0.27	0.29	2.60	0.26
River 1	Reach 1-Upper	270	10YrCHI3Hr	0.15	92.03	92.25		92.25	0.001753	0.33	0.45	3.07	0.27
River 1	Reach 1-Upper	270	25YrCHI3Hr	0.20	92.03	92.28		92.29	0.001743	0.36	0.55	3.36	0.28
River 1	Reach 1-Upper	270	50YrCHI3Hr	0.27	92.03	92.32		92.33	0.001732	0.40	0.68	3.72	0.29
River 1	Reach 1-Upper	270	100YrCHI3Hr	0.32	92.03	92.34		92.35	0.001721	0.42	0.78	4.13	0.29
River 1	Reach 1-Upper	270	2YrSCS24Hr	0.38	92.03	92.37		92.38	0.001663	0.45	0.90	5.00	0.29
River 1	Reach 1-Upper	270	5YrSCS24Hr	0.13	92.03	92.24		92.24	0.001760	0.32	0.40	2.95	0.27
River 1	Reach 1-Upper	270	10YrSCS24Hr	0.22	92.03	92.29		92.30	0.001717	0.37	0.58	3.47	0.28
River 1	Reach 1-Upper	270	25YrSCS24Hr	0.28	92.03	92.32		92.33	0.001734	0.40	0.70	3.76	0.29
River 1	Reach 1-Upper	270	50YrSCS24Hr	0.36	92.03	92.36		92.37	0.001687	0.44	0.84	4.62	0.29
River 1	Reach 1-Upper	270	100YrSCS24Hr	0.42	92.03	92.38		92.39	0.001617	0.46	0.97	5.51	0.29
River 1	Reach 1-Upper	261	2YrCHI3Hr	0.09	92.00	92.18	92.10	92.19	0.002251	0.33	0.26	2.11	0.30
River 1	Reach 1-Upper	261	5YrCHI3Hr	0.08	92.00	92.18	92.10	92.18	0.002216	0.32	0.25	2.09	0.30
River 1	Reach 1-Upper	261	10YrCHI3Hr	0.15	92.00	92.23	92.13	92.24	0.002543	0.41	0.36	2.34	0.33
River 1	Reach 1-Upper	261	25YrCHI3Hr	0.20	92.00	92.26	92.15	92.27	0.002719	0.46	0.43	2.48	0.35
River 1	Reach 1-Upper	261	50YrCHI3Hr	0.27	92.00	92.29	92.18	92.31	0.002882	0.51	0.52	2.66	0.37
River 1	Reach 1-Upper	261	100YrCHI3Hr	0.32	92.00	92.32	92.19	92.33	0.003012	0.55	0.59	2.78	0.38
River 1	Reach 1-Upper	261	2YrSCS24Hr	0.38	92.00	92.34	92.21	92.36	0.003124	0.58	0.66	2.90	0.39
River 1	Reach 1-Upper	261	5YrSCS24Hr	0.13	92.00	92.22	92.12	92.22	0.002466	0.39	0.33	2.27	0.32
River 1	Reach 1-Upper	261	10YrSCS24Hr	0.22	92.00	92.27	92.16	92.28	0.002719	0.47	0.46	2.53	0.35
River 1	Reach 1-Upper	261	25YrSCS24Hr	0.28	92.00	92.30	92.18	92.31	0.002908	0.52	0.54	2.68	0.37
River 1	Reach 1-Upper	261	50YrSCS24Hr	0.36	92.00	92.33	92.20	92.35	0.003077	0.57	0.63	2.84	0.38
River 1	Reach 1-Upper	261	100YrSCS24Hr	0.42	92.00	92.36	92.22	92.38	0.003155	0.60	0.70	2.97	0.39
River 1	Reach 1-Upper	239	2YrCHI3Hr	0.09	91.93	92.05	92.04	92.07	0.017641	0.69	0.12	1.58	0.78
River 1	Reach 1-Upper	239	5YrCHI3Hr	0.08	91.93	92.05	92.03	92.07	0.018146	0.68	0.12	1.54	0.79
River 1	Reach 1-Upper	239	10YrCHI3Hr	0.15	91.93	92.09	92.07	92.12	0.014163	0.75	0.20	1.88	0.73
River 1	Reach 1-Upper	239	25YrCHI3Hr	0.20	91.93	92.12	92.09	92.15	0.012598	0.78	0.25	2.06	0.71
River 1	Reach 1-Upper	239	50YrCHI3Hr	0.27	91.93	92.15	92.12	92.19	0.011181	0.82	0.33	2.23	0.69
River 1	Reach 1-Upper	239	100YrCHI3Hr	0.32	91.93	92.18	92.13	92.21	0.010479	0.85	0.38	2.36	0.68
River 1	Reach 1-Upper	239	2YrSCS24Hr	0.38	91.93	92.20	92.15	92.24	0.009912	0.88	0.44	2.49	0.67
River 1	Reach 1-Upper	239	5YrSCS24Hr	0.13	91.93	92.08	92.06	92.11	0.014943	0.73	0.18	1.79	0.75
River 1	Reach 1-Upper	239	10YrSCS24Hr	0.22	91.93	92.13	92.10	92.16	0.012137	0.79	0.27	2.10	0.70
River 1	Reach 1-Upper	239	25YrSCS24Hr	0.28	91.93	92.16	92.12	92.19	0.011036	0.83	0.34	2.26	0.68
River 1	Reach 1-Upper	239	50YrSCS24Hr	0.36	91.93	92.19	92.14	92.23	0.010147	0.86	0.41	2.43	0.67
River 1	Reach 1-Upper	239	100YrSCS24Hr	0.42	91.93	92.22	92.16	92.26	0.009585	0.89	0.47	2.56	0.66
River 1	Reach 1-Upper	218	2YrCHI3Hr	0.09	91.82	91.97	91.90	91.98	0.002011	0.30	0.29	2.50	0.28
River 1	Reach 1-Upper	218	5YrCHI3Hr	0.08	91.82	91.97	91.89	91.97	0.002000	0.29	0.27	2.48	0.28
River 1	Reach 1-Upper	218	10YrCHI3Hr	0.15	91.82	92.02	91.92	92.02	0.002151	0.37	0.40	2.72	0.30
River 1	Reach 1-Upper	218	25YrCHI3Hr	0.20	91.82	92.05	91.94	92.05	0.002198	0.40	0.49	2.86	0.31
River 1	Reach 1-Upper	218	50YrCHI3Hr	0.27	91.82	92.08	91.96	92.09	0.002327	0.45	0.59	3.03	0.33
River 1	Reach 1-Upper	218	100YrCHI3Hr	0.32	91.82	92.11	91.98	92.12	0.002390	0.49	0.67	3.15	0.34
River 1	Reach 1-Upper	218	2YrSCS24Hr	0.38	91.82	92.13	91.99	92.14	0.002438	0.52	0.75	3.27	0.34
River 1	Reach 1-Upper	218	5YrSCS24Hr	0.13	91.82	92.00	91.92	92.01	0.002117	0.35	0.37	2.66	0.30
River 1	Reach 1-Upper	218	10YrSCS24Hr	0.22	91.82	92.06	91.95	92.06	0.002238	0.42	0.51	2.91	0.32
River 1	Reach 1-Upper	218	25YrSCS24Hr	0.28	91.82	92.09	91.96	92.10	0.002340	0.46	0.60	3.05	0.33
River 1	Reach 1-Upper	218	50YrSCS24Hr	0.36	91.82	92.12	91.98	92.13	0.002418	0.50	0.71	3.22	0.34
River 1	Reach 1-Upper	218	100YrSCS24Hr	0.42	91.82	92.14	92.00	92.16	0.002473	0.53	0.79	3.36	0.35
River 1	Reach 1-Upper	197	2YrCHI3Hr	0.09	91.73	91.86	91.84	91.88	0.015766	0.67	0.13	1.59	0.75
River 1	Reach 1-Upper	197	5YrCHI3Hr	0.08	91.73	91.85	91.84	91.87	0.016181	0.66	0.12	1.55	0.75
River 1	Reach 1-Upper	197	10YrCHI3Hr	0.15	91.73	91.90	91.87	91.93	0.013293	0.73	0.20	1.87	0.72
River 1	Reach 1-Upper	197	25YrCHI3Hr	0.20	91.73	91.93	91.89	91.96	0.012335	0.78	0.25	2.02	0.71
River 1	Reach 1-Upper	197	50YrCHI3Hr	0.27	91.73	91.96	91.92	91.99	0.011527	0.84	0.32	2.18	0.70
River 1	Reach 1-Upper	197	100YrCHI3Hr	0.32	91.73	91.98	91.94	92.02	0.010809	0.87	0.37	2.29	0.69
River 1	Reach 1-Upper	197	2YrSCS24Hr	0.38	91.73	92.00	91.96	92.04	0.010540	0.91	0.42	2.39	0.69
River 1	Reach 1-Upper	197	5YrSCS24Hr	0.13	91.73	91.89	91.87	91.91	0.013973	0.71	0.18	1.81	0.72
River 1	Reach 1-Upper	197	10YrSCS24Hr	0.22	91.73	91.93	91.90	91.97	0.012083	0.80	0.27	2.06	0.70
River 1	Reach 1-Upper	197	25YrSCS24Hr	0.28	91.73	91.96	91.92	92.00	0.011418	0.84	0.33	2.20	0.70
River 1	Reach 1-Upper	197	50YrSCS24Hr	0.36	91.73	91.99	91.95	92.03	0.010650	0.89	0.40	2.34	0.69
River 1	Reach 1-Upper	197	100YrSCS24Hr	0.42	91.73	92.02	91.97	92.06	0.010409	0.93	0.45	2.44	0.69
River 1	Reach 1-Upper	174	2YrCHI3Hr	0.09	91.52	91.70	91.64	91.71	0.004240	0.42	0.20	1.84	0.40
River 1	Reach 1-Upper	174	5YrCHI3Hr	0.08	91.52	91.70	91.63	91.71	0.004212	0.41	0.19	1.80	0.40
River 1	Reach 1-Upper	174	10YrCHI3Hr	0.15	91.52	91.75	91.67	91.76	0.004464	0.50	0.30	2.17	0.43
River 1	Reach 1-Upper	174	25YrCHI3Hr	0.20	91.52	91.78	91.69	91.79	0.004633	0.55	0.36	2.31	0.45
River 1	Reach 1-Upper	174	50YrCHI3Hr	0.27	91.52	91.81	91.72	91.83	0.004788	0.61	0.44	2.47	0.46
River 1	Reach 1-Upper	174	100YrCHI3Hr	0.32	91.52	91.83	91.74	91.85	0.004947	0.65	0.50	2.58	0.48
River 1	Reach 1-Upper	174	2YrSCS24Hr	0.38	91.52	91.85	91.76	91.88	0.005078	0.69	0.56	2.69	0.49
River 1	Reach 1-Upper	174	5YrSCS24Hr	0.13	91.52	91.74	91.66	91.75	0.004366	0.47	0.27	2.08	0.42
River 1	Reach 1-Upper	174	10YrSCS24Hr	0.22	91.52	91.78	91.70	91.80	0.004685	0.57	0.38	2.35	0.45
River 1	Reach 1-Upper	174	25YrSCS24Hr	0.28	91.52	91.81	91.73	91.83	0.004821	0.62	0.45	2.49	0.46
River 1	Reach 1-Upper	174	50YrSCS24Hr	0.36	91.52	91.84	91.75	91.87	0.005024	0.67	0.53	2.65	0.48
River 1	Reach 1-Upper	174	100YrSCS24Hr	0.42	91.52	91.87	91.77	91.89	0.005140	0.71	0.59	2.76	0.49
River 1	Reach 1-Upper	154	2YrCHI3Hr	0.09	91.43	91.62	91.56	91.63	0.004316	0.40	0.22	2.21	0.40
River 1	Reach 1-Upper	154	5YrCHI3Hr	0.08	91.43	91.61	91.56	91.62	0.004328	0.39	0.21	2.16	0.40
River 1	Reach 1-Upper	154	10YrCHI3Hr	0.15	91.43	91.66	91.59	91.67	0.004181	0.46	0.32	2.60	0.41
River 1	Reach 1-Upper	154	25YrCHI3Hr	0.20	91.43	91.69	91.61	91.70	0.004190	0.49	0.40	2.83	0.42
River 1	Reach 1-Upper	154	50YrCHI3Hr	0.27	91.43	91.72	91.64	91.74	0.004087	0.53	0.50	3.11	0.42
River 1	Reach 1-Upper	154	100YrCHI3Hr	0.32	91.43	91.75	91.65	91.76	0.003985	0.56	0.58	3.28	0.43

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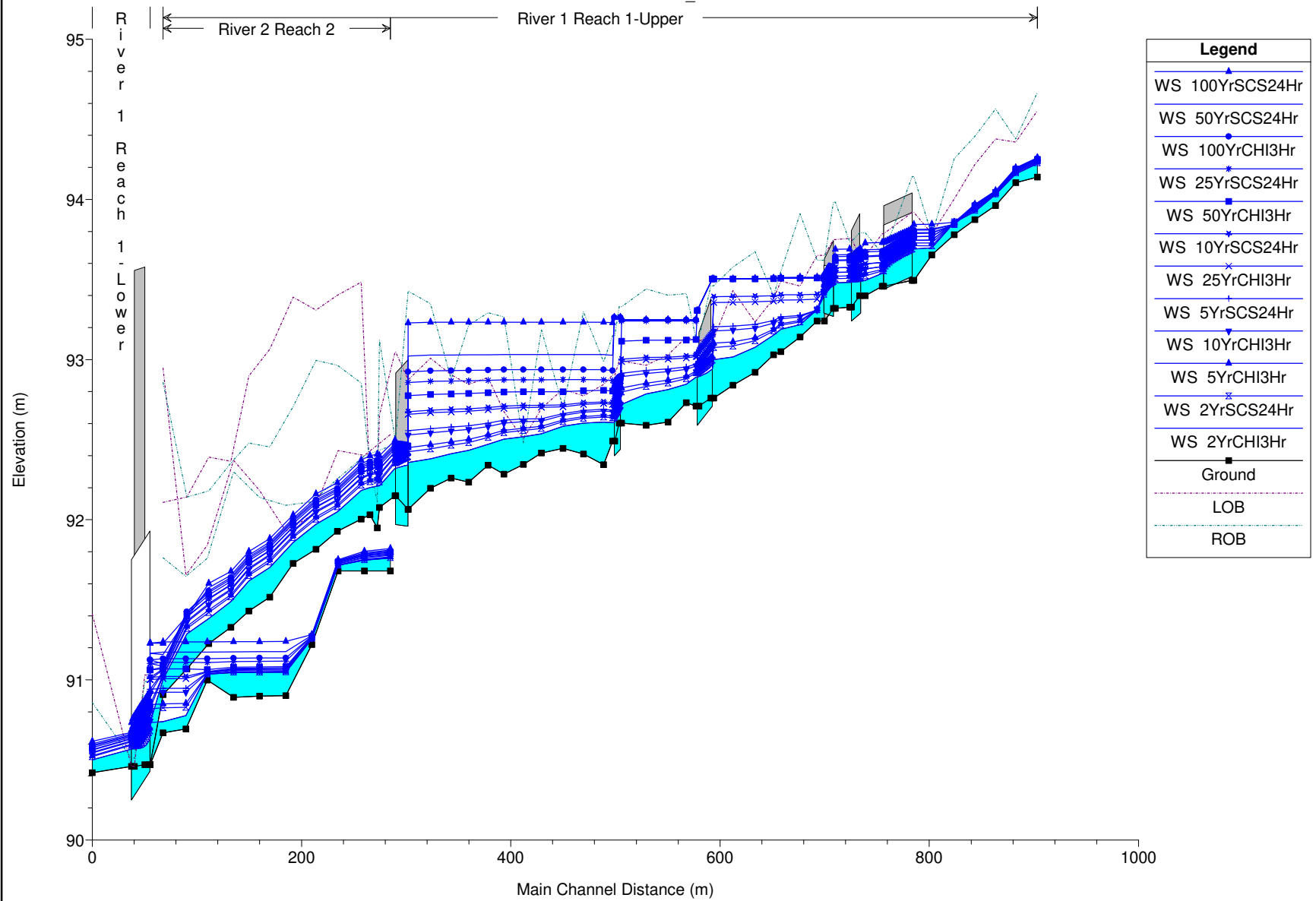
River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	154	2YrSCS24Hr	0.38	91.43	91.77	91.67	91.79	0.003883	0.58	0.66	3.44	0.43
River 1	Reach 1-Upper	154	5YrSCS24Hr	0.13	91.43	91.65	91.58	91.66	0.004251	0.44	0.29	2.49	0.41
River 1	Reach 1-Upper	154	10YrSCS24Hr	0.22	91.43	91.70	91.62	91.71	0.004167	0.51	0.43	2.91	0.42
River 1	Reach 1-Upper	154	25YrSCS24Hr	0.28	91.43	91.73	91.64	91.74	0.004071	0.54	0.51	3.14	0.43
River 1	Reach 1-Upper	154	50YrSCS24Hr	0.36	91.43	91.76	91.66	91.78	0.003925	0.57	0.62	3.37	0.43
River 1	Reach 1-Upper	154	100YrSCS24Hr	0.42	91.43	91.79	91.68	91.80	0.003830	0.60	0.71	3.53	0.43
River 1	Reach 1-Upper	137	2YrCHI3Hr	0.09	91.33	91.49	91.46	91.51	0.011391	0.63	0.14	1.43	0.65
River 1	Reach 1-Upper	137	5YrCHI3Hr	0.08	91.33	91.48	91.46	91.50	0.012189	0.63	0.13	1.39	0.66
River 1	Reach 1-Upper	137	10YrCHI3Hr	0.15	91.33	91.53	91.50	91.56	0.011338	0.73	0.20	1.65	0.67
River 1	Reach 1-Upper	137	25YrCHI3Hr	0.20	91.33	91.56	91.52	91.59	0.011017	0.79	0.25	1.80	0.67
River 1	Reach 1-Upper	137	50YrCHI3Hr	0.27	91.33	91.60	91.55	91.63	0.010550	0.84	0.32	1.99	0.67
River 1	Reach 1-Upper	137	100YrCHI3Hr	0.32	91.33	91.62	91.57	91.66	0.010206	0.88	0.37	2.12	0.67
River 1	Reach 1-Upper	137	2YrSCS24Hr	0.38	91.33	91.65	91.59	91.69	0.009818	0.90	0.42	2.25	0.66
River 1	Reach 1-Upper	137	5YrSCS24Hr	0.13	91.33	91.52	91.49	91.54	0.011464	0.71	0.18	1.58	0.67
River 1	Reach 1-Upper	137	10YrSCS24Hr	0.22	91.33	91.57	91.53	91.60	0.010898	0.80	0.27	1.85	0.67
River 1	Reach 1-Upper	137	25YrSCS24Hr	0.28	91.33	91.60	91.55	91.64	0.010487	0.85	0.33	2.01	0.67
River 1	Reach 1-Upper	137	50YrSCS24Hr	0.36	91.33	91.63	91.58	91.68	0.009938	0.89	0.40	2.20	0.67
River 1	Reach 1-Upper	137	100YrSCS24Hr	0.42	91.33	91.66	91.60	91.70	0.009566	0.92	0.46	2.33	0.66
River 1	Reach 1-Upper	116	2YrCHI3Hr	0.09	91.23	91.38	91.32	91.39	0.003211	0.37	0.23	2.08	0.35
River 1	Reach 1-Upper	116	5YrCHI3Hr	0.08	91.23	91.38	91.32	91.39	0.003082	0.36	0.22	2.06	0.35
River 1	Reach 1-Upper	116	10YrCHI3Hr	0.15	91.23	91.43	91.35	91.44	0.002930	0.42	0.35	2.36	0.35
River 1	Reach 1-Upper	116	25YrCHI3Hr	0.20	91.23	91.47	91.37	91.48	0.002864	0.46	0.43	2.55	0.36
River 1	Reach 1-Upper	116	50YrCHI3Hr	0.27	91.23	91.51	91.39	91.52	0.002818	0.50	0.54	2.77	0.36
River 1	Reach 1-Upper	116	100YrCHI3Hr	0.32	91.23	91.54	91.41	91.55	0.002807	0.52	0.62	2.92	0.36
River 1	Reach 1-Upper	116	2YrSCS24Hr	0.38	91.23	91.56	91.42	91.58	0.002806	0.55	0.70	3.06	0.37
River 1	Reach 1-Upper	116	5YrSCS24Hr	0.13	91.23	91.42	91.34	91.43	0.002964	0.41	0.31	2.29	0.35
River 1	Reach 1-Upper	116	10YrSCS24Hr	0.22	91.23	91.48	91.37	91.49	0.002843	0.47	0.46	2.61	0.36
River 1	Reach 1-Upper	116	25YrSCS24Hr	0.28	91.23	91.51	91.39	91.53	0.002817	0.50	0.55	2.79	0.36
River 1	Reach 1-Upper	116	50YrSCS24Hr	0.36	91.23	91.55	91.42	91.57	0.002792	0.54	0.66	3.00	0.37
River 1	Reach 1-Upper	116	100YrSCS24Hr	0.42	91.23	91.58	91.43	91.60	0.002587	0.55	0.76	3.16	0.36
River 1	Reach 1-Upper	95	2YrCHI3Hr	0.09	91.07	91.29	91.23	91.30	0.006154	0.52	0.16	1.38	0.48
River 1	Reach 1-Upper	95	5YrCHI3Hr	0.08	91.07	91.28	91.23	91.29	0.006001	0.51	0.16	1.35	0.48
River 1	Reach 1-Upper	95	10YrCHI3Hr	0.15	91.07	91.33	91.27	91.35	0.006981	0.63	0.23	1.60	0.53
River 1	Reach 1-Upper	95	25YrCHI3Hr	0.20	91.07	91.36	91.30	91.39	0.007514	0.71	0.28	1.73	0.56
River 1	Reach 1-Upper	95	50YrCHI3Hr	0.27	91.07	91.39	91.33	91.43	0.008051	0.78	0.34	1.89	0.59
River 1	Reach 1-Upper	95	100YrCHI3Hr	0.32	91.07	91.42	91.35	91.45	0.008531	0.84	0.38	1.99	0.61
River 1	Reach 1-Upper	95	2YrSCS24Hr	0.38	91.07	91.42	91.37	91.47	0.012265	1.01	0.38	1.98	0.74
River 1	Reach 1-Upper	95	5YrSCS24Hr	0.13	91.07	91.32	91.26	91.34	0.006833	0.61	0.21	1.53	0.52
River 1	Reach 1-Upper	95	10YrSCS24Hr	0.22	91.07	91.37	91.30	91.40	0.007484	0.72	0.30	1.78	0.56
River 1	Reach 1-Upper	95	25YrSCS24Hr	0.28	91.07	91.40	91.33	91.43	0.008260	0.80	0.35	1.90	0.60
River 1	Reach 1-Upper	95	50YrSCS24Hr	0.36	91.07	91.43	91.36	91.47	0.008800	0.87	0.41	2.08	0.63
River 1	Reach 1-Upper	95	100YrSCS24Hr	0.42	91.07	91.38	91.38	91.47	0.023623	1.32	0.32	1.84	1.01
River 1	Reach 1-Upper	72	2YrCHI3Hr	0.09	90.91	91.00	91.00	91.03	0.030446	0.75	0.12	1.98	0.99
River 1	Reach 1-Upper	72	5YrCHI3Hr	0.08	90.91	91.00	91.00	91.03	0.030836	0.74	0.11	1.93	0.99
River 1	Reach 1-Upper	72	10YrCHI3Hr	0.15	90.91	91.03	91.03	91.07	0.028202	0.84	0.18	2.40	0.99
River 1	Reach 1-Upper	72	25YrCHI3Hr	0.20	90.91	91.05	91.05	91.09	0.027394	0.90	0.22	2.63	0.99
River 1	Reach 1-Upper	72	50YrCHI3Hr	0.27	90.91	91.07	91.07	91.12	0.026901	0.98	0.27	2.82	1.01
River 1	Reach 1-Upper	72	100YrCHI3Hr	0.32	90.91	91.08	91.08	91.14	0.025605	1.02	0.32	2.96	1.00
River 1	Reach 1-Upper	72	2YrSCS24Hr	0.38	90.91	91.12	91.10	91.16	0.014685	0.89	0.43	3.28	0.78
River 1	Reach 1-Upper	72	5YrSCS24Hr	0.13	90.91	91.02	91.02	91.06	0.027869	0.80	0.16	2.30	0.97
River 1	Reach 1-Upper	72	10YrSCS24Hr	0.22	90.91	91.05	91.05	91.10	0.028793	0.94	0.23	2.67	1.02
River 1	Reach 1-Upper	72	25YrSCS24Hr	0.28	90.91	91.07	91.07	91.12	0.025957	0.98	0.28	2.86	0.99
River 1	Reach 1-Upper	72	50YrSCS24Hr	0.36	90.91	91.09	91.09	91.15	0.025859	1.06	0.34	3.02	1.01
River 1	Reach 1-Upper	72	100YrSCS24Hr	0.42	90.91	91.17	91.11	91.19	0.006547	0.69	0.61	3.71	0.54
River 1	Reach 1-Lower	56	2YrCHI3Hr	0.15	90.47	90.73	90.57	90.74	0.000357	0.19	0.75	10.20	0.13
River 1	Reach 1-Lower	56	5YrCHI3Hr	0.14	90.47	90.73	90.57	90.73	0.000365	0.19	0.73	10.09	0.13
River 1	Reach 1-Lower	56	10YrCHI3Hr	0.27	90.47	90.84	90.60	90.85	0.000296	0.23	1.14	14.31	0.13
River 1	Reach 1-Lower	56	25YrCHI3Hr	0.36	90.47	90.92	90.62	90.92	0.000280	0.26	1.40	17.01	0.13
River 1	Reach 1-Lower	56	50YrCHI3Hr	0.50	90.47	91.01	90.64	91.01	0.000269	0.29	1.71	19.79	0.13
River 1	Reach 1-Lower	56	100YrCHI3Hr	0.60	90.47	91.07	90.66	91.08	0.000266	0.31	1.93	20.02	0.13
River 1	Reach 1-Lower	56	2YrSCS24Hr	0.72	90.47	91.14	90.68	91.14	0.000263	0.34	2.16	20.02	0.14
River 1	Reach 1-Lower	56	5YrSCS24Hr	0.23	90.47	90.82	90.59	90.82	0.000305	0.22	1.05	13.10	0.13
River 1	Reach 1-Lower	56	10YrSCS24Hr	0.40	90.47	90.95	90.63	90.95	0.000276	0.27	1.50	18.26	0.13
River 1	Reach 1-Lower	56	25YrSCS24Hr	0.52	90.47	91.02	90.65	91.03	0.000268	0.30	1.76	19.94	0.13
River 1	Reach 1-Lower	56	50YrSCS24Hr	0.68	90.47	91.11	90.68	91.12	0.000265	0.33	2.08	20.02	0.14
River 1	Reach 1-Lower	56	100YrSCS24Hr	0.81	90.47	91.18	90.69	91.18	0.000263	0.35	2.30	20.02	0.14
River 1	Reach 1-Lower	50		Culvert									
River 1	Reach 1-Lower	38	2YrCHI3Hr	0.15	90.46	90.57	90.53	90.58	0.005051	0.43	0.34	30.28	0.44
River 1	Reach 1-Lower	38	5YrCHI3Hr	0.14	90.46	90.57	90.53	90.58	0.004988	0.42	0.33	29.98	0.44
River 1	Reach 1-Lower	38	10YrCHI3Hr	0.27	90.46	90.60	90.56	90.62	0.007033	0.60	0.44	34.43	0.54
River 1	Reach 1-Lower	38	25YrCHI3Hr	0.36	90.46	90.61	90.57	90.64	0.008644	0.73	0.50	35.72	0.61
River 1	Reach 1-Lower	38	50YrCHI3Hr	0.50	90.46	90.63	90.60	90.67	0.010740	0.88	0.57	36.55	0.70
River 1	Reach 1-Lower	38	100YrCHI3Hr	0.60	90.46	90.65	90.62	90.70	0.012455	0.99	0.61	36.99	0.76
River 1	Reach 1-Lower	38	2YrSCS24Hr	0.72	90.46	90.66	90.64	90.72	0.014168	1.11	0.65	37.76	0.82
River 1	Reach 1-Lower	38	5YrSCS24Hr	0.23	90.46	90.59	90.55	90.61	0.006416	0.56	0.42	33.57	0.51
River 1	Reach 1-Lower	38	10YrSCS24Hr	0.40	90.46	90.62	90.58	90.65	0.009262	0.77	0.52	36.29	0.64
River 1	Reach 1-Lower	38	25YrSCS24Hr	0.52	90.46	90.64	90.60	90.68	0.011117	0.90	0.58	36.61	0.71
River 1	Reach 1-Lower	38	50YrSCS24Hr	0.68	90.46	90.65	90.63	90.71	0.013424	1.06	0.64	37.48	0.80
River 1	Reach 1-Lower	38	100YrSCS24Hr	0.81	90.46	90.66	90.64	90.74	0.015528	1.19	0.68	38.08	0.86
River 1	Reach 1-Lower	0	2YrCHI3Hr	0.15	90.42	90.50	90.46	90.50	0.001001	0.13	1.08	18.88	0.18
River 1	Reach 1-Lower	0	5YrCHI3Hr	0.14	90.42	90.50	90.46	90.50	0.001001	0.13	1.06	18.74	0.18
River 1	Reach 1-Lower	0	10YrCHI3Hr	0.27	90.42	90.53	90.47	90.53	0.001000	0.17	1.59	20.05	0.19

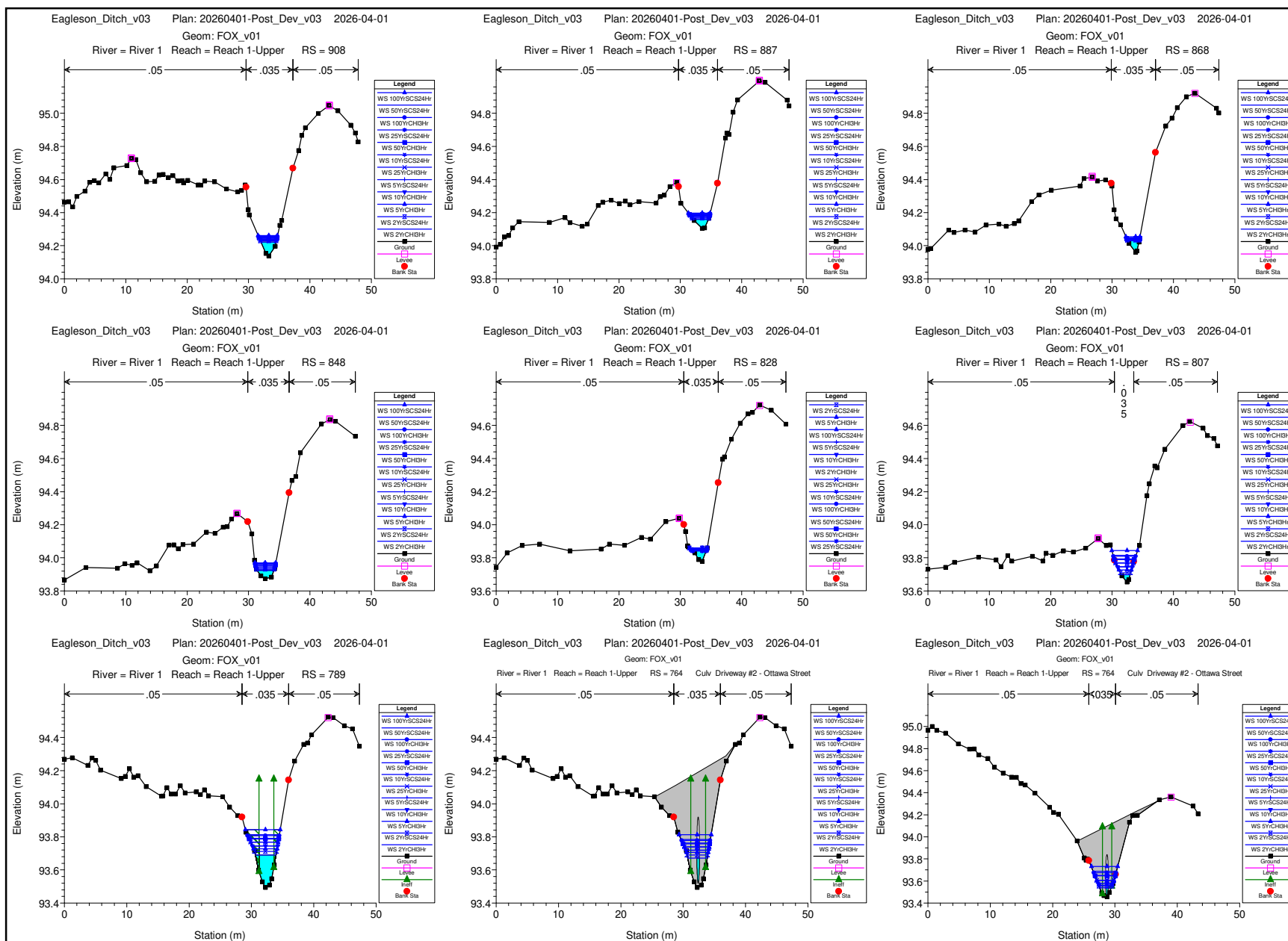
HEC-RAS Plan: 20260401-Pre_Dev_v03 (Continued)

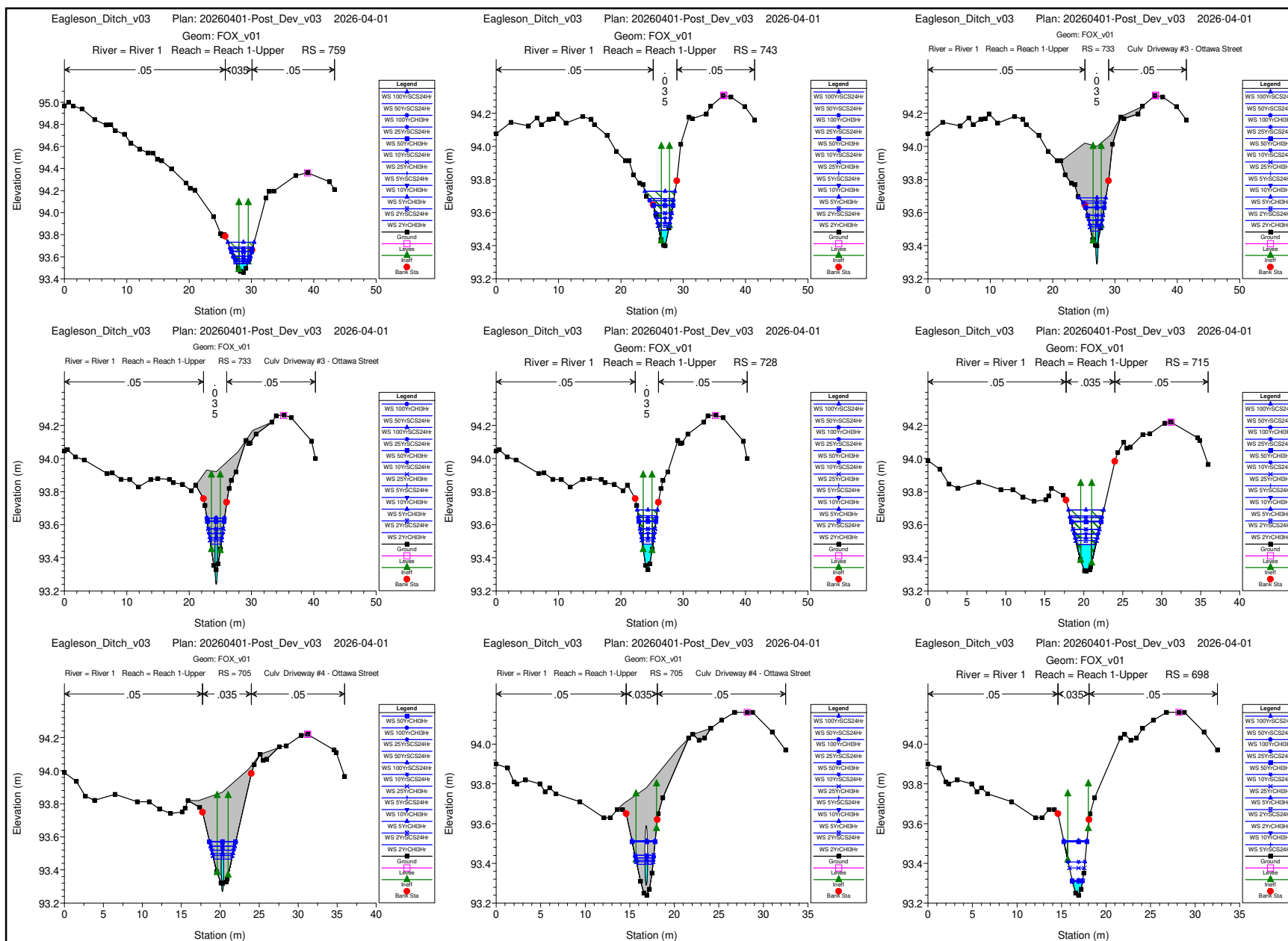
River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Lower	0	25YrCHI3Hr	0.36	90.42	90.54	90.48	90.55	0.001000	0.19	1.93	20.29	0.19
River 1	Reach 1-Lower	0	50YrCHI3Hr	0.50	90.42	90.56	90.49	90.57	0.001001	0.21	2.34	20.59	0.20
River 1	Reach 1-Lower	0	100YrCHI3Hr	0.60	90.42	90.58	90.49	90.58	0.001000	0.23	2.65	20.80	0.20
River 1	Reach 1-Lower	0	2YrSCS24Hr	0.72	90.42	90.59	90.50	90.60	0.001000	0.24	2.99	21.46	0.21
River 1	Reach 1-Lower	0	5YrSCS24Hr	0.23	90.42	90.52	90.46	90.52	0.001000	0.16	1.47	19.96	0.19
River 1	Reach 1-Lower	0	10YrSCS24Hr	0.40	90.42	90.55	90.48	90.55	0.001001	0.20	2.05	20.38	0.20
River 1	Reach 1-Lower	0	25YrSCS24Hr	0.52	90.42	90.57	90.48	90.57	0.001001	0.22	2.41	20.64	0.20
River 1	Reach 1-Lower	0	50YrSCS24Hr	0.68	90.42	90.59	90.49	90.59	0.001001	0.24	2.87	21.34	0.21
River 1	Reach 1-Lower	0	100YrSCS24Hr	0.81	90.42	90.60	90.50	90.61	0.001001	0.25	3.19	21.58	0.21

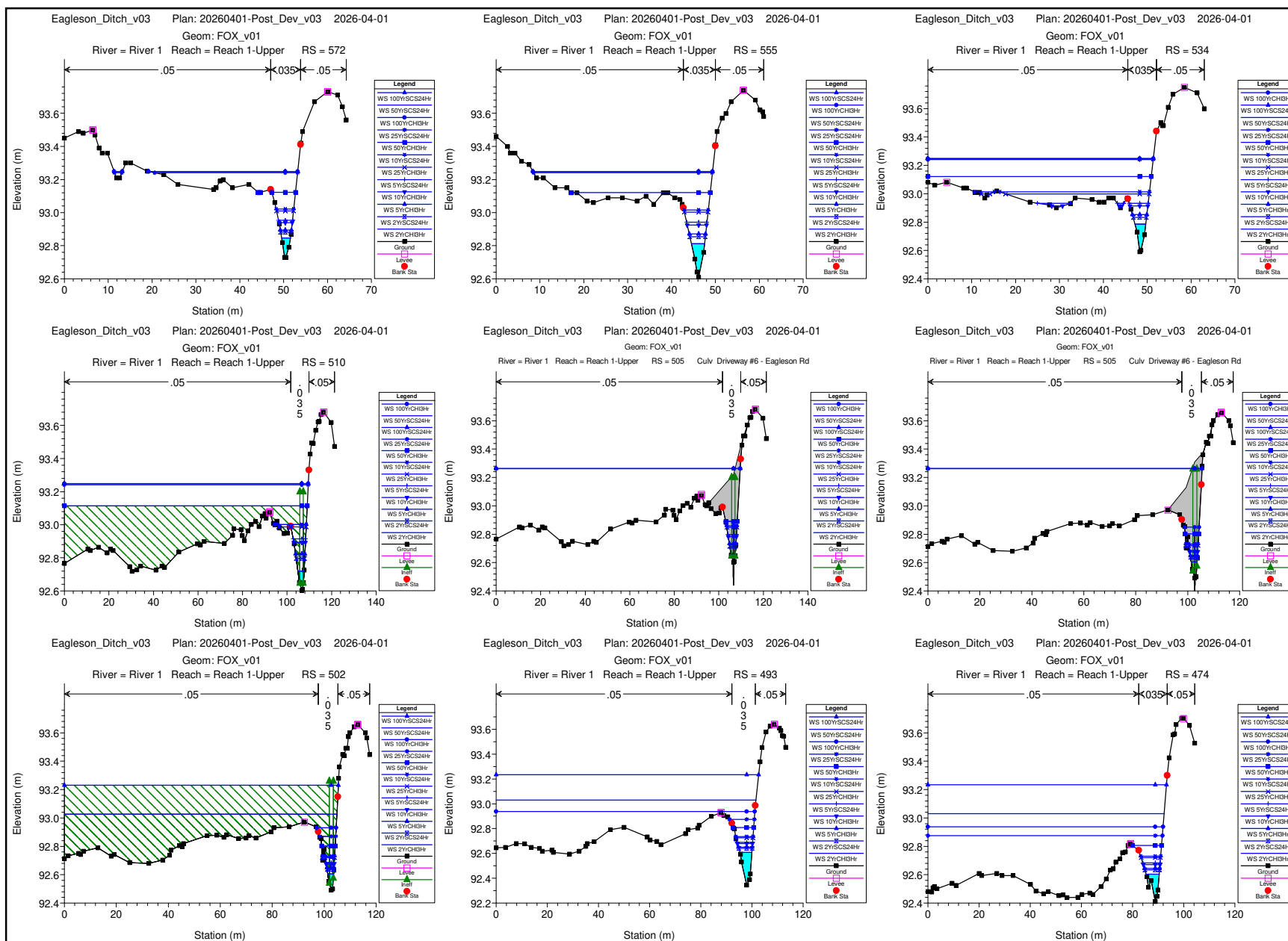
Eagleson_Ditch_v03 Plan: 20260401-Post_Dev_v03 2026-04-01

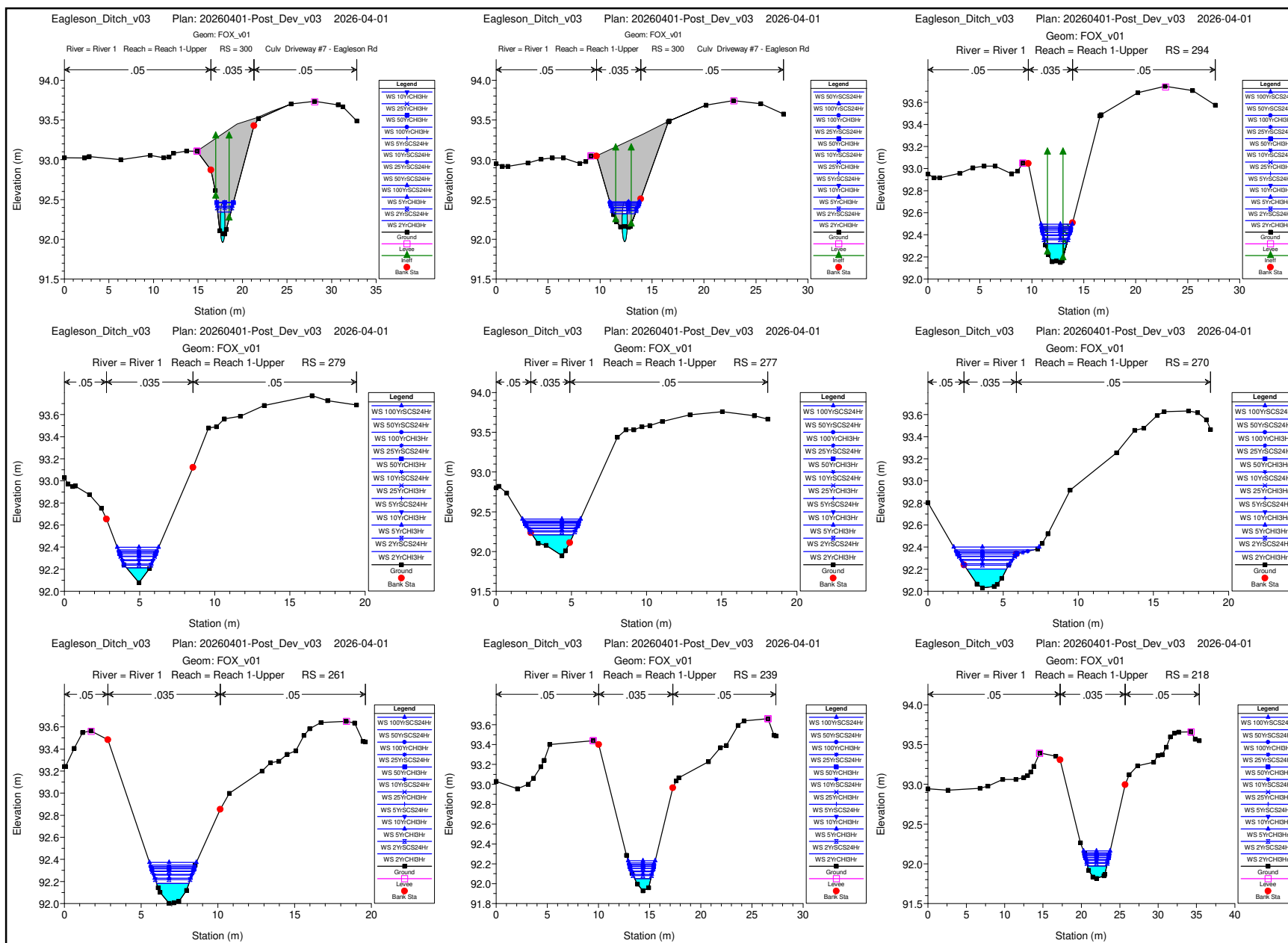
Geom: FOX_v01

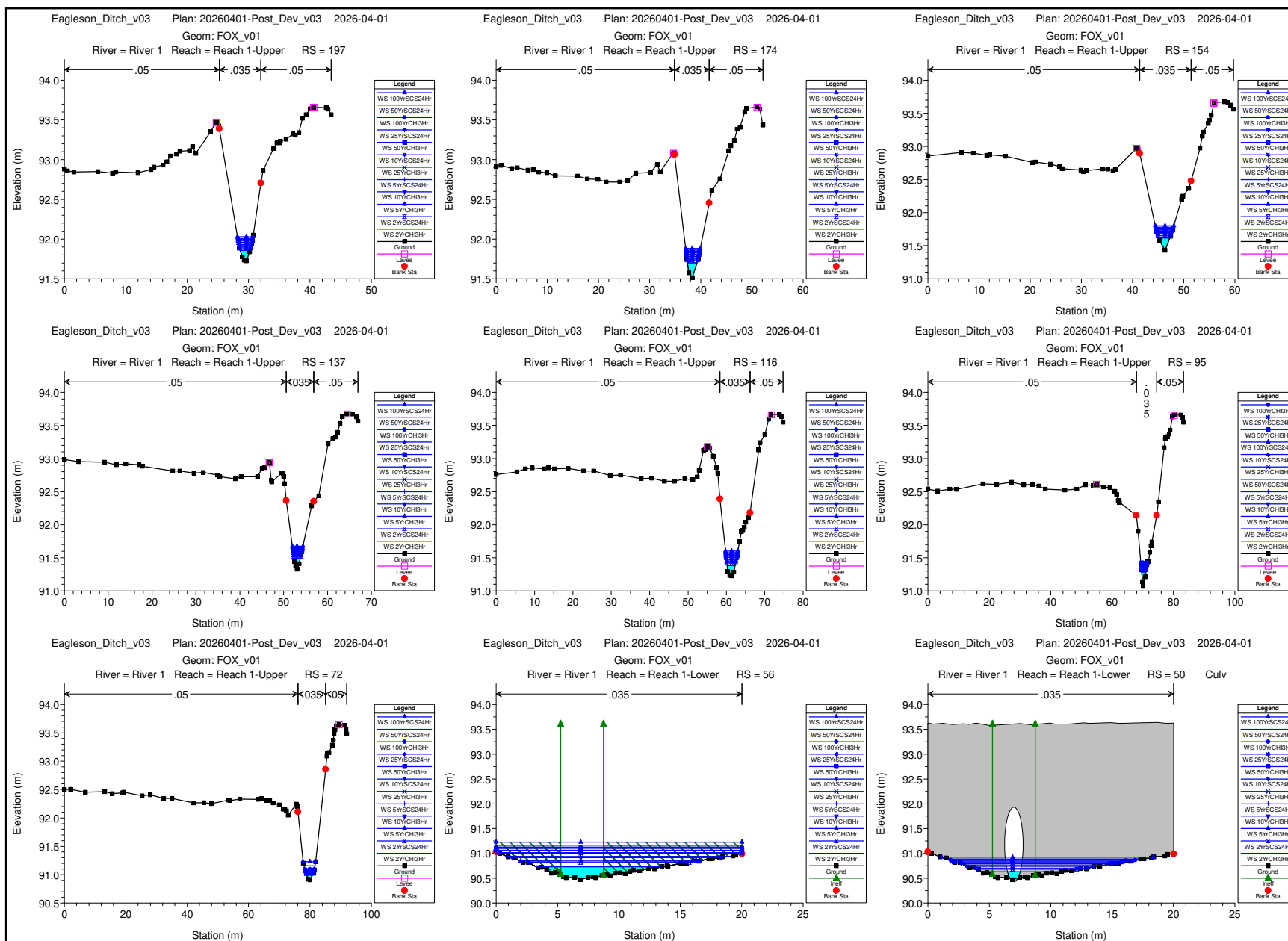


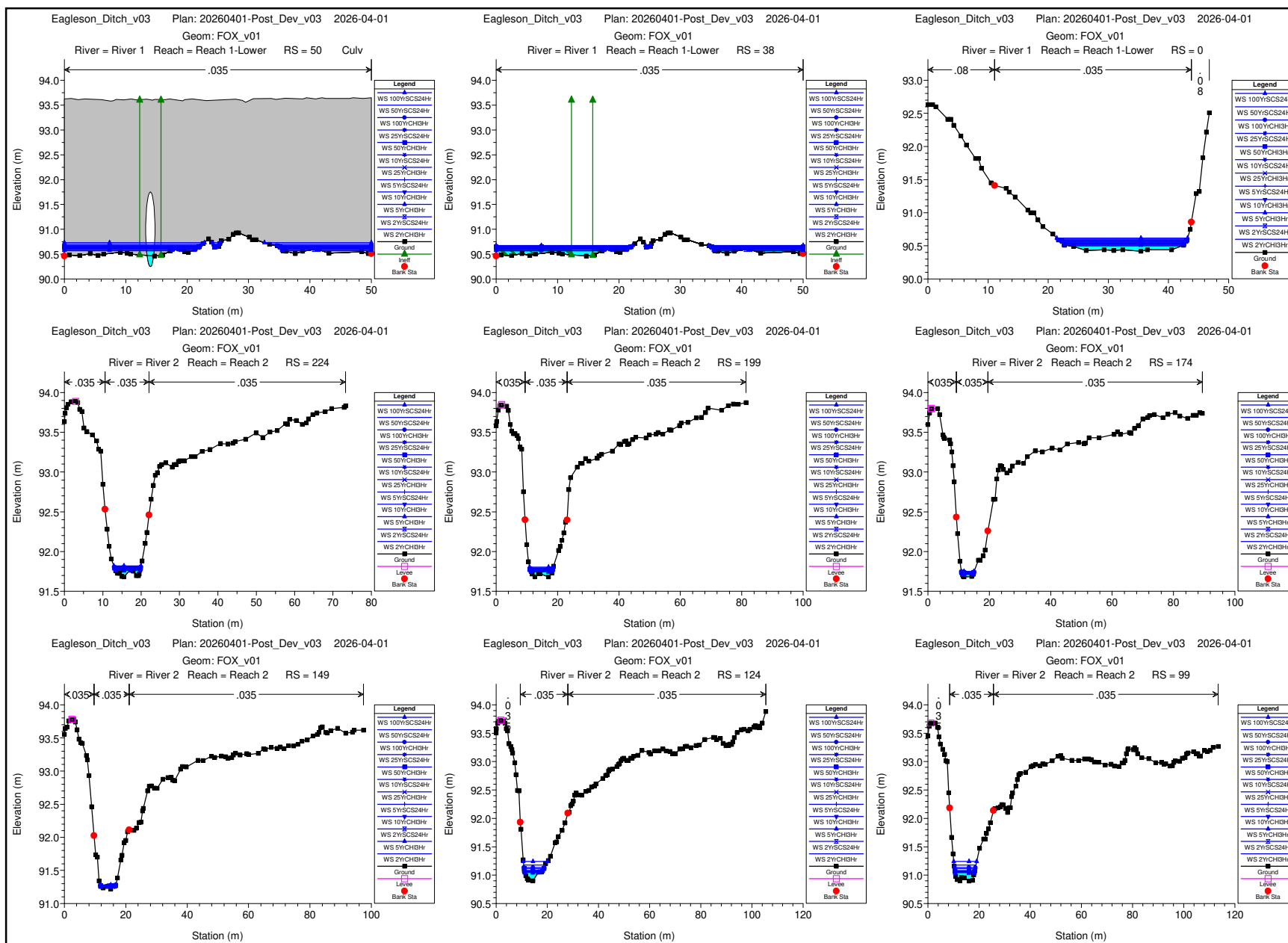








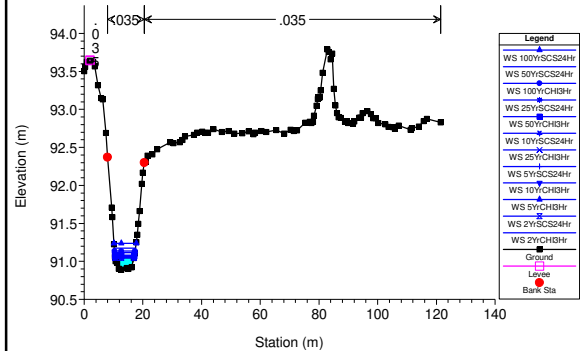




Eagleson_Ditch_v03 Plan: 20260401-Post_Dev_v03 2026-04-01

Geom: FOX_v01

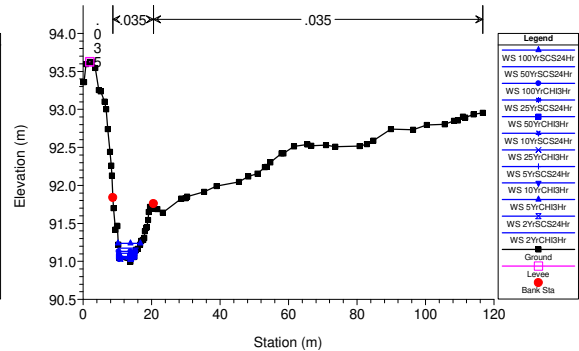
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Eagleson_Ditch_v03 Plan: 20260401-Post_Dev_v03 2026-04-01

Geom: FOX_v01

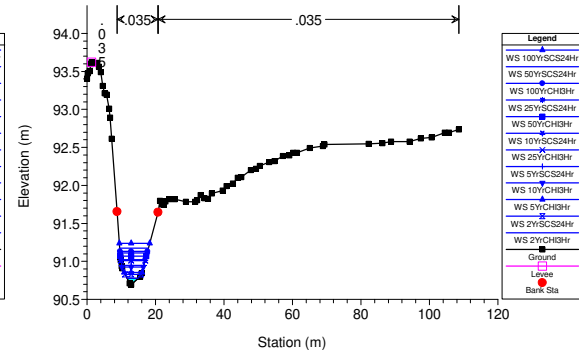
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Eagleson_Ditch_v03 Plan: 20260401-Post_Dev_v03 2026-04-01

Geom: FOX_v01

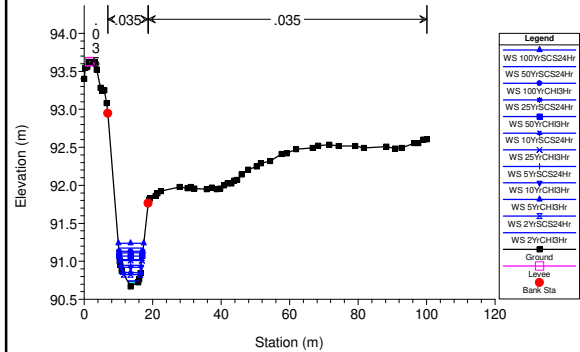
River = River 2 Reach = Reach 2 RS = 28



Eagleson_Ditch_v03 Plan: 20260401-Post_Dev_v03 2026-04-01

Geom: FOX_v01

River = River 2 Reach = Reach 2 RS = 7



River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 2	Reach 2	224	2YrCHI3Hr	0.02	91.68	91.76	91.71	91.76	0.000707	0.09	0.24	5.69	0.14
River 2	Reach 2	224	5YrCHI3Hr	0.03	91.68	91.77	91.72	91.77	0.000751	0.10	0.28	6.26	0.15
River 2	Reach 2	224	10YrCHI3Hr	0.04	91.68	91.78	91.72	91.78	0.000754	0.11	0.34	6.52	0.15
River 2	Reach 2	224	25YrCHI3Hr	0.05	91.68	91.79	91.73	91.79	0.000757	0.12	0.42	6.66	0.16
River 2	Reach 2	224	50YrCHI3Hr	0.06	91.68	91.80	91.74	91.80	0.000766	0.13	0.47	6.76	0.16
River 2	Reach 2	224	100YrCHI3Hr	0.08	91.68	91.80	91.74	91.81	0.000793	0.14	0.53	6.86	0.17
River 2	Reach 2	224	2YrSCS24Hr	0.03	91.68	91.76	91.72	91.76	0.000730	0.10	0.26	5.99	0.15
River 2	Reach 2	224	5YrSCS24Hr	0.04	91.68	91.78	91.73	91.78	0.000755	0.12	0.37	6.57	0.16
River 2	Reach 2	224	10YrSCS24Hr	0.06	91.68	91.79	91.73	91.79	0.000760	0.13	0.44	6.70	0.16
River 2	Reach 2	224	25YrSCS24Hr	0.07	91.68	91.80	91.74	91.80	0.000771	0.14	0.52	6.84	0.16
River 2	Reach 2	224	50YrSCS24Hr	0.09	91.68	91.81	91.74	91.81	0.000797	0.15	0.57	6.94	0.17
River 2	Reach 2	224	100YrSCS24Hr	0.10	91.68	91.82	91.75	91.82	0.000786	0.16	0.64	7.06	0.17
River 2	Reach 2	199	2YrCHI3Hr	0.02	91.68	91.75	91.71	91.75	0.000472	0.08	0.29	6.89	0.12
River 2	Reach 2	199	5YrCHI3Hr	0.03	91.68	91.75	91.71	91.75	0.000492	0.08	0.34	7.01	0.12
River 2	Reach 2	199	10YrCHI3Hr	0.04	91.68	91.76	91.72	91.76	0.000522	0.10	0.40	7.18	0.13
River 2	Reach 2	199	25YrCHI3Hr	0.05	91.68	91.77	91.72	91.77	0.000557	0.11	0.48	7.38	0.14
River 2	Reach 2	199	50YrCHI3Hr	0.06	91.68	91.78	91.72	91.78	0.000577	0.12	0.53	7.47	0.14
River 2	Reach 2	199	100YrCHI3Hr	0.08	91.68	91.79	91.73	91.79	0.000625	0.13	0.59	7.55	0.15
River 2	Reach 2	199	2YrSCS24Hr	0.03	91.68	91.75	91.71	91.75	0.000479	0.08	0.31	6.96	0.12
River 2	Reach 2	199	5YrSCS24Hr	0.04	91.68	91.77	91.72	91.77	0.000539	0.10	0.43	7.26	0.13
River 2	Reach 2	199	10YrSCS24Hr	0.06	91.68	91.78	91.72	91.78	0.000565	0.11	0.50	7.42	0.14
River 2	Reach 2	199	25YrSCS24Hr	0.07	91.68	91.79	91.73	91.79	0.000587	0.13	0.58	7.55	0.14
River 2	Reach 2	199	50YrSCS24Hr	0.09	91.68	91.79	91.73	91.79	0.000632	0.14	0.64	7.63	0.15
River 2	Reach 2	199	100YrSCS24Hr	0.10	91.68	91.80	91.73	91.80	0.000613	0.14	0.71	7.74	0.15
River 2	Reach 2	174	2YrCHI3Hr	0.02	91.68	91.71	91.70	91.72	0.008556	0.24	0.09	3.50	0.46
River 2	Reach 2	174	5YrCHI3Hr	0.03	91.68	91.72	91.70	91.72	0.009515	0.27	0.11	3.59	0.49
River 2	Reach 2	174	10YrCHI3Hr	0.04	91.68	91.72	91.71	91.73	0.009556	0.30	0.13	3.72	0.51
River 2	Reach 2	174	25YrCHI3Hr	0.05	91.68	91.73	91.72	91.74	0.010094	0.34	0.15	3.87	0.54
River 2	Reach 2	174	50YrCHI3Hr	0.06	91.68	91.74	91.72	91.74	0.009997	0.36	0.18	3.98	0.54
River 2	Reach 2	174	100YrCHI3Hr	0.08	91.68	91.74	91.72	91.75	0.010128	0.38	0.20	4.07	0.55
River 2	Reach 2	174	2YrSCS24Hr	0.03	91.68	91.71	91.70	91.72	0.010728	0.27	0.09	3.51	0.52
River 2	Reach 2	174	5YrSCS24Hr	0.04	91.68	91.73	91.71	91.73	0.010224	0.32	0.14	3.76	0.53
River 2	Reach 2	174	10YrSCS24Hr	0.06	91.68	91.73	91.72	91.74	0.010004	0.34	0.16	3.91	0.54
River 2	Reach 2	174	25YrSCS24Hr	0.07	91.68	91.74	91.72	91.75	0.010491	0.38	0.19	4.05	0.56
River 2	Reach 2	174	50YrSCS24Hr	0.09	91.68	91.75	91.73	91.75	0.011046	0.41	0.21	4.11	0.58
River 2	Reach 2	174	100YrSCS24Hr	0.10	91.68	91.75	91.73	91.76	0.011559	0.44	0.23	4.17	0.60
River 2	Reach 2	149	2YrCHI3Hr	0.02	91.22	91.26	91.26	91.26	0.061119	0.41	0.05	3.77	1.11
River 2	Reach 2	149	5YrCHI3Hr	0.03	91.22	91.26	91.26	91.27	0.047461	0.40	0.07	4.38	1.00
River 2	Reach 2	149	10YrCHI3Hr	0.04	91.22	91.26	91.26	91.27	0.047907	0.44	0.09	4.54	1.03
River 2	Reach 2	149	25YrCHI3Hr	0.05	91.22	91.27	91.27	91.28	0.043351	0.48	0.11	4.71	1.01
River 2	Reach 2	149	50YrCHI3Hr	0.06	91.22	91.27	91.27	91.28	0.044171	0.52	0.12	4.81	1.04
River 2	Reach 2	149	100YrCHI3Hr	0.08	91.22	91.27	91.27	91.29	0.042366	0.55	0.14	4.94	1.04
River 2	Reach 2	149	2YrSCS24Hr	0.03	91.22	91.26	91.26	91.27	0.037267	0.35	0.07	4.39	0.89
River 2	Reach 2	149	5YrSCS24Hr	0.04	91.22	91.27	91.27	91.28	0.041591	0.44	0.10	4.62	0.98
River 2	Reach 2	149	10YrSCS24Hr	0.06	91.22	91.27	91.27	91.28	0.043743	0.49	0.11	4.75	1.02
River 2	Reach 2	149	25YrSCS24Hr	0.07	91.22	91.27	91.27	91.29	0.040131	0.53	0.14	4.93	1.01
River 2	Reach 2	149	50YrSCS24Hr	0.09	91.22	91.28	91.28	91.29	0.036673	0.55	0.16	5.05	0.98
River 2	Reach 2	149	100YrSCS24Hr	0.10	91.22	91.28	91.28	91.30	0.033967	0.57	0.18	5.09	0.96
River 2	Reach 2	124	2YrCHI3Hr	0.02	90.90	91.05	90.93	91.05	0.000051	0.04	0.51	5.20	0.04
River 2	Reach 2	124	5YrCHI3Hr	0.03	90.90	91.05	90.94	91.05	0.000070	0.05	0.54	5.32	0.05
River 2	Reach 2	124	10YrCHI3Hr	0.04	90.90	91.06	90.94	91.06	0.000126	0.06	0.59	5.58	0.07
River 2	Reach 2	124	25YrCHI3Hr	0.05	90.90	91.07	90.95	91.07	0.000169	0.08	0.66	5.85	0.08
River 2	Reach 2	124	50YrCHI3Hr	0.06	90.90	91.08	90.95	91.08	0.000184	0.09	0.74	7.09	0.08
River 2	Reach 2	124	100YrCHI3Hr	0.08	90.90	91.14	90.96	91.14	0.000071	0.07	1.15	8.03	0.06
River 2	Reach 2	124	2YrSCS24Hr	0.03	90.90	91.05	90.93	91.05	0.000060	0.05	0.53	5.26	0.05
River 2	Reach 2	124	5YrSCS24Hr	0.04	90.90	91.07	90.94	91.07	0.000142	0.07	0.62	5.68	0.07
River 2	Reach 2	124	10YrSCS24Hr	0.06	90.90	91.08	90.95	91.08	0.000180	0.08	0.68	6.92	0.08
River 2	Reach 2	124	25YrSCS24Hr	0.07	90.90	91.12	90.95	91.12	0.000106	0.07	0.99	7.83	0.07
River 2	Reach 2	124	50YrSCS24Hr	0.09	90.90	91.18	90.96	91.18	0.000043	0.06	1.48	8.41	0.04
River 2	Reach 2	124	100YrSCS24Hr	0.10	90.90	91.24	90.97	91.24	0.000024	0.05	2.03	9.43	0.03
River 2	Reach 2	99	2YrCHI3Hr	0.02	90.90	91.05	90.92	91.05	0.000015	0.03	0.85	7.48	0.02
River 2	Reach 2	99	5YrCHI3Hr	0.03	90.90	91.05	90.93	91.05	0.000021	0.03	0.89	7.53	0.03
River 2	Reach 2	99	10YrCHI3Hr	0.04	90.90	91.06	90.93	91.06	0.000031	0.04	0.95	7.59	0.04
River 2	Reach 2	99	25YrCHI3Hr	0.05	90.90	91.07	90.94	91.07	0.000046	0.05	1.03	7.67	0.04
River 2	Reach 2	99	50YrCHI3Hr	0.06	90.90	91.08	90.94	91.08	0.000053	0.06	1.11	7.75	0.05
River 2	Reach 2	99	100YrCHI3Hr	0.08	90.90	91.14	90.94	91.14	0.000027	0.05	1.55	8.19	0.04
River 2	Reach 2	99	2YrSCS24Hr	0.03	90.90	91.05	90.92	91.05	0.000018	0.03	0.87	7.51	0.03
River 2	Reach 2	99	5YrSCS24Hr	0.04	90.90	91.06	90.93	91.06	0.000037	0.04	0.98	7.62	0.04
River 2	Reach 2	99	10YrSCS24Hr	0.06	90.90	91.07	90.94	91.07	0.000050	0.05	1.05	7.69	0.05
River 2	Reach 2	99	25YrSCS24Hr	0.07	90.90	91.12	90.94	91.12	0.000036	0.05	1.38	8.02	0.04
River 2	Reach 2	99	50YrSCS24Hr	0.09	90.90	91.18	90.95	91.18	0.000020	0.05	1.88	8.49	0.03
River 2	Reach 2	99	100YrSCS24Hr	0.10	90.90	91.24	90.95	91.24	0.000012	0.04	2.43	8.95	0.03
River 2	Reach 2	74	2YrCHI3Hr	0.02	90.89	91.05	90.92	91.05	0.000018	0.03	0.76	6.42	0.03
River 2	Reach 2	74	5YrCHI3Hr	0.03	90.89	91.05	90.92	91.05	0.000025	0.04	0.80	6.46	0.03
River 2	Reach 2	74	10YrCHI3Hr	0.04	90.89	91.06	90.92	91.06	0.000038	0.04	0.85	6.52	0.04
River 2	Reach 2	74	25YrCHI3Hr	0.05	90.89	91.07	90.93	91.07	0.000056	0.06	0.91	6.60	0.05
River 2	Reach 2	74	50YrCHI3Hr	0.06	90.89	91.08	90.93	91.08	0.000067	0.06	0.98	6.67	0.05
River 2	Reach 2	74	100YrCHI3Hr	0.08	90.89	91.14	90.93	91.14	0.000034	0.06	1.36	7.04	0.04
River 2	Reach 2	74	2YrSCS24Hr	0.03	90.89	91.05	90.92	91.05	0.000021	0.03	0.78	6.44	0.03
River 2	Reach 2	74	5YrSCS24Hr	0.04	90.89	91.06	90.93	91.06	0.000044	0.05	0.87	6.55	0.04
River 2	Reach 2	74	10YrSCS24Hr	0.06	90.89	91.07	90.93	91.07	0.000062	0.06	0.93	6.62	0.05
River 2	Reach 2	74	25YrSCS24Hr	0.07	90.89	91.11	90.93	91.11	0.000045	0.06	1.21	6.91	0.05
River 2	Reach 2	74	50YrSCS24Hr	0.09	90.89	91.18	90.94	91.18	0.000025	0.05	1.65	7.28	0.04
River 2	Reach 2	74	100YrSCS24Hr	0.10	90.89	91.24	90.94	91.24	0.000016	0.05	2.12	7.65	0.03

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 2	Reach 2	49	2YrCHI3Hr	0.02	91.00	91.04	91.04	91.04	0.041786	0.40	0.05	2.97	0.96
River 2	Reach 2	49	5YrCHI3Hr	0.03	91.00	91.04	91.04	91.05	0.047918	0.45	0.06	3.17	1.04
River 2	Reach 2	49	10YrCHI3Hr	0.04	91.00	91.04	91.04	91.05	0.036540	0.45	0.08	3.51	0.94
River 2	Reach 2	49	25YrCHI3Hr	0.05	91.00	91.05	91.05	91.06	0.040961	0.53	0.10	3.53	1.01
River 2	Reach 2	49	50YrCHI3Hr	0.06	91.00	91.06	91.05	91.07	0.014332	0.40	0.16	3.91	0.64
River 2	Reach 2	49	100YrCHI3Hr	0.08	91.00	91.13	91.06	91.13	0.000828	0.17	0.45	4.91	0.18
River 2	Reach 2	49	2YrSCS24Hr	0.03	91.00	91.04	91.04	91.05	0.045843	0.43	0.06	3.06	1.01
River 2	Reach 2	49	5YrSCS24Hr	0.04	91.00	91.05	91.05	91.06	0.034072	0.47	0.09	3.52	0.92
River 2	Reach 2	49	10YrSCS24Hr	0.06	91.00	91.05	91.05	91.07	0.033949	0.51	0.11	3.55	0.94
River 2	Reach 2	49	25YrSCS24Hr	0.07	91.00	91.11	91.06	91.11	0.001793	0.21	0.34	4.60	0.25
River 2	Reach 2	49	50YrSCS24Hr	0.09	91.00	91.17	91.06	91.17	0.000366	0.13	0.67	5.80	0.12
River 2	Reach 2	49	100YrSCS24Hr	0.10	91.00	91.24	91.07	91.24	0.000125	0.09	1.07	6.54	0.07
River 2	Reach 2	28	2YrCHI3Hr	0.02	90.69	90.78	90.74	90.78	0.001371	0.13	0.15	3.29	0.20
River 2	Reach 2	28	5YrCHI3Hr	0.04	90.69	90.85	90.75	90.85	0.000177	0.08	0.48	5.18	0.08
River 2	Reach 2	28	10YrCHI3Hr	0.05	90.69	90.92	90.76	90.92	0.000054	0.06	0.88	6.27	0.05
River 2	Reach 2	28	25YrCHI3Hr	0.07	90.69	91.01	90.76	91.01	0.000023	0.05	1.45	7.10	0.03
River 2	Reach 2	28	50YrCHI3Hr	0.08	90.69	91.07	90.77	91.07	0.000015	0.04	1.90	7.62	0.03
River 2	Reach 2	28	100YrCHI3Hr	0.10	90.69	91.13	90.78	91.13	0.000011	0.04	2.39	8.10	0.02
River 2	Reach 2	28	2YrSCS24Hr	0.03	90.69	90.83	90.75	90.83	0.000322	0.09	0.36	4.71	0.11
River 2	Reach 2	28	5YrSCS24Hr	0.06	90.69	90.95	90.76	90.95	0.000043	0.05	1.04	6.53	0.04
River 2	Reach 2	28	10YrSCS24Hr	0.07	90.69	91.02	90.77	91.02	0.000022	0.05	1.55	7.23	0.03
River 2	Reach 2	28	25YrSCS24Hr	0.10	90.69	91.11	90.78	91.11	0.000013	0.04	2.21	7.92	0.03
River 2	Reach 2	28	50YrSCS24Hr	0.11	90.69	91.17	90.78	91.17	0.000010	0.04	2.73	8.41	0.02
River 2	Reach 2	28	100YrSCS24Hr	0.14	90.69	91.24	90.79	91.24	0.000008	0.04	3.29	8.89	0.02
River 2	Reach 2	7	2YrCHI3Hr	0.02	90.67	90.74	90.71	90.74	0.002152	0.15	0.13	3.25	0.25
River 2	Reach 2	7	5YrCHI3Hr	0.04	90.67	90.85	90.72	90.85	0.000083	0.06	0.60	5.19	0.06
River 2	Reach 2	7	10YrCHI3Hr	0.05	90.67	90.92	90.73	90.92	0.000032	0.05	1.00	5.91	0.04
River 2	Reach 2	7	25YrCHI3Hr	0.07	90.67	91.01	90.73	91.01	0.000017	0.04	1.53	6.42	0.03
River 2	Reach 2	7	50YrCHI3Hr	0.08	90.67	91.07	90.74	91.07	0.000012	0.04	1.93	6.67	0.03
River 2	Reach 2	7	100YrCHI3Hr	0.10	90.67	91.13	90.75	91.13	0.000009	0.04	2.36	6.94	0.02
River 2	Reach 2	7	2YrSCS24Hr	0.03	90.67	90.83	90.72	90.83	0.000130	0.07	0.47	4.76	0.07
River 2	Reach 2	7	5YrSCS24Hr	0.06	90.67	90.95	90.73	90.95	0.000028	0.05	1.15	6.08	0.04
River 2	Reach 2	7	10YrSCS24Hr	0.07	90.67	91.02	90.74	91.02	0.000016	0.05	1.62	6.47	0.03
River 2	Reach 2	7	25YrSCS24Hr	0.10	90.67	91.11	90.74	91.11	0.000011	0.04	2.20	6.84	0.02
River 2	Reach 2	7	50YrSCS24Hr	0.11	90.67	91.17	90.75	91.17	0.000009	0.04	2.65	7.11	0.02
River 2	Reach 2	7	100YrSCS24Hr	0.14	90.67	91.24	90.76	91.24	0.000007	0.04	3.12	7.38	0.02
River 1	Reach 1-Upper	908	2YrCHI3Hr	0.02	94.14	94.22	94.18	94.22	0.001632	0.16	0.12	2.47	0.22
River 1	Reach 1-Upper	908	5YrCHI3Hr	0.03	94.14	94.23	94.19	94.23	0.001834	0.18	0.15	2.66	0.24
River 1	Reach 1-Upper	908	10YrCHI3Hr	0.03	94.14	94.24	94.19	94.24	0.001946	0.19	0.17	2.76	0.25
River 1	Reach 1-Upper	908	25YrCHI3Hr	0.04	94.14	94.25	94.20	94.25	0.002058	0.21	0.18	2.87	0.26
River 1	Reach 1-Upper	908	50YrCHI3Hr	0.04	94.14	94.25	94.20	94.25	0.002138	0.22	0.20	2.95	0.27
River 1	Reach 1-Upper	908	100YrCHI3Hr	0.05	94.14	94.26	94.20	94.26	0.002189	0.23	0.21	3.04	0.27
River 1	Reach 1-Upper	908	2YrSCS24Hr	0.02	94.14	94.23	94.19	94.23	0.001752	0.17	0.14	2.59	0.23
River 1	Reach 1-Upper	908	5YrSCS24Hr	0.03	94.14	94.24	94.19	94.24	0.001946	0.19	0.17	2.76	0.25
River 1	Reach 1-Upper	908	10YrSCS24Hr	0.04	94.14	94.25	94.20	94.25	0.002058	0.21	0.18	2.87	0.26
River 1	Reach 1-Upper	908	25YrSCS24Hr	0.04	94.14	94.25	94.20	94.25	0.002153	0.22	0.20	2.97	0.27
River 1	Reach 1-Upper	908	50YrSCS24Hr	0.05	94.14	94.26	94.20	94.26	0.002199	0.23	0.22	3.05	0.27
River 1	Reach 1-Upper	908	100YrSCS24Hr	0.06	94.14	94.26	94.21	94.26	0.002259	0.24	0.23	3.15	0.28
River 1	Reach 1-Upper	887	2YrCHI3Hr	0.02	94.10	94.16	94.14	94.16	0.007210	0.24	0.08	2.48	0.44
River 1	Reach 1-Upper	887	5YrCHI3Hr	0.03	94.10	94.17	94.15	94.17	0.005770	0.25	0.11	2.82	0.40
River 1	Reach 1-Upper	887	10YrCHI3Hr	0.03	94.10	94.18	94.15	94.18	0.005292	0.25	0.13	2.98	0.39
River 1	Reach 1-Upper	887	25YrCHI3Hr	0.04	94.10	94.18	94.15	94.19	0.004885	0.26	0.15	3.16	0.38
River 1	Reach 1-Upper	887	50YrCHI3Hr	0.04	94.10	94.19	94.16	94.19	0.004480	0.26	0.17	3.32	0.37
River 1	Reach 1-Upper	887	100YrCHI3Hr	0.05	94.10	94.19	94.16	94.20	0.004579	0.27	0.18	3.42	0.38
River 1	Reach 1-Upper	887	2YrSCS24Hr	0.02	94.10	94.17	94.15	94.17	0.006295	0.25	0.10	2.71	0.42
River 1	Reach 1-Upper	887	5YrSCS24Hr	0.03	94.10	94.18	94.15	94.18	0.005292	0.25	0.13	2.98	0.39
River 1	Reach 1-Upper	887	10YrSCS24Hr	0.04	94.10	94.18	94.15	94.19	0.004885	0.26	0.15	3.16	0.38
River 1	Reach 1-Upper	887	25YrSCS24Hr	0.04	94.10	94.19	94.16	94.19	0.004434	0.26	0.17	3.35	0.37
River 1	Reach 1-Upper	887	50YrSCS24Hr	0.05	94.10	94.19	94.16	94.20	0.004587	0.27	0.18	3.44	0.38
River 1	Reach 1-Upper	887	100YrSCS24Hr	0.06	94.10	94.20	94.16	94.20	0.004863	0.29	0.19	3.53	0.39
River 1	Reach 1-Upper	868	2YrCHI3Hr	0.02	93.96	94.03	94.01	94.03	0.006094	0.26	0.07	1.89	0.41
River 1	Reach 1-Upper	868	5YrCHI3Hr	0.03	93.96	94.04	94.02	94.04	0.008117	0.32	0.09	1.99	0.49
River 1	Reach 1-Upper	868	10YrCHI3Hr	0.03	93.96	94.04	94.02	94.04	0.009697	0.35	0.09	2.03	0.53
River 1	Reach 1-Upper	868	25YrCHI3Hr	0.04	93.96	94.04	94.02	94.05	0.011359	0.39	0.10	2.08	0.58
River 1	Reach 1-Upper	868	50YrCHI3Hr	0.04	93.96	94.04	94.03	94.05	0.012637	0.42	0.10	2.12	0.62
River 1	Reach 1-Upper	868	100YrCHI3Hr	0.05	93.96	94.05	94.03	94.06	0.013009	0.44	0.11	2.18	0.63
River 1	Reach 1-Upper	868	2YrSCS24Hr	0.02	93.96	94.03	94.01	94.04	0.007224	0.29	0.08	1.96	0.46
River 1	Reach 1-Upper	868	5YrSCS24Hr	0.03	93.96	94.04	94.02	94.04	0.009697	0.35	0.09	2.03	0.53
River 1	Reach 1-Upper	868	10YrSCS24Hr	0.04	93.96	94.04	94.02	94.05	0.011359	0.39	0.10	2.08	0.58
River 1	Reach 1-Upper	868	25YrSCS24Hr	0.04	93.96	94.04	94.03	94.05	0.013016	0.43	0.10	2.13	0.63
River 1	Reach 1-Upper	868	50YrSCS24Hr	0.05	93.96	94.05	94.03	94.06	0.012976	0.44	0.11	2.19	0.63
River 1	Reach 1-Upper	868	100YrSCS24Hr	0.06	93.96	94.05	94.04	94.06	0.011619	0.44	0.12	2.30	0.60
River 1	Reach 1-Upper	848	2YrCHI3Hr	0.02	93.87	93.92	93.90	93.93	0.004549	0.20	0.09	2.73	0.35
River 1	Reach 1-Upper	848	5YrCHI3Hr	0.03	93.87	93.94	93.91	93.94	0.003629	0.21	0.13	3.01	0.32
River 1	Reach 1-Upper	848	10YrCHI3Hr	0.03	93.87	93.94	93.91	93.95	0.002995	0.21	0.15	3.10	0.30
River 1	Reach 1-Upper	848	25YrCHI3Hr	0.04	93.87	93.95	93.92	93.96	0.002536	0.21	0.18	3.19	0.28
River 1	Reach 1-Upper	848	50YrCHI3Hr	0.04	93.87	93.96	93.92	93.96	0.002177	0.21	0.21	3.28	0.27
River 1	Reach 1-Upper	848	100YrCHI3Hr	0.05	93.87	93.97	93.92	93.97	0.002108	0.22	0.22	3.34	0.27
River 1	Reach 1-Upper	848	2YrSCS24Hr	0.02	93.87	93.93	93.91	93.93	0.004188	0.21	0.11	2.93	0.34
River 1	Reach 1-Upper	848	5YrSCS24Hr	0.03	93.87	93.94	93.91	93.95	0.002995	0.21	0.15	3.10	0.30
River 1	Reach 1-Upper	848	10YrSCS24Hr	0.04	93.87	93.95	93.92	93.96	0.002536	0.21	0.18	3.19	0.28
River 1	Reach 1-Upper	848	25YrSCS24Hr	0.04	93.87	93.96	93.92	93.96	0.002105	0.21	0.21	3.30	0.26
River 1	Reach 1-Upper	848	50YrSCS24Hr	0.05	93.87	93.97	93.92	93.97	0.002100	0.22	0.23	3.35	0.27

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	848	100YrSCS24Hr	0.06	93.87	93.97	93.92	93.97	0.002380	0.23	0.23	3.38	0.28
River 1	Reach 1-Upper	828	2YrCHI3Hr	0.02	93.78	93.86	93.82	93.86	0.002644	0.17	0.11	2.77	0.27
River 1	Reach 1-Upper	828	5YrCHI3Hr	0.03	93.78	93.86	93.83	93.86	0.004666	0.23	0.12	2.86	0.37
River 1	Reach 1-Upper	828	10YrCHI3Hr	0.03	93.78	93.86	93.83	93.86	0.007085	0.28	0.11	2.81	0.45
River 1	Reach 1-Upper	828	25YrCHI3Hr	0.04	93.78	93.85	93.84	93.86	0.014294	0.39	0.10	2.58	0.63
River 1	Reach 1-Upper	828	50YrCHI3Hr	0.04	93.78	93.84	93.84	93.86	0.029914	0.53	0.08	2.30	0.90
River 1	Reach 1-Upper	828	100YrCHI3Hr	0.05	93.78	93.84	93.84	93.86	0.034267	0.57	0.08	2.34	0.97
River 1	Reach 1-Upper	828	2YrSCS24Hr	0.02	93.78	93.86	93.82	93.86	0.003210	0.19	0.12	2.95	0.30
River 1	Reach 1-Upper	828	5YrSCS24Hr	0.03	93.78	93.86	93.83	93.86	0.007085	0.28	0.11	2.81	0.45
River 1	Reach 1-Upper	828	10YrSCS24Hr	0.04	93.78	93.85	93.84	93.86	0.014294	0.39	0.10	2.58	0.63
River 1	Reach 1-Upper	828	25YrSCS24Hr	0.04	93.78	93.84	93.84	93.86	0.035591	0.57	0.08	2.22	0.98
River 1	Reach 1-Upper	828	50YrSCS24Hr	0.05	93.78	93.84	93.84	93.86	0.036015	0.59	0.08	2.34	0.99
River 1	Reach 1-Upper	828	100YrSCS24Hr	0.06	93.78	93.86	93.85	93.87	0.020193	0.48	0.11	2.83	0.76
River 1	Reach 1-Upper	807	2YrCHI3Hr	0.02	93.65	93.70	93.70	93.71	0.044163	0.52	0.04	1.46	1.04
River 1	Reach 1-Upper	807	5YrCHI3Hr	0.03	93.65	93.73	93.71	93.73	0.007733	0.31	0.09	2.04	0.47
River 1	Reach 1-Upper	807	10YrCHI3Hr	0.03	93.65	93.75	93.71	93.75	0.003849	0.25	0.13	2.40	0.35
River 1	Reach 1-Upper	807	25YrCHI3Hr	0.04	93.65	93.77	93.71	93.77	0.001862	0.20	0.19	2.86	0.25
River 1	Reach 1-Upper	807	50YrCHI3Hr	0.04	93.65	93.79	93.72	93.79	0.001072	0.17	0.25	3.27	0.20
River 1	Reach 1-Upper	807	100YrCHI3Hr	0.05	93.65	93.81	93.72	93.81	0.000618	0.15	0.32	3.62	0.15
River 1	Reach 1-Upper	807	2YrSCS24Hr	0.02	93.65	93.71	93.70	93.72	0.021814	0.43	0.06	1.70	0.76
River 1	Reach 1-Upper	807	5YrSCS24Hr	0.03	93.65	93.75	93.71	93.75	0.003849	0.25	0.13	2.40	0.35
River 1	Reach 1-Upper	807	10YrSCS24Hr	0.04	93.65	93.77	93.71	93.77	0.001862	0.20	0.19	2.86	0.25
River 1	Reach 1-Upper	807	25YrSCS24Hr	0.04	93.65	93.79	93.72	93.79	0.000946	0.17	0.26	3.34	0.19
River 1	Reach 1-Upper	807	50YrSCS24Hr	0.05	93.65	93.81	93.72	93.82	0.000538	0.15	0.34	3.71	0.14
River 1	Reach 1-Upper	807	100YrSCS24Hr	0.06	93.65	93.84	93.73	93.85	0.000286	0.13	0.46	4.22	0.11
River 1	Reach 1-Upper	789	2YrCHI3Hr	0.02	93.49	93.69	93.53	93.69	0.000037	0.05	0.38	3.33	0.04
River 1	Reach 1-Upper	789	5YrCHI3Hr	0.03	93.49	93.73	93.54	93.73	0.000036	0.06	0.47	3.77	0.04
River 1	Reach 1-Upper	789	10YrCHI3Hr	0.03	93.49	93.74	93.55	93.74	0.000038	0.06	0.51	4.05	0.04
River 1	Reach 1-Upper	789	25YrCHI3Hr	0.04	93.49	93.77	93.55	93.77	0.000038	0.07	0.56	4.42	0.04
River 1	Reach 1-Upper	789	50YrCHI3Hr	0.04	93.49	93.79	93.55	93.79	0.000038	0.07	0.61	4.75	0.04
River 1	Reach 1-Upper	789	100YrCHI3Hr	0.05	93.49	93.81	93.56	93.81	0.000036	0.07	0.66	5.08	0.04
River 1	Reach 1-Upper	789	2YrSCS24Hr	0.02	93.49	93.71	93.54	93.71	0.000038	0.06	0.43	3.55	0.04
River 1	Reach 1-Upper	789	5YrSCS24Hr	0.03	93.49	93.74	93.55	93.74	0.000038	0.06	0.51	4.05	0.04
River 1	Reach 1-Upper	789	10YrSCS24Hr	0.04	93.49	93.77	93.55	93.77	0.000038	0.07	0.56	4.42	0.04
River 1	Reach 1-Upper	789	25YrSCS24Hr	0.04	93.49	93.79	93.56	93.79	0.000037	0.07	0.62	4.81	0.04
River 1	Reach 1-Upper	789	50YrSCS24Hr	0.05	93.49	93.81	93.56	93.81	0.000035	0.07	0.67	5.17	0.04
River 1	Reach 1-Upper	789	100YrSCS24Hr	0.06	93.49	93.84	93.56	93.84	0.000032	0.07	0.75	5.59	0.04
River 1	Reach 1-Upper	764		Culvert									
River 1	Reach 1-Upper	759	2YrCHI3Hr	0.02	93.46	93.54	93.50	93.54	0.002883	0.23	0.08	1.83	0.30
River 1	Reach 1-Upper	759	5YrCHI3Hr	0.03	93.46	93.56	93.51	93.56	0.001988	0.23	0.12	2.15	0.26
River 1	Reach 1-Upper	759	10YrCHI3Hr	0.03	93.46	93.58	93.51	93.58	0.001375	0.22	0.14	2.40	0.23
River 1	Reach 1-Upper	759	25YrCHI3Hr	0.04	93.46	93.61	93.52	93.61	0.000864	0.21	0.18	2.73	0.19
River 1	Reach 1-Upper	759	50YrCHI3Hr	0.04	93.46	93.65	93.52	93.65	0.000433	0.18	0.24	3.23	0.14
River 1	Reach 1-Upper	759	100YrCHI3Hr	0.05	93.46	93.68	93.53	93.68	0.000309	0.17	0.29	3.59	0.12
River 1	Reach 1-Upper	759	2YrSCS24Hr	0.02	93.46	93.55	93.51	93.56	0.002355	0.23	0.10	2.03	0.28
River 1	Reach 1-Upper	759	5YrSCS24Hr	0.03	93.46	93.58	93.51	93.58	0.001375	0.22	0.14	2.40	0.23
River 1	Reach 1-Upper	759	10YrSCS24Hr	0.04	93.46	93.61	93.52	93.61	0.000864	0.21	0.18	2.73	0.19
River 1	Reach 1-Upper	759	25YrSCS24Hr	0.04	93.46	93.65	93.52	93.65	0.000408	0.17	0.25	3.29	0.14
River 1	Reach 1-Upper	759	50YrSCS24Hr	0.05	93.46	93.69	93.53	93.69	0.000262	0.16	0.31	3.73	0.11
River 1	Reach 1-Upper	759	100YrSCS24Hr	0.06	93.46	93.73	93.53	93.73	0.000176	0.15	0.37	4.23	0.10
River 1	Reach 1-Upper	743	2YrCHI3Hr	0.02	93.40	93.49	93.45	93.50	0.002754	0.25	0.08	1.55	0.30
River 1	Reach 1-Upper	743	5YrCHI3Hr	0.03	93.40	93.54	93.46	93.54	0.001046	0.20	0.13	2.00	0.20
River 1	Reach 1-Upper	743	10YrCHI3Hr	0.03	93.40	93.57	93.47	93.57	0.000686	0.19	0.17	2.25	0.17
River 1	Reach 1-Upper	743	25YrCHI3Hr	0.04	93.40	93.60	93.47	93.60	0.000466	0.18	0.21	2.59	0.14
River 1	Reach 1-Upper	743	50YrCHI3Hr	0.04	93.40	93.64	93.48	93.64	0.000265	0.16	0.27	3.11	0.11
River 1	Reach 1-Upper	743	100YrCHI3Hr	0.05	93.40	93.67	93.48	93.67	0.000207	0.16	0.31	3.83	0.10
River 1	Reach 1-Upper	743	2YrSCS24Hr	0.02	93.40	93.52	93.46	93.52	0.001463	0.21	0.11	1.84	0.23
River 1	Reach 1-Upper	743	5YrSCS24Hr	0.03	93.40	93.57	93.47	93.57	0.000696	0.19	0.17	2.25	0.17
River 1	Reach 1-Upper	743	10YrSCS24Hr	0.04	93.40	93.60	93.47	93.60	0.000466	0.18	0.21	2.59	0.14
River 1	Reach 1-Upper	743	25YrSCS24Hr	0.04	93.40	93.65	93.48	93.65	0.000254	0.16	0.27	3.18	0.11
River 1	Reach 1-Upper	743	50YrSCS24Hr	0.05	93.40	93.68	93.48	93.69	0.000181	0.15	0.32	4.15	0.10
River 1	Reach 1-Upper	743	100YrSCS24Hr	0.06	93.40	93.73	93.49	93.73	0.000134	0.14	0.38	4.85	0.09
River 1	Reach 1-Upper	733		Culvert									
River 1	Reach 1-Upper	728	2YrCHI3Hr	0.02	93.33	93.48	93.39	93.48	0.000387	0.13	0.15	1.68	0.12
River 1	Reach 1-Upper	728	5YrCHI3Hr	0.03	93.33	93.52	93.40	93.52	0.000273	0.13	0.21	1.98	0.11
River 1	Reach 1-Upper	728	10YrCHI3Hr	0.03	93.33	93.55	93.40	93.55	0.000233	0.13	0.24	2.16	0.10
River 1	Reach 1-Upper	728	25YrCHI3Hr	0.04	93.33	93.58	93.41	93.58	0.000196	0.14	0.28	2.37	0.10
River 1	Reach 1-Upper	728	50YrCHI3Hr	0.04	93.33	93.62	93.41	93.62	0.000131	0.13	0.34	2.70	0.08
River 1	Reach 1-Upper	728	100YrCHI3Hr	0.05	93.33	93.64	93.42	93.64	0.000117	0.13	0.38	2.90	0.08
River 1	Reach 1-Upper	728	2YrSCS24Hr	0.02	93.33	93.51	93.39	93.51	0.000306	0.13	0.19	1.87	0.11
River 1	Reach 1-Upper	728	5YrSCS24Hr	0.03	93.33	93.55	93.40	93.55	0.000233	0.13	0.24	2.16	0.10
River 1	Reach 1-Upper	728	10YrSCS24Hr	0.04	93.33	93.58	93.41	93.58	0.000196	0.14	0.28	2.37	0.10
River 1	Reach 1-Upper	728	25YrSCS24Hr	0.04	93.33	93.62	93.41	93.62	0.000128	0.13	0.35	2.74	0.08
River 1	Reach 1-Upper	728	50YrSCS24Hr	0.05	93.33	93.66	93.42	93.66	0.000106	0.12	0.39	2.98	0.08
River 1	Reach 1-Upper	728	100YrSCS24Hr	0.06	93.33	93.69	93.42	93.69	0.000091	0.12	0.44	3.24	0.07
River 1	Reach 1-Upper	715	2YrCHI3Hr	0.02	93.32	93.48	93.36	93.48	0.000151	0.10	0.20	2.44	0.08
River 1	Reach 1-Upper	715	5YrCHI3Hr	0.03	93.32	93.52	93.37	93.52	0.000132	0.11	0.26	2.85	0.08
River 1	Reach 1-Upper	715	10YrCHI3Hr	0.03	93.32	93.54	93.37	93.54	0.000123	0.11	0.29	3.09	0.08
River 1	Reach 1-Upper	715	25YrCHI3Hr	0.04	93.32	93.57	93.38	93.57	0.000112	0.11	0.33	3.38	0.08
River 1	Reach 1-Upper	715	50YrCHI3Hr	0.04	93.32	93.62	93.38	93.62	0.000091	0.11	0.39	3.82	0.07
River 1	Reach 1-Upper	715	100YrCHI3Hr	0.05	93.32	93.64	93.39	93.64	0.000075	0.11	0.43	4.07	0.06

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	715	2YrSCS24Hr	0.02	93.32	93.51	93.36	93.51	0.000138	0.10	0.24	2.70	0.08
River 1	Reach 1-Upper	715	5YrSCS24Hr	0.03	93.32	93.54	93.37	93.54	0.000123	0.11	0.29	3.09	0.08
River 1	Reach 1-Upper	715	10YrSCS24Hr	0.04	93.32	93.57	93.38	93.57	0.000112	0.11	0.33	3.38	0.08
River 1	Reach 1-Upper	715	25YrSCS24Hr	0.04	93.32	93.62	93.39	93.62	0.000080	0.11	0.40	3.86	0.07
River 1	Reach 1-Upper	715	50YrSCS24Hr	0.05	93.32	93.65	93.39	93.65	0.000070	0.11	0.44	4.19	0.06
River 1	Reach 1-Upper	715	100YrSCS24Hr	0.06	93.32	93.69	93.39	93.69	0.000062	0.11	0.49	4.53	0.06
River 1	Reach 1-Upper	705	Culvert										
River 1	Reach 1-Upper	698	2YrCHI3Hr	0.02	93.24	93.31	93.29	93.32	0.010647	0.37	0.05	1.15	0.56
River 1	Reach 1-Upper	698	5YrCHI3Hr	0.03	93.24	93.31	93.30	93.33	0.018452	0.50	0.05	1.17	0.74
River 1	Reach 1-Upper	698	10YrCHI3Hr	0.03	93.24	93.31	93.31	93.33	0.031221	0.63	0.05	1.15	0.95
River 1	Reach 1-Upper	698	25YrCHI3Hr	0.04	93.24	93.38	93.31	93.38	0.002185	0.26	0.15	1.67	0.28
River 1	Reach 1-Upper	698	50YrCHI3Hr	0.04	93.24	93.51	93.32	93.51	0.000131	0.11	0.41	2.59	0.08
River 1	Reach 1-Upper	698	100YrCHI3Hr	0.05	93.24	93.51	93.32	93.51	0.000158	0.12	0.41	2.80	0.09
River 1	Reach 1-Upper	698	2YrSCS24Hr	0.02	93.24	93.31	93.30	93.32	0.016098	0.46	0.05	1.16	0.69
River 1	Reach 1-Upper	698	5YrSCS24Hr	0.03	93.24	93.31	93.31	93.33	0.033358	0.64	0.05	1.14	0.98
River 1	Reach 1-Upper	698	10YrSCS24Hr	0.04	93.24	93.41	93.31	93.41	0.000895	0.19	0.20	1.89	0.19
River 1	Reach 1-Upper	698	25YrSCS24Hr	0.04	93.24	93.51	93.32	93.51	0.000135	0.11	0.41	2.59	0.08
River 1	Reach 1-Upper	698	50YrSCS24Hr	0.05	93.24	93.51	93.32	93.51	0.000162	0.12	0.41	2.61	0.09
River 1	Reach 1-Upper	698	100YrSCS24Hr	0.06	93.24	93.51	93.33	93.52	0.000196	0.13	0.42	2.63	0.10
River 1	Reach 1-Upper	681	2YrCHI3Hr	0.02	93.14	93.22	93.19	93.22	0.003726	0.23	0.08	1.65	0.34
River 1	Reach 1-Upper	681	5YrCHI3Hr	0.03	93.14	93.24	93.20	93.25	0.001985	0.21	0.13	1.84	0.26
River 1	Reach 1-Upper	681	10YrCHI3Hr	0.03	93.14	93.27	93.20	93.27	0.001148	0.19	0.17	2.00	0.20
River 1	Reach 1-Upper	681	25YrCHI3Hr	0.04	93.14	93.37	93.20	93.37	0.000121	0.09	0.42	2.75	0.07
River 1	Reach 1-Upper	681	50YrCHI3Hr	0.04	93.14	93.51	93.21	93.51	0.000021	0.05	0.87	4.05	0.03
River 1	Reach 1-Upper	681	100YrCHI3Hr	0.05	93.14	93.51	93.21	93.51	0.000026	0.06	0.88	4.08	0.04
River 1	Reach 1-Upper	681	2YrSCS24Hr	0.02	93.14	93.24	93.19	93.24	0.002292	0.21	0.11	1.78	0.27
River 1	Reach 1-Upper	681	5YrSCS24Hr	0.03	93.14	93.28	93.20	93.28	0.000837	0.17	0.19	2.07	0.18
River 1	Reach 1-Upper	681	10YrSCS24Hr	0.04	93.14	93.41	93.20	93.41	0.000070	0.07	0.52	2.97	0.06
River 1	Reach 1-Upper	681	25YrSCS24Hr	0.04	93.14	93.51	93.21	93.51	0.000022	0.05	0.87	4.07	0.03
River 1	Reach 1-Upper	681	50YrSCS24Hr	0.05	93.14	93.51	93.21	93.51	0.000027	0.06	0.88	4.09	0.04
River 1	Reach 1-Upper	681	100YrSCS24Hr	0.06	93.14	93.51	93.22	93.51	0.000032	0.06	0.89	4.13	0.04
River 1	Reach 1-Upper	663	2YrCHI3Hr	0.02	93.05	93.19		93.19	0.000887	0.16	0.12	1.35	0.18
River 1	Reach 1-Upper	663	5YrCHI3Hr	0.03	93.05	93.22		93.23	0.000652	0.16	0.17	1.60	0.16
River 1	Reach 1-Upper	663	10YrCHI3Hr	0.03	93.05	93.25		93.26	0.000453	0.15	0.22	1.81	0.13
River 1	Reach 1-Upper	663	25YrCHI3Hr	0.04	93.05	93.37		93.37	0.000079	0.08	0.48	2.88	0.06
River 1	Reach 1-Upper	663	50YrCHI3Hr	0.04	93.05	93.51		93.51	0.000018	0.05	0.96	4.41	0.03
River 1	Reach 1-Upper	663	100YrCHI3Hr	0.05	93.05	93.51		93.51	0.000022	0.05	0.96	4.44	0.03
River 1	Reach 1-Upper	663	2YrSCS24Hr	0.02	93.05	93.22		93.22	0.000662	0.16	0.15	1.54	0.16
River 1	Reach 1-Upper	663	5YrSCS24Hr	0.03	93.05	93.27		93.27	0.000342	0.13	0.24	1.90	0.12
River 1	Reach 1-Upper	663	10YrSCS24Hr	0.04	93.05	93.40		93.40	0.000052	0.07	0.57	3.04	0.05
River 1	Reach 1-Upper	663	25YrSCS24Hr	0.04	93.05	93.51		93.51	0.000019	0.05	0.96	4.42	0.03
River 1	Reach 1-Upper	663	50YrSCS24Hr	0.05	93.05	93.51		93.51	0.000023	0.05	0.97	4.46	0.03
River 1	Reach 1-Upper	663	100YrSCS24Hr	0.06	93.05	93.51		93.51	0.000028	0.06	0.98	4.50	0.04
River 1	Reach 1-Upper	656	2YrCHI3Hr	0.06	93.03	93.15	93.12	93.16	0.007897	0.46	0.13	1.69	0.53
River 1	Reach 1-Upper	656	5YrCHI3Hr	0.10	93.03	93.19	93.14	93.20	0.006746	0.51	0.20	1.91	0.51
River 1	Reach 1-Upper	656	10YrCHI3Hr	0.13	93.03	93.23	93.16	93.24	0.004432	0.48	0.28	2.13	0.43
River 1	Reach 1-Upper	656	25YrCHI3Hr	0.17	93.03	93.36	93.18	93.37	0.000771	0.28	0.62	2.88	0.19
River 1	Reach 1-Upper	656	50YrCHI3Hr	0.21	93.03	93.51	93.19	93.51	0.000193	0.19	1.16	4.64	0.10
River 1	Reach 1-Upper	656	100YrCHI3Hr	0.24	93.03	93.51	93.20	93.51	0.000260	0.22	1.17	4.65	0.12
River 1	Reach 1-Upper	656	2YrSCS24Hr	0.09	93.03	93.18	93.14	93.19	0.007161	0.50	0.18	1.86	0.52
River 1	Reach 1-Upper	656	5YrSCS24Hr	0.14	93.03	93.24	93.17	93.25	0.003570	0.45	0.31	2.22	0.39
River 1	Reach 1-Upper	656	10YrSCS24Hr	0.18	93.03	93.40	93.18	93.40	0.000519	0.25	0.73	3.49	0.16
River 1	Reach 1-Upper	656	25YrSCS24Hr	0.22	93.03	93.51	93.20	93.51	0.000230	0.21	1.16	4.65	0.11
River 1	Reach 1-Upper	656	50YrSCS24Hr	0.26	93.03	93.51	93.21	93.51	0.000307	0.24	1.17	4.66	0.13
River 1	Reach 1-Upper	656	100YrSCS24Hr	0.30	93.03	93.51	93.22	93.51	0.000404	0.28	1.17	4.67	0.15
River 1	Reach 1-Upper	638	2YrCHI3Hr	0.06	92.92	93.08	93.01	93.08	0.002811	0.33	0.19	1.85	0.33
River 1	Reach 1-Upper	638	5YrCHI3Hr	0.10	92.92	93.14	93.04	93.14	0.001935	0.33	0.31	2.24	0.28
River 1	Reach 1-Upper	638	10YrCHI3Hr	0.13	92.92	93.20	93.05	93.20	0.001110	0.29	0.46	2.70	0.22
River 1	Reach 1-Upper	638	25YrCHI3Hr	0.17	92.92	93.36	93.07	93.36	0.000206	0.17	1.05	4.59	0.10
River 1	Reach 1-Upper	638	50YrCHI3Hr	0.21	92.92	93.50	93.08	93.50	0.000072	0.13	1.86	6.83	0.06
River 1	Reach 1-Upper	638	100YrCHI3Hr	0.24	92.92	93.50	93.10	93.51	0.000098	0.15	1.86	6.83	0.08
River 1	Reach 1-Upper	638	2YrSCS24Hr	0.09	92.92	93.12	93.03	93.12	0.002263	0.34	0.27	2.12	0.30
River 1	Reach 1-Upper	638	5YrSCS24Hr	0.14	92.92	93.22	93.06	93.22	0.000920	0.27	0.52	2.92	0.20
River 1	Reach 1-Upper	638	10YrSCS24Hr	0.18	92.92	93.40	93.07	93.40	0.000148	0.16	1.22	5.04	0.09
River 1	Reach 1-Upper	638	25YrSCS24Hr	0.22	92.92	93.50	93.09	93.51	0.000086	0.14	1.86	6.83	0.07
River 1	Reach 1-Upper	638	50YrSCS24Hr	0.26	92.92	93.50	93.10	93.51	0.000115	0.16	1.86	6.84	0.08
River 1	Reach 1-Upper	638	100YrSCS24Hr	0.30	92.92	93.50	93.12	93.51	0.000153	0.19	1.87	6.84	0.09
River 1	Reach 1-Upper	617	2YrCHI3Hr	0.06	92.84	93.02	92.95	93.02	0.002976	0.32	0.19	2.05	0.33
River 1	Reach 1-Upper	617	5YrCHI3Hr	0.10	92.84	93.11	92.98	93.11	0.000952	0.24	0.43	2.97	0.20
River 1	Reach 1-Upper	617	10YrCHI3Hr	0.13	92.84	93.18	92.99	93.19	0.000468	0.20	0.68	3.73	0.15
River 1	Reach 1-Upper	617	25YrCHI3Hr	0.17	92.84	93.36	93.01	93.36	0.000105	0.11	1.56	6.63	0.07
River 1	Reach 1-Upper	617	50YrCHI3Hr	0.21	92.84	93.50	93.02	93.50	0.000032	0.07	2.93	15.16	0.04
River 1	Reach 1-Upper	617	100YrCHI3Hr	0.24	92.84	93.50	93.04	93.50	0.000044	0.09	2.93	15.17	0.05
River 1	Reach 1-Upper	617	2YrSCS24Hr	0.09	92.84	93.08	92.97	93.09	0.001249	0.26	0.35	2.72	0.23
River 1	Reach 1-Upper	617	5YrSCS24Hr	0.14	92.84	93.21	93.00	93.21	0.000388	0.18	0.77	4.08	0.13
River 1	Reach 1-Upper	617	10YrSCS24Hr	0.18	92.84	93.39	93.01	93.39	0.000079	0.10	1.82	7.56	0.06
River 1	Reach 1-Upper	617	25YrSCS24Hr	0.22	92.84	93.50	93.03	93.50	0.000039	0.08	2.93	15.17	0.05
River 1	Reach 1-Upper	617	50YrSCS24Hr	0.26	92.84	93.50	93.04	93.50	0.000052	0.09	2.93	15.17	0.05
River 1	Reach 1-Upper	617	100YrSCS24Hr	0.30	92.84	93.50	93.05	93.50	0.000069	0.11	2.93	15.18	0.06
River 1	Reach 1-Upper	598	2YrCHI3Hr	0.06	92.76	93.00	92.86	93.00	0.000514	0.18	0.36	2.60	0.15
River 1	Reach 1-Upper	598	5YrCHI3Hr	0.11	92.76	93.10	92.89	93.10	0.000269	0.18	0.61	3.40	0.12
River 1	Reach 1-Upper	598	10YrCHI3Hr	0.14	92.76	93.18	92.91	93.18	0.000181	0.18	0.80	5.32	0.10

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	598	25YrCHI3Hr	0.19	92.76	93.36	92.92	93.36	0.000070	0.15	1.25	8.76	0.07
River 1	Reach 1-Upper	598	50YrCHI3Hr	0.22	92.76	93.50	92.94	93.50	0.000018	0.07	4.94	31.21	0.03
River 1	Reach 1-Upper	598	100YrCHI3Hr	0.26	92.76	93.50	92.95	93.50	0.000024	0.09	4.94	31.21	0.04
River 1	Reach 1-Upper	598	2YrSCS24Hr	0.10	92.76	93.07	92.88	93.08	0.000317	0.18	0.54	3.19	0.12
River 1	Reach 1-Upper	598	5YrSCS24Hr	0.15	92.76	93.20	92.91	93.21	0.000160	0.17	0.87	5.82	0.10
River 1	Reach 1-Upper	598	10YrSCS24Hr	0.19	92.76	93.39	92.93	93.39	0.000059	0.14	1.34	9.49	0.06
River 1	Reach 1-Upper	598	25YrSCS24Hr	0.24	92.76	93.50	92.94	93.50	0.000021	0.08	4.94	31.21	0.04
River 1	Reach 1-Upper	598	50YrSCS24Hr	0.28	92.76	93.50	92.96	93.50	0.000029	0.09	4.93	31.21	0.04
River 1	Reach 1-Upper	598	100YrSCS24Hr	0.33	92.76	93.50	92.97	93.50	0.000039	0.11	4.93	31.21	0.05
River 1	Reach 1-Upper	589		Culvert									
River 1	Reach 1-Upper	581	2YrCHI3Hr	0.06	92.71	92.89	92.81	92.89	0.002034	0.27	0.24	2.66	0.28
River 1	Reach 1-Upper	581	5YrCHI3Hr	0.11	92.71	92.93	92.84	92.93	0.001970	0.33	0.33	3.40	0.29
River 1	Reach 1-Upper	581	10YrCHI3Hr	0.14	92.71	92.96	92.86	92.97	0.001613	0.34	0.41	4.03	0.27
River 1	Reach 1-Upper	581	25YrCHI3Hr	0.19	92.71	93.02	92.88	93.03	0.000990	0.33	0.56	5.14	0.22
River 1	Reach 1-Upper	581	50YrCHI3Hr	0.22	92.71	93.13	92.89	93.13	0.000386	0.27	0.83	7.07	0.15
River 1	Reach 1-Upper	581	100YrCHI3Hr	0.26	92.71	93.25	92.90	93.25	0.000185	0.23	1.13	30.32	0.11
River 1	Reach 1-Upper	581	2YrSCS24Hr	0.10	92.71	92.92	92.84	92.92	0.002055	0.32	0.31	3.20	0.29
River 1	Reach 1-Upper	581	5YrSCS24Hr	0.15	92.71	92.97	92.86	92.98	0.001468	0.34	0.44	4.26	0.26
River 1	Reach 1-Upper	581	10YrSCS24Hr	0.19	92.71	93.03	92.88	93.04	0.000901	0.32	0.59	5.33	0.21
River 1	Reach 1-Upper	581	25YrSCS24Hr	0.24	92.71	93.24	92.89	93.24	0.000172	0.22	1.11	30.02	0.10
River 1	Reach 1-Upper	581	50YrSCS24Hr	0.28	92.71	93.25	92.90	93.25	0.000220	0.25	1.13	30.33	0.12
River 1	Reach 1-Upper	581	100YrSCS24Hr	0.33	92.71	93.25	92.91	93.25	0.000294	0.29	1.13	30.33	0.14
River 1	Reach 1-Upper	572	2YrCHI3Hr	0.06	92.73	92.85	92.82	92.86	0.008674	0.45	0.14	2.02	0.54
River 1	Reach 1-Upper	572	5YrCHI3Hr	0.11	92.73	92.90	92.84	92.90	0.004896	0.43	0.26	2.58	0.43
River 1	Reach 1-Upper	572	10YrCHI3Hr	0.14	92.73	92.94	92.86	92.95	0.002796	0.37	0.38	3.05	0.34
River 1	Reach 1-Upper	572	25YrCHI3Hr	0.19	92.73	93.01	92.87	93.01	0.001251	0.30	0.62	3.87	0.24
River 1	Reach 1-Upper	572	50YrCHI3Hr	0.22	92.73	93.12	92.88	93.12	0.000367	0.19	1.14	5.93	0.13
River 1	Reach 1-Upper	572	100YrCHI3Hr	0.26	92.73	93.25	92.90	93.25	0.000064	0.10	4.09	35.88	0.06
River 1	Reach 1-Upper	572	2YrSCS24Hr	0.10	92.73	92.88	92.84	92.89	0.005817	0.44	0.22	2.44	0.46
River 1	Reach 1-Upper	572	5YrSCS24Hr	0.15	92.73	92.95	92.86	92.96	0.002326	0.36	0.43	3.23	0.31
River 1	Reach 1-Upper	572	10YrSCS24Hr	0.19	92.73	93.02	92.88	93.03	0.001095	0.28	0.67	4.01	0.22
River 1	Reach 1-Upper	572	25YrSCS24Hr	0.24	92.73	93.24	92.89	93.24	0.000064	0.10	3.83	34.17	0.06
River 1	Reach 1-Upper	572	50YrSCS24Hr	0.28	92.73	93.25	92.90	93.25	0.000076	0.11	4.10	35.90	0.06
River 1	Reach 1-Upper	572	100YrSCS24Hr	0.33	92.73	93.25	92.92	93.25	0.000102	0.13	4.10	35.94	0.07
River 1	Reach 1-Upper	555	2YrCHI3Hr	0.06	92.61	92.81	92.71	92.81	0.000982	0.20	0.32	2.99	0.20
River 1	Reach 1-Upper	555	5YrCHI3Hr	0.11	92.61	92.87	92.74	92.87	0.000748	0.21	0.52	3.73	0.18
River 1	Reach 1-Upper	555	10YrCHI3Hr	0.14	92.61	92.92	92.75	92.93	0.000498	0.19	0.74	4.40	0.15
River 1	Reach 1-Upper	555	25YrCHI3Hr	0.19	92.61	93.00	92.77	93.00	0.000277	0.17	1.12	5.37	0.12
River 1	Reach 1-Upper	555	50YrCHI3Hr	0.22	92.61	93.12	92.78	93.12	0.000080	0.11	2.69	31.73	0.07
River 1	Reach 1-Upper	555	100YrCHI3Hr	0.26	92.61	93.25	92.79	93.25	0.000015	0.06	7.39	40.94	0.03
River 1	Reach 1-Upper	555	2YrSCS24Hr	0.10	92.61	92.85	92.73	92.86	0.000843	0.21	0.46	3.51	0.19
River 1	Reach 1-Upper	555	5YrSCS24Hr	0.15	92.61	92.94	92.76	92.94	0.000435	0.19	0.82	4.62	0.14
River 1	Reach 1-Upper	555	10YrSCS24Hr	0.19	92.61	93.02	92.77	93.02	0.000251	0.16	1.19	5.53	0.11
River 1	Reach 1-Upper	555	25YrSCS24Hr	0.24	92.61	93.24	92.79	93.24	0.000015	0.06	7.08	40.75	0.03
River 1	Reach 1-Upper	555	50YrSCS24Hr	0.28	92.61	93.25	92.80	93.25	0.000018	0.07	7.39	40.94	0.03
River 1	Reach 1-Upper	555	100YrSCS24Hr	0.33	92.61	93.25	92.81	93.25	0.000025	0.08	7.39	40.94	0.04
River 1	Reach 1-Upper	534	2YrCHI3Hr	0.06	92.59	92.79	92.69	92.79	0.001542	0.25	0.26	2.47	0.24
River 1	Reach 1-Upper	534	5YrCHI3Hr	0.11	92.59	92.85	92.72	92.86	0.001007	0.24	0.46	3.30	0.21
River 1	Reach 1-Upper	534	10YrCHI3Hr	0.14	92.59	92.91	92.74	92.92	0.000601	0.21	0.70	7.10	0.16
River 1	Reach 1-Upper	534	25YrCHI3Hr	0.19	92.59	93.00	92.76	93.00	0.000148	0.12	2.58	34.75	0.09
River 1	Reach 1-Upper	534	50YrCHI3Hr	0.22	92.59	93.12	92.77	93.12	0.000015	0.05	8.09	50.92	0.03
River 1	Reach 1-Upper	534	100YrCHI3Hr	0.26	92.59	93.25	92.78	93.25	0.000003	0.03	14.61	51.39	0.01
River 1	Reach 1-Upper	534	2YrSCS24Hr	0.10	92.59	92.83	92.71	92.84	0.001197	0.25	0.39	3.05	0.22
River 1	Reach 1-Upper	534	5YrSCS24Hr	0.15	92.59	92.93	92.74	92.93	0.000491	0.20	0.89	13.42	0.15
River 1	Reach 1-Upper	534	10YrSCS24Hr	0.19	92.59	93.01	92.76	93.01	0.000110	0.11	3.08	38.60	0.07
River 1	Reach 1-Upper	534	25YrSCS24Hr	0.24	92.59	93.24	92.78	93.24	0.000003	0.03	14.22	51.36	0.01
River 1	Reach 1-Upper	534	50YrSCS24Hr	0.28	92.59	93.25	92.79	93.25	0.000004	0.03	14.61	51.39	0.02
River 1	Reach 1-Upper	534	100YrSCS24Hr	0.33	92.59	93.25	92.80	93.25	0.000005	0.04	14.61	51.39	0.02
River 1	Reach 1-Upper	510	2YrCHI3Hr	0.06	92.60	92.72	92.68	92.73	0.004446	0.41	0.16	2.77	0.41
River 1	Reach 1-Upper	510	5YrCHI3Hr	0.11	92.60	92.82	92.70	92.83	0.001169	0.34	0.32	4.18	0.24
River 1	Reach 1-Upper	510	10YrCHI3Hr	0.14	92.60	92.89	92.71	92.90	0.000737	0.33	0.44	5.18	0.20
River 1	Reach 1-Upper	510	25YrCHI3Hr	0.19	92.60	92.99	92.73	92.99	0.000465	0.32	0.59	11.84	0.17
River 1	Reach 1-Upper	510	50YrCHI3Hr	0.22	92.60	93.11	92.75	93.12	0.000243	0.28	0.79	109.05	0.13
River 1	Reach 1-Upper	510	100YrCHI3Hr	0.26	92.60	93.25	92.76	93.25	0.000000	0.01	42.37	109.53	0.00
River 1	Reach 1-Upper	510	2YrSCS24Hr	0.10	92.60	92.80	92.69	92.80	0.001471	0.34	0.28	3.82	0.26
River 1	Reach 1-Upper	510	5YrSCS24Hr	0.15	92.60	92.91	92.72	92.92	0.000658	0.32	0.47	5.55	0.19
River 1	Reach 1-Upper	510	10YrSCS24Hr	0.19	92.60	93.00	92.73	93.01	0.000435	0.31	0.61	13.01	0.16
River 1	Reach 1-Upper	510	25YrSCS24Hr	0.24	92.60	93.24	92.75	93.24	0.000000	0.01	41.54	109.50	0.00
River 1	Reach 1-Upper	510	50YrSCS24Hr	0.28	92.60	93.25	92.77	93.25	0.000000	0.01	42.37	109.53	0.00
River 1	Reach 1-Upper	510	100YrSCS24Hr	0.33	92.60	93.25	92.78	93.25	0.000000	0.01	42.37	109.53	0.01
River 1	Reach 1-Upper	505		Culvert									
River 1	Reach 1-Upper	502	2YrCHI3Hr	0.07	92.49	92.61	92.57	92.62	0.007737	0.51	0.14	2.26	0.54
River 1	Reach 1-Upper	502	5YrCHI3Hr	0.12	92.49	92.65	92.60	92.67	0.006529	0.60	0.20	2.74	0.53
River 1	Reach 1-Upper	502	10YrCHI3Hr	0.16	92.49	92.67	92.62	92.70	0.006086	0.66	0.24	3.04	0.52
River 1	Reach 1-Upper	502	25YrCHI3Hr	0.21	92.49	92.72	92.64	92.74	0.004564	0.67	0.31	3.72	0.47
River 1	Reach 1-Upper	502	50YrCHI3Hr	0.25	92.49	92.80	92.65	92.82	0.002112	0.57	0.43	5.24	0.34
River 1	Reach 1-Upper	502	100YrCHI3Hr	0.29	92.49	92.93	92.67	92.94	0.000855	0.47	0.63	7.55	0.23
River 1	Reach 1-Upper	502	2YrSCS24Hr	0.11	92.49	92.64	92.59	92.65	0.006707	0.58	0.19	2.62	0.53
River 1	Reach 1-Upper	502	5YrSCS24Hr	0.17	92.49	92.68	92.62	92.71	0.005738	0.66	0.26	3.15	0.51
River 1	Reach 1-Upper	502	10YrSCS24Hr	0.22	92.49	92.73	92.64	92.75	0.004158	0.66	0.33	3.95	0.45
River 1	Reach 1-Upper	502	25YrSCS24Hr	0.27	92.49	92.87	92.66	92.88	0.001296	0.51	0.53	6.24	0.27
River 1	Reach 1-Upper	502	50YrSCS24Hr	0.32	92.49	93.03	92.68	93.04	0.000519	0.42	0.77	104.89	0.19

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	502	100YrSCS24Hr	0.37	92.49	93.23	92.70	93.24	0.000228	0.34	1.08	105.45	0.13
River 1	Reach 1-Upper	493	2YrCHI3Hr	0.07	92.34	92.61	92.42	92.61	0.000133	0.10	0.75	4.68	0.08
River 1	Reach 1-Upper	493	5YrCHI3Hr	0.12	92.34	92.65	92.45	92.65	0.000201	0.13	0.96	5.45	0.10
River 1	Reach 1-Upper	493	10YrCHI3Hr	0.16	92.34	92.68	92.46	92.68	0.000231	0.14	1.12	5.94	0.10
River 1	Reach 1-Upper	493	25YrCHI3Hr	0.21	92.34	92.73	92.47	92.73	0.000214	0.15	1.42	6.71	0.10
River 1	Reach 1-Upper	493	50YrCHI3Hr	0.25	92.34	92.81	92.49	92.81	0.000122	0.12	2.01	8.05	0.08
River 1	Reach 1-Upper	493	100YrCHI3Hr	0.29	92.34	92.94	92.50	92.94	0.000003	0.02	22.75	101.14	0.01
River 1	Reach 1-Upper	493	2YrSCS24Hr	0.11	92.34	92.64	92.44	92.64	0.000184	0.12	0.90	5.25	0.09
River 1	Reach 1-Upper	493	5YrSCS24Hr	0.17	92.34	92.69	92.46	92.69	0.000232	0.14	1.18	6.13	0.11
River 1	Reach 1-Upper	493	10YrSCS24Hr	0.22	92.34	92.74	92.48	92.74	0.000200	0.15	1.49	6.81	0.10
River 1	Reach 1-Upper	493	25YrSCS24Hr	0.27	92.34	92.87	92.49	92.87	0.000073	0.11	2.58	9.70	0.06
River 1	Reach 1-Upper	493	50YrSCS24Hr	0.32	92.34	93.03	92.51	93.03	0.000001	0.02	32.27	101.55	0.01
River 1	Reach 1-Upper	493	100YrSCS24Hr	0.37	92.34	93.23	92.52	93.23	0.000000	0.01	52.95	102.61	0.00
River 1	Reach 1-Upper	474	2YrCHI3Hr	0.07	92.41	92.60	92.50	92.60	0.000597	0.15	0.49	5.07	0.15
River 1	Reach 1-Upper	474	5YrCHI3Hr	0.12	92.41	92.64	92.53	92.65	0.000602	0.17	0.72	5.95	0.16
River 1	Reach 1-Upper	474	10YrCHI3Hr	0.16	92.41	92.67	92.54	92.67	0.000568	0.18	0.89	6.54	0.16
River 1	Reach 1-Upper	474	25YrCHI3Hr	0.21	92.41	92.72	92.55	92.72	0.000404	0.17	1.23	7.58	0.13
River 1	Reach 1-Upper	474	50YrCHI3Hr	0.25	92.41	92.81	92.56	92.81	0.000152	0.13	1.98	11.32	0.09
River 1	Reach 1-Upper	474	100YrCHI3Hr	0.29	92.41	92.94	92.57	92.94	0.000001	0.01	34.63	91.93	0.01
River 1	Reach 1-Upper	474	2YrSCS24Hr	0.11	92.41	92.63	92.52	92.64	0.000604	0.16	0.66	5.73	0.16
River 1	Reach 1-Upper	474	5YrSCS24Hr	0.17	92.41	92.68	92.54	92.68	0.000532	0.18	0.96	6.77	0.15
River 1	Reach 1-Upper	474	10YrSCS24Hr	0.22	92.41	92.73	92.56	92.73	0.000363	0.16	1.31	7.81	0.13
River 1	Reach 1-Upper	474	25YrSCS24Hr	0.27	92.41	92.87	92.57	92.87	0.000001	0.01	28.89	91.64	0.01
River 1	Reach 1-Upper	474	50YrSCS24Hr	0.32	92.41	93.03	92.58	93.03	0.000000	0.01	43.29	92.35	0.00
River 1	Reach 1-Upper	474	100YrSCS24Hr	0.37	92.41	93.23	92.59	93.23	0.000000	0.01	62.09	93.27	0.00
River 1	Reach 1-Upper	454	2YrCHI3Hr	0.07	92.44	92.58	92.51	92.59	0.001604	0.25	0.29	2.89	0.25
River 1	Reach 1-Upper	454	5YrCHI3Hr	0.12	92.44	92.62	92.53	92.63	0.001687	0.29	0.42	3.32	0.26
River 1	Reach 1-Upper	454	10YrCHI3Hr	0.16	92.44	92.65	92.54	92.66	0.001610	0.31	0.51	3.61	0.26
River 1	Reach 1-Upper	454	25YrCHI3Hr	0.21	92.44	92.70	92.56	92.71	0.001084	0.29	0.72	4.18	0.22
River 1	Reach 1-Upper	454	50YrCHI3Hr	0.25	92.44	92.80	92.57	92.80	0.000421	0.22	1.17	5.42	0.14
River 1	Reach 1-Upper	454	100YrCHI3Hr	0.29	92.44	92.94	92.58	92.94	0.000003	0.02	20.32	83.17	0.01
River 1	Reach 1-Upper	454	2YrSCS24Hr	0.11	92.44	92.61	92.52	92.62	0.001708	0.28	0.38	3.20	0.26
River 1	Reach 1-Upper	454	5YrSCS24Hr	0.17	92.44	92.66	92.55	92.67	0.001485	0.31	0.56	3.74	0.25
River 1	Reach 1-Upper	454	10YrSCS24Hr	0.22	92.44	92.72	92.56	92.72	0.000949	0.28	0.77	4.30	0.21
River 1	Reach 1-Upper	454	25YrSCS24Hr	0.27	92.44	92.87	92.58	92.87	0.000007	0.03	15.12	82.99	0.02
River 1	Reach 1-Upper	454	50YrSCS24Hr	0.32	92.44	93.03	92.59	93.03	0.000001	0.02	28.15	83.46	0.01
River 1	Reach 1-Upper	454	100YrSCS24Hr	0.37	92.44	93.23	92.60	93.23	0.000000	0.01	45.11	84.07	0.01
River 1	Reach 1-Upper	434	2YrCHI3Hr	0.07	92.42	92.54	92.49	92.54	0.003131	0.30	0.24	2.93	0.33
River 1	Reach 1-Upper	434	5YrCHI3Hr	0.12	92.42	92.58	92.51	92.59	0.002184	0.32	0.39	3.35	0.30
River 1	Reach 1-Upper	434	10YrCHI3Hr	0.16	92.42	92.62	92.52	92.62	0.001749	0.32	0.50	3.64	0.27
River 1	Reach 1-Upper	434	25YrCHI3Hr	0.21	92.42	92.70	92.53	92.70	0.000136	0.10	3.47	39.92	0.08
River 1	Reach 1-Upper	434	50YrCHI3Hr	0.25	92.42	92.80	92.55	92.80	0.000022	0.05	9.17	73.84	0.03
River 1	Reach 1-Upper	434	100YrCHI3Hr	0.29	92.42	92.94	92.56	92.94	0.000003	0.03	19.34	74.32	0.01
River 1	Reach 1-Upper	434	2YrSCS24Hr	0.11	92.42	92.57	92.50	92.57	0.002416	0.31	0.34	3.23	0.31
River 1	Reach 1-Upper	434	5YrSCS24Hr	0.17	92.42	92.63	92.52	92.64	0.001606	0.31	0.56	4.00	0.26
River 1	Reach 1-Upper	434	10YrSCS24Hr	0.22	92.42	92.71	92.54	92.71	0.000108	0.09	4.02	43.59	0.07
River 1	Reach 1-Upper	434	25YrSCS24Hr	0.27	92.42	92.87	92.55	92.87	0.000006	0.03	14.69	74.10	0.02
River 1	Reach 1-Upper	434	50YrSCS24Hr	0.32	92.42	93.03	92.56	93.03	0.000001	0.02	26.34	74.64	0.01
River 1	Reach 1-Upper	434	100YrSCS24Hr	0.37	92.42	93.23	92.57	93.23	0.000000	0.01	41.53	75.37	0.01
River 1	Reach 1-Upper	416	2YrCHI3Hr	0.07	92.34	92.52	92.42	92.52	0.000594	0.15	0.47	4.81	0.15
River 1	Reach 1-Upper	416	5YrCHI3Hr	0.12	92.34	92.57	92.45	92.57	0.000421	0.17	0.75	5.85	0.14
River 1	Reach 1-Upper	416	10YrCHI3Hr	0.16	92.34	92.61	92.46	92.61	0.000169	0.13	2.17	28.54	0.09
River 1	Reach 1-Upper	416	25YrCHI3Hr	0.21	92.34	92.70	92.47	92.70	0.000038	0.08	4.95	34.66	0.05
River 1	Reach 1-Upper	416	50YrCHI3Hr	0.25	92.34	92.80	92.48	92.80	0.000012	0.05	8.86	43.80	0.03
River 1	Reach 1-Upper	416	100YrCHI3Hr	0.29	92.34	92.94	92.49	92.94	0.000004	0.04	16.28	66.50	0.02
River 1	Reach 1-Upper	416	2YrSCS24Hr	0.11	92.34	92.56	92.44	92.56	0.000460	0.17	0.67	5.57	0.14
River 1	Reach 1-Upper	416	5YrSCS24Hr	0.17	92.34	92.63	92.46	92.63	0.000124	0.11	2.65	29.68	0.08
River 1	Reach 1-Upper	416	10YrSCS24Hr	0.22	92.34	92.71	92.47	92.71	0.000032	0.07	5.42	35.57	0.04
River 1	Reach 1-Upper	416	25YrSCS24Hr	0.27	92.34	92.87	92.49	92.87	0.000006	0.04	12.48	53.40	0.02
River 1	Reach 1-Upper	416	50YrSCS24Hr	0.32	92.34	93.03	92.49	93.03	0.000002	0.03	22.58	67.08	0.01
River 1	Reach 1-Upper	416	100YrSCS24Hr	0.37	92.34	93.23	92.50	93.23	0.000001	0.02	36.24	67.81	0.01
River 1	Reach 1-Upper	398	2YrCHI3Hr	0.07	92.28	92.50	92.40	92.51	0.000938	0.22	0.33	2.54	0.20
River 1	Reach 1-Upper	398	5YrCHI3Hr	0.12	92.28	92.56	92.42	92.56	0.000913	0.26	0.48	2.86	0.20
River 1	Reach 1-Upper	398	10YrCHI3Hr	0.16	92.28	92.60	92.44	92.61	0.000764	0.26	0.61	3.13	0.19
River 1	Reach 1-Upper	398	25YrCHI3Hr	0.21	92.28	92.70	92.46	92.70	0.000401	0.23	0.93	4.03	0.14
River 1	Reach 1-Upper	398	50YrCHI3Hr	0.25	92.28	92.80	92.47	92.80	0.000150	0.16	2.51	35.14	0.09
River 1	Reach 1-Upper	398	100YrCHI3Hr	0.29	92.28	92.94	92.48	92.94	0.000018	0.07	9.30	58.44	0.03
River 1	Reach 1-Upper	398	2YrSCS24Hr	0.11	92.28	92.54	92.42	92.55	0.000934	0.25	0.43	2.78	0.20
River 1	Reach 1-Upper	398	5YrSCS24Hr	0.17	92.28	92.62	92.44	92.62	0.000689	0.26	0.67	3.24	0.18
River 1	Reach 1-Upper	398	10YrSCS24Hr	0.22	92.28	92.71	92.46	92.71	0.000365	0.22	0.99	4.50	0.14
River 1	Reach 1-Upper	398	25YrSCS24Hr	0.27	92.28	92.87	92.48	92.87	0.000042	0.10	5.90	48.09	0.05
River 1	Reach 1-Upper	398	50YrSCS24Hr	0.32	92.28	93.03	92.49	93.03	0.000006	0.04	14.82	58.71	0.02
River 1	Reach 1-Upper	398	100YrSCS24Hr	0.37	92.28	93.23	92.50	93.23	0.000001	0.02	26.77	59.29	0.01
River 1	Reach 1-Upper	383	2YrCHI3Hr	0.07	92.34	92.47	92.42	92.48	0.004360	0.39	0.19	1.94	0.40
River 1	Reach 1-Upper	383	5YrCHI3Hr	0.12	92.34	92.53	92.45	92.54	0.002848	0.39	0.31	2.30	0.34
River 1	Reach 1-Upper	383	10YrCHI3Hr	0.16	92.34	92.58	92.46	92.59	0.001793	0.36	0.44	2.60	0.28
River 1	Reach 1-Upper	383	25YrCHI3Hr	0.21	92.34	92.69	92.48	92.69	0.000720	0.28	0.74	3.18	0.19
River 1	Reach 1-Upper	383	50YrCHI3Hr	0.25	92.34	92.79	92.50	92.80	0.000334	0.22	1.11	3.78	0.13
River 1	Reach 1-Upper	383	100YrCHI3Hr	0.29	92.34	92.93	92.51	92.94	0.000138	0.17	1.71	4.83	0.09
River 1	Reach 1-Upper	383	2YrSCS24Hr	0.11	92.34	92.51	92.44	92.52	0.003235	0.40	0.27	2.21	0.36
River 1	Reach 1-Upper	383	5YrSCS24Hr	0.17	92.34	92.60	92.47	92.61	0.001493	0.35	0.49	2.71	0.26
River 1	Reach 1-Upper	383	10YrSCS24Hr	0.22	92.34	92.70	92.49	92.70	0.000650	0.28	0.78	3.26	0.18
River 1	Reach 1-Upper	383	25YrSCS24Hr	0.27	92.34	92.87	92.51	92.87	0.000205	0.19	1.42	4.21	0.11

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	383	50YrSCS24Hr	0.32	92.34	93.03	92.52	93.03	0.000013	0.06	10.49	51.62	0.03
River 1	Reach 1-Upper	383	100YrSCS24Hr	0.37	92.34	93.23	92.53	93.23	0.000002	0.03	21.02	52.21	0.01
River 1	Reach 1-Upper	364	2YrCHI3Hr	0.07	92.23	92.43	92.33	92.44	0.001347	0.27	0.27	2.04	0.23
River 1	Reach 1-Upper	364	5YrCHI3Hr	0.12	92.23	92.50	92.36	92.51	0.001091	0.29	0.42	2.38	0.22
River 1	Reach 1-Upper	364	10YrCHI3Hr	0.16	92.23	92.56	92.38	92.57	0.000757	0.28	0.58	2.68	0.19
River 1	Reach 1-Upper	364	25YrCHI3Hr	0.21	92.23	92.68	92.40	92.68	0.000366	0.23	0.92	3.24	0.14
River 1	Reach 1-Upper	364	50YrCHI3Hr	0.25	92.23	92.79	92.41	92.79	0.000203	0.19	1.31	3.88	0.11
River 1	Reach 1-Upper	364	100YrCHI3Hr	0.29	92.23	92.93	92.43	92.93	0.000094	0.15	1.98	5.87	0.07
River 1	Reach 1-Upper	364	2YrSCS24Hr	0.11	92.23	92.48	92.35	92.49	0.001191	0.29	0.37	2.28	0.23
River 1	Reach 1-Upper	364	5YrSCS24Hr	0.17	92.23	92.59	92.38	92.59	0.000655	0.27	0.64	2.80	0.18
River 1	Reach 1-Upper	364	10YrSCS24Hr	0.22	92.23	92.69	92.40	92.70	0.000339	0.22	0.97	3.32	0.13
River 1	Reach 1-Upper	364	25YrSCS24Hr	0.27	92.23	92.87	92.42	92.87	0.000135	0.17	1.64	4.67	0.09
River 1	Reach 1-Upper	364	50YrSCS24Hr	0.32	92.23	93.03	92.44	93.03	0.000032	0.10	6.11	44.02	0.04
River 1	Reach 1-Upper	364	100YrSCS24Hr	0.37	92.23	93.23	92.45	93.23	0.000005	0.04	15.12	44.59	0.02
River 1	Reach 1-Upper	347	2YrCHI3Hr	0.07	92.26	92.41	92.33	92.41	0.001311	0.25	0.29	2.48	0.23
River 1	Reach 1-Upper	347	5YrCHI3Hr	0.12	92.26	92.49	92.35	92.49	0.000799	0.25	0.49	2.81	0.19
River 1	Reach 1-Upper	347	10YrCHI3Hr	0.16	92.26	92.55	92.37	92.56	0.000501	0.23	0.69	3.10	0.16
River 1	Reach 1-Upper	347	25YrCHI3Hr	0.21	92.26	92.67	92.38	92.68	0.000235	0.19	1.09	3.61	0.11
River 1	Reach 1-Upper	347	50YrCHI3Hr	0.25	92.26	92.79	92.39	92.79	0.000131	0.16	1.52	4.09	0.09
River 1	Reach 1-Upper	347	100YrCHI3Hr	0.29	92.26	92.93	92.41	92.93	0.000067	0.13	2.17	5.17	0.06
River 1	Reach 1-Upper	347	2YrSCS24Hr	0.11	92.26	92.46	92.34	92.47	0.000924	0.25	0.43	2.71	0.20
River 1	Reach 1-Upper	347	5YrSCS24Hr	0.17	92.26	92.58	92.37	92.58	0.000426	0.22	0.77	3.20	0.14
River 1	Reach 1-Upper	347	10YrSCS24Hr	0.22	92.26	92.69	92.38	92.69	0.000218	0.19	1.15	3.67	0.11
River 1	Reach 1-Upper	347	25YrSCS24Hr	0.27	92.26	92.87	92.40	92.87	0.000091	0.15	1.87	4.46	0.07
River 1	Reach 1-Upper	347	50YrSCS24Hr	0.32	92.26	93.03	92.41	93.03	0.000041	0.12	2.88	10.67	0.05
River 1	Reach 1-Upper	347	100YrSCS24Hr	0.37	92.26	93.23	92.43	93.23	0.000008	0.06	10.68	37.82	0.02
River 1	Reach 1-Upper	328	2YrCHI3Hr	0.07	92.20	92.38	92.29	92.38	0.001752	0.30	0.24	1.87	0.27
River 1	Reach 1-Upper	328	5YrCHI3Hr	0.12	92.20	92.47	92.32	92.47	0.001008	0.29	0.42	2.25	0.21
River 1	Reach 1-Upper	328	10YrCHI3Hr	0.16	92.20	92.54	92.33	92.55	0.000632	0.26	0.60	2.56	0.17
River 1	Reach 1-Upper	328	25YrCHI3Hr	0.21	92.20	92.67	92.36	92.67	0.000304	0.22	0.95	3.08	0.13
River 1	Reach 1-Upper	328	50YrCHI3Hr	0.25	92.20	92.78	92.37	92.78	0.000178	0.19	1.34	3.69	0.10
River 1	Reach 1-Upper	328	100YrCHI3Hr	0.29	92.20	92.93	92.39	92.93	0.000093	0.15	1.96	4.66	0.07
River 1	Reach 1-Upper	328	2YrSCS24Hr	0.11	92.20	92.44	92.31	92.45	0.001172	0.29	0.37	2.14	0.23
River 1	Reach 1-Upper	328	5YrSCS24Hr	0.17	92.20	92.57	92.34	92.57	0.000541	0.26	0.67	2.67	0.16
River 1	Reach 1-Upper	328	10YrSCS24Hr	0.22	92.20	92.68	92.36	92.69	0.000283	0.22	1.00	3.14	0.12
River 1	Reach 1-Upper	328	25YrSCS24Hr	0.27	92.20	92.86	92.38	92.87	0.000127	0.16	1.67	4.31	0.08
River 1	Reach 1-Upper	328	50YrSCS24Hr	0.32	92.20	93.03	92.40	93.03	0.000063	0.13	2.46	5.51	0.06
River 1	Reach 1-Upper	328	100YrSCS24Hr	0.37	92.20	93.23	92.41	93.23	0.000014	0.07	8.02	29.79	0.03
River 1	Reach 1-Upper	306	2YrCHI3Hr	0.07	92.07	92.36	92.19	92.36	0.000723	0.26	0.28	1.53	0.18
River 1	Reach 1-Upper	306	5YrCHI3Hr	0.12	92.07	92.45	92.22	92.45	0.000687	0.30	0.40	1.84	0.18
River 1	Reach 1-Upper	306	10YrCHI3Hr	0.16	92.07	92.53	92.25	92.53	0.000563	0.31	0.52	2.11	0.17
River 1	Reach 1-Upper	306	25YrCHI3Hr	0.21	92.07	92.66	92.27	92.66	0.000340	0.29	0.71	2.60	0.14
River 1	Reach 1-Upper	306	50YrCHI3Hr	0.25	92.07	92.78	92.29	92.78	0.000232	0.28	0.89	3.10	0.12
River 1	Reach 1-Upper	306	100YrCHI3Hr	0.29	92.07	92.92	92.31	92.93	0.000151	0.26	1.11	3.98	0.10
River 1	Reach 1-Upper	306	2YrSCS24Hr	0.11	92.07	92.42	92.22	92.43	0.000711	0.29	0.37	1.75	0.18
River 1	Reach 1-Upper	306	5YrSCS24Hr	0.17	92.07	92.56	92.26	92.56	0.000514	0.31	0.56	2.21	0.16
River 1	Reach 1-Upper	306	10YrSCS24Hr	0.22	92.07	92.67	92.28	92.68	0.000325	0.29	0.74	2.67	0.13
River 1	Reach 1-Upper	306	25YrSCS24Hr	0.27	92.07	92.86	92.31	92.86	0.000182	0.27	1.01	3.45	0.11
River 1	Reach 1-Upper	306	50YrSCS24Hr	0.32	92.07	93.02	92.32	93.03	0.000120	0.25	1.26	4.87	0.09
River 1	Reach 1-Upper	306	100YrSCS24Hr	0.37	92.07	93.23	92.34	93.23	0.000077	0.24	1.57	20.82	0.07
River 1	Reach 1-Upper	300		Culvert									
River 1	Reach 1-Upper	294	2YrCHI3Hr	0.07	92.15	92.32	92.23	92.33	0.001574	0.32	0.23	2.11	0.26
River 1	Reach 1-Upper	294	5YrCHI3Hr	0.12	92.15	92.37	92.26	92.38	0.001843	0.41	0.30	2.35	0.30
River 1	Reach 1-Upper	294	10YrCHI3Hr	0.16	92.15	92.39	92.28	92.40	0.002112	0.48	0.33	2.47	0.32
River 1	Reach 1-Upper	294	25YrCHI3Hr	0.21	92.15	92.42	92.30	92.44	0.002418	0.56	0.38	2.62	0.35
River 1	Reach 1-Upper	294	50YrCHI3Hr	0.25	92.15	92.44	92.31	92.46	0.002632	0.61	0.41	2.73	0.37
River 1	Reach 1-Upper	294	100YrCHI3Hr	0.29	92.15	92.46	92.33	92.49	0.002788	0.66	0.44	2.84	0.39
River 1	Reach 1-Upper	294	2YrSCS24Hr	0.11	92.15	92.36	92.25	92.36	0.001772	0.39	0.28	2.29	0.29
River 1	Reach 1-Upper	294	5YrSCS24Hr	0.17	92.15	92.40	92.28	92.41	0.002190	0.50	0.34	2.51	0.33
River 1	Reach 1-Upper	294	10YrSCS24Hr	0.22	92.15	92.42	92.30	92.44	0.002481	0.57	0.38	2.64	0.36
River 1	Reach 1-Upper	294	25YrSCS24Hr	0.27	92.15	92.45	92.32	92.48	0.002750	0.64	0.43	2.79	0.39
River 1	Reach 1-Upper	294	50YrSCS24Hr	0.32	92.15	92.48	92.34	92.50	0.002931	0.70	0.46	2.91	0.40
River 1	Reach 1-Upper	294	100YrSCS24Hr	0.37	92.15	92.50	92.35	92.53	0.003160	0.76	0.49	3.01	0.42
River 1	Reach 1-Upper	279	2YrCHI3Hr	0.09	92.08	92.21	92.21	92.25	0.030968	0.83	0.10	1.54	1.01
River 1	Reach 1-Upper	279	5YrCHI3Hr	0.15	92.08	92.25	92.24	92.29	0.025757	0.90	0.16	1.85	0.97
River 1	Reach 1-Upper	279	10YrCHI3Hr	0.20	92.08	92.28		92.32	0.017921	0.87	0.23	2.03	0.83
River 1	Reach 1-Upper	279	25YrCHI3Hr	0.26	92.08	92.31		92.35	0.013590	0.86	0.30	2.25	0.75
River 1	Reach 1-Upper	279	50YrCHI3Hr	0.31	92.08	92.34		92.38	0.011935	0.87	0.36	2.40	0.71
River 1	Reach 1-Upper	279	100YrCHI3Hr	0.37	92.08	92.36		92.40	0.010878	0.88	0.42	2.54	0.69
River 1	Reach 1-Upper	279	2YrSCS24Hr	0.13	92.08	92.24	92.24	92.28	0.028026	0.89	0.15	1.77	1.00
River 1	Reach 1-Upper	279	5YrSCS24Hr	0.21	92.08	92.29		92.33	0.016973	0.87	0.24	2.08	0.82
River 1	Reach 1-Upper	279	10YrSCS24Hr	0.27	92.08	92.32		92.36	0.013275	0.86	0.31	2.27	0.74
River 1	Reach 1-Upper	279	25YrSCS24Hr	0.34	92.08	92.35		92.39	0.011320	0.87	0.39	2.47	0.70
River 1	Reach 1-Upper	279	50YrSCS24Hr	0.40	92.08	92.38		92.42	0.010412	0.89	0.45	2.61	0.68
River 1	Reach 1-Upper	279	100YrSCS24Hr	0.47	92.08	92.40		92.44	0.009682	0.90	0.52	2.76	0.67
River 1	Reach 1-Upper	277	2YrCHI3Hr	0.09	91.95	92.21		92.21	0.000715	0.22	0.40	2.73	0.18
River 1	Reach 1-Upper	277	5YrCHI3Hr	0.15	91.95	92.26		92.26	0.000859	0.28	0.55	3.02	0.20
River 1	Reach 1-Upper	277	10YrCHI3Hr	0.20	91.95	92.29		92.29	0.000926	0.32	0.64	3.19	0.21
River 1	Reach 1-Upper	277	25YrCHI3Hr	0.26	91.95	92.32		92.33	0.000998	0.37	0.75	3.39	0.23
River 1	Reach 1-Upper	277	50YrCHI3Hr	0.31	91.95	92.35		92.36	0.001055	0.40	0.84	3.52	0.24
River 1	Reach 1-Upper	277	100YrCHI3Hr	0.37	91.95	92.37		92.38	0.001115	0.43	0.92	3.65	0.25
River 1	Reach 1-Upper	277	2YrSCS24Hr	0.13	91.95	92.25		92.25	0.000829	0.26	0.51	2.95	0.20

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River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	277	5YrSCS24Hr	0.21	91.95	92.30		92.30	0.000956	0.33	0.66	3.23	0.22
River 1	Reach 1-Upper	277	10YrSCS24Hr	0.27	91.95	92.33		92.34	0.001007	0.37	0.77	3.41	0.23
River 1	Reach 1-Upper	277	25YrSCS24Hr	0.34	91.95	92.36		92.37	0.001088	0.42	0.88	3.60	0.24
River 1	Reach 1-Upper	277	50YrSCS24Hr	0.40	91.95	92.39		92.40	0.001148	0.45	0.97	3.73	0.25
River 1	Reach 1-Upper	277	100YrSCS24Hr	0.47	91.95	92.41		92.42	0.001203	0.48	1.06	3.86	0.26
River 1	Reach 1-Upper	270	2YrCHI3Hr	0.09	92.03	92.20		92.20	0.001702	0.28	0.31	2.65	0.26
River 1	Reach 1-Upper	270	5YrCHI3Hr	0.15	92.03	92.25		92.26	0.001752	0.33	0.45	3.08	0.28
River 1	Reach 1-Upper	270	10YrCHI3Hr	0.20	92.03	92.28		92.29	0.001743	0.36	0.54	3.36	0.28
River 1	Reach 1-Upper	270	25YrCHI3Hr	0.26	92.03	92.31		92.32	0.001731	0.40	0.67	3.69	0.29
River 1	Reach 1-Upper	270	50YrCHI3Hr	0.31	92.03	92.34		92.35	0.001733	0.42	0.76	3.96	0.29
River 1	Reach 1-Upper	270	100YrCHI3Hr	0.37	92.03	92.36		92.37	0.001677	0.44	0.86	4.77	0.29
River 1	Reach 1-Upper	270	2YrSCS24Hr	0.13	92.03	92.24		92.24	0.001762	0.32	0.41	2.96	0.27
River 1	Reach 1-Upper	270	5YrSCS24Hr	0.21	92.03	92.29		92.29	0.001769	0.37	0.57	3.43	0.28
River 1	Reach 1-Upper	270	10YrSCS24Hr	0.27	92.03	92.32		92.33	0.001732	0.40	0.68	3.72	0.29
River 1	Reach 1-Upper	270	25YrSCS24Hr	0.34	92.03	92.35		92.36	0.001702	0.43	0.81	4.41	0.29
River 1	Reach 1-Upper	270	50YrSCS24Hr	0.40	92.03	92.38		92.39	0.001649	0.46	0.93	5.22	0.29
River 1	Reach 1-Upper	270	100YrSCS24Hr	0.47	92.03	92.40		92.41	0.001589	0.48	1.06	5.67	0.29
River 1	Reach 1-Upper	261	2YrCHI3Hr	0.09	92.00	92.18	92.10	92.19	0.002251	0.33	0.26	2.11	0.30
River 1	Reach 1-Upper	261	5YrCHI3Hr	0.15	92.00	92.23	92.13	92.24	0.002551	0.41	0.36	2.34	0.33
River 1	Reach 1-Upper	261	10YrCHI3Hr	0.20	92.00	92.26	92.15	92.27	0.002717	0.45	0.43	2.48	0.35
River 1	Reach 1-Upper	261	25YrCHI3Hr	0.26	92.00	92.29	92.17	92.30	0.002863	0.50	0.52	2.64	0.36
River 1	Reach 1-Upper	261	50YrCHI3Hr	0.31	92.00	92.31	92.19	92.33	0.002989	0.54	0.58	2.75	0.38
River 1	Reach 1-Upper	261	100YrCHI3Hr	0.37	92.00	92.34	92.21	92.35	0.003096	0.57	0.64	2.86	0.39
River 1	Reach 1-Upper	261	2YrSCS24Hr	0.13	92.00	92.22	92.12	92.22	0.002475	0.39	0.33	2.28	0.32
River 1	Reach 1-Upper	261	5YrSCS24Hr	0.21	92.00	92.26	92.16	92.28	0.002821	0.47	0.45	2.51	0.36
River 1	Reach 1-Upper	261	10YrSCS24Hr	0.27	92.00	92.29	92.18	92.31	0.002885	0.51	0.53	2.66	0.37
River 1	Reach 1-Upper	261	25YrSCS24Hr	0.34	92.00	92.33	92.20	92.34	0.003049	0.56	0.61	2.81	0.38
River 1	Reach 1-Upper	261	50YrSCS24Hr	0.40	92.00	92.35	92.21	92.37	0.003151	0.59	0.68	2.93	0.39
River 1	Reach 1-Upper	261	100YrSCS24Hr	0.47	92.00	92.37	92.23	92.39	0.003253	0.62	0.75	3.06	0.40
River 1	Reach 1-Upper	239	2YrCHI3Hr	0.09	91.93	92.05	92.04	92.07	0.017641	0.69	0.12	1.58	0.78
River 1	Reach 1-Upper	239	5YrCHI3Hr	0.15	91.93	92.09	92.07	92.12	0.014089	0.75	0.20	1.89	0.73
River 1	Reach 1-Upper	239	10YrCHI3Hr	0.20	91.93	92.12	92.09	92.15	0.012625	0.78	0.25	2.05	0.71
River 1	Reach 1-Upper	239	25YrCHI3Hr	0.26	91.93	92.15	92.11	92.18	0.011287	0.82	0.32	2.22	0.69
River 1	Reach 1-Upper	239	50YrCHI3Hr	0.31	91.93	92.17	92.13	92.21	0.010600	0.84	0.37	2.34	0.68
River 1	Reach 1-Upper	239	100YrCHI3Hr	0.37	91.93	92.20	92.15	92.23	0.010052	0.87	0.42	2.45	0.67
River 1	Reach 1-Upper	239	2YrSCS24Hr	0.13	91.93	92.08	92.06	92.11	0.014856	0.73	0.18	1.80	0.74
River 1	Reach 1-Upper	239	5YrSCS24Hr	0.21	91.93	92.13	92.10	92.16	0.012234	0.79	0.27	2.09	0.70
River 1	Reach 1-Upper	239	10YrSCS24Hr	0.27	91.93	92.15	92.12	92.19	0.011165	0.82	0.33	2.24	0.69
River 1	Reach 1-Upper	239	25YrSCS24Hr	0.34	91.93	92.19	92.14	92.22	0.010287	0.86	0.40	2.40	0.67
River 1	Reach 1-Upper	239	50YrSCS24Hr	0.40	91.93	92.21	92.16	92.25	0.009754	0.88	0.45	2.52	0.66
River 1	Reach 1-Upper	239	100YrSCS24Hr	0.47	91.93	92.23	92.17	92.27	0.009233	0.90	0.52	2.64	0.65
River 1	Reach 1-Upper	218	2YrCHI3Hr	0.09	91.82	91.97	91.90	91.98	0.002011	0.30	0.29	2.50	0.28
River 1	Reach 1-Upper	218	5YrCHI3Hr	0.15	91.82	92.02	91.92	92.02	0.002154	0.37	0.41	2.72	0.30
River 1	Reach 1-Upper	218	10YrCHI3Hr	0.20	91.82	92.05	91.94	92.05	0.002195	0.40	0.49	2.86	0.31
River 1	Reach 1-Upper	218	25YrCHI3Hr	0.26	91.82	92.08	91.96	92.09	0.002317	0.45	0.58	3.01	0.33
River 1	Reach 1-Upper	218	50YrCHI3Hr	0.31	91.82	92.10	91.97	92.11	0.002380	0.48	0.65	3.13	0.34
River 1	Reach 1-Upper	218	100YrCHI3Hr	0.37	91.82	92.12	91.99	92.14	0.002427	0.51	0.72	3.24	0.34
River 1	Reach 1-Upper	218	2YrSCS24Hr	0.13	91.82	92.00	91.92	92.01	0.002121	0.35	0.37	2.66	0.30
River 1	Reach 1-Upper	218	5YrSCS24Hr	0.21	91.82	92.05	91.94	92.06	0.002229	0.42	0.51	2.90	0.32
River 1	Reach 1-Upper	218	10YrSCS24Hr	0.27	91.82	92.08	91.96	92.09	0.002328	0.45	0.59	3.03	0.33
River 1	Reach 1-Upper	218	25YrSCS24Hr	0.34	91.82	92.11	91.98	92.13	0.002406	0.50	0.69	3.19	0.34
River 1	Reach 1-Upper	218	50YrSCS24Hr	0.40	91.82	92.14	91.99	92.15	0.002455	0.52	0.77	3.32	0.35
River 1	Reach 1-Upper	218	100YrSCS24Hr	0.47	91.82	92.16	92.01	92.18	0.002479	0.55	0.85	3.47	0.35
River 1	Reach 1-Upper	197	2YrCHI3Hr	0.09	91.73	91.86	91.84	91.88	0.015766	0.67	0.13	1.59	0.75
River 1	Reach 1-Upper	197	5YrCHI3Hr	0.15	91.73	91.90	91.87	91.93	0.013264	0.74	0.20	1.88	0.72
River 1	Reach 1-Upper	197	10YrCHI3Hr	0.20	91.73	91.92	91.89	91.96	0.012348	0.78	0.25	2.01	0.71
River 1	Reach 1-Upper	197	25YrCHI3Hr	0.26	91.73	91.95	91.92	91.99	0.011605	0.83	0.31	2.16	0.70
River 1	Reach 1-Upper	197	50YrCHI3Hr	0.31	91.73	91.98	91.94	92.01	0.010864	0.86	0.36	2.27	0.69
River 1	Reach 1-Upper	197	100YrCHI3Hr	0.37	91.73	92.00	91.95	92.04	0.010606	0.90	0.41	2.36	0.68
River 1	Reach 1-Upper	197	2YrSCS24Hr	0.13	91.73	91.89	91.87	91.91	0.013909	0.72	0.18	1.81	0.72
River 1	Reach 1-Upper	197	5YrSCS24Hr	0.21	91.73	91.93	91.90	91.96	0.012137	0.79	0.27	2.05	0.70
River 1	Reach 1-Upper	197	10YrSCS24Hr	0.27	91.73	91.96	91.92	91.99	0.011514	0.84	0.32	2.18	0.70
River 1	Reach 1-Upper	197	25YrSCS24Hr	0.34	91.73	91.99	91.95	92.03	0.010714	0.88	0.39	2.32	0.69
River 1	Reach 1-Upper	197	50YrSCS24Hr	0.40	91.73	92.01	91.96	92.05	0.010480	0.92	0.44	2.41	0.69
River 1	Reach 1-Upper	197	100YrSCS24Hr	0.47	91.73	92.03	91.98	92.08	0.010295	0.95	0.49	2.51	0.69
River 1	Reach 1-Upper	174	2YrCHI3Hr	0.09	91.52	91.70	91.64	91.71	0.004240	0.42	0.20	1.84	0.40
River 1	Reach 1-Upper	174	5YrCHI3Hr	0.15	91.52	91.75	91.67	91.76	0.004464	0.50	0.30	2.18	0.43
River 1	Reach 1-Upper	174	10YrCHI3Hr	0.20	91.52	91.78	91.70	91.79	0.004630	0.55	0.36	2.30	0.45
River 1	Reach 1-Upper	174	25YrCHI3Hr	0.26	91.52	91.81	91.72	91.82	0.004764	0.60	0.43	2.46	0.46
River 1	Reach 1-Upper	174	50YrCHI3Hr	0.31	91.52	91.83	91.74	91.85	0.004920	0.64	0.48	2.56	0.47
River 1	Reach 1-Upper	174	100YrCHI3Hr	0.37	91.52	91.85	91.76	91.87	0.005045	0.68	0.54	2.67	0.48
River 1	Reach 1-Upper	174	2YrSCS24Hr	0.13	91.52	91.74	91.67	91.75	0.004376	0.48	0.27	2.09	0.42
River 1	Reach 1-Upper	174	5YrSCS24Hr	0.21	91.52	91.78	91.70	91.80	0.004673	0.56	0.37	2.34	0.45
River 1	Reach 1-Upper	174	10YrSCS24Hr	0.27	91.52	91.81	91.72	91.83	0.004791	0.61	0.44	2.47	0.46
River 1	Reach 1-Upper	174	25YrSCS24Hr	0.34	91.52	91.84	91.75	91.86	0.004993	0.67	0.51	2.62	0.48
River 1	Reach 1-Upper	174	50YrSCS24Hr	0.40	91.52	91.86	91.77	91.89	0.005108	0.70	0.57	2.72	0.49
River 1	Reach 1-Upper	174	100YrSCS24Hr	0.47	91.52	91.88	91.78	91.91	0.005150	0.73	0.63	2.83	0.50
River 1	Reach 1-Upper	154	2YrCHI3Hr	0.09	91.43	91.62	91.56	91.63	0.004316	0.40	0.22	2.21	0.40
River 1	Reach 1-Upper	154	5YrCHI3Hr	0.15	91.43	91.66	91.59	91.67	0.004196	0.46	0.33	2.61	0.41
River 1	Reach 1-Upper	154	10YrCHI3Hr	0.20	91.43	91.69	91.61	91.70	0.004192	0.49	0.40	2.83	0.42
River 1	Reach 1-Upper	154	25YrCHI3Hr	0.26	91.43	91.72	91.63	91.74	0.004098	0.53	0.49	3.08	0.42
River 1	Reach 1-Upper	154	50YrCHI3Hr	0.31	91.43	91.74	91.65	91.76	0.004007	0.55	0.56	3.25	0.43
River 1	Reach 1-Upper	154	100YrCHI3Hr	0.37	91.43	91.77	91.67	91.78	0.003907	0.58	0.64	3.40	0.43

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River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Upper	154	2YrSCS24Hr	0.13	91.43	91.65	91.58	91.66	0.004250	0.44	0.29	2.50	0.41
River 1	Reach 1-Upper	154	5YrSCS24Hr	0.21	91.43	91.70	91.62	91.71	0.004172	0.50	0.42	2.89	0.42
River 1	Reach 1-Upper	154	10YrSCS24Hr	0.27	91.43	91.72	91.64	91.74	0.004085	0.53	0.50	3.11	0.42
River 1	Reach 1-Upper	154	25YrSCS24Hr	0.34	91.43	91.76	91.66	91.77	0.003951	0.57	0.60	3.33	0.43
River 1	Reach 1-Upper	154	50YrSCS24Hr	0.40	91.43	91.78	91.68	91.80	0.003857	0.59	0.68	3.48	0.43
River 1	Reach 1-Upper	154	100YrSCS24Hr	0.47	91.43	91.80	91.69	91.82	0.003775	0.61	0.76	3.63	0.43
River 1	Reach 1-Upper	137	2YrCHI3Hr	0.09	91.33	91.49	91.46	91.51	0.011391	0.63	0.14	1.43	0.65
River 1	Reach 1-Upper	137	5YrCHI3Hr	0.15	91.33	91.53	91.50	91.56	0.011329	0.73	0.20	1.66	0.67
River 1	Reach 1-Upper	137	10YrCHI3Hr	0.20	91.33	91.56	91.52	91.59	0.011021	0.78	0.25	1.80	0.67
River 1	Reach 1-Upper	137	25YrCHI3Hr	0.26	91.33	91.59	91.55	91.63	0.010598	0.84	0.31	1.97	0.67
River 1	Reach 1-Upper	137	50YrCHI3Hr	0.31	91.33	91.62	91.57	91.65	0.010270	0.87	0.36	2.09	0.67
River 1	Reach 1-Upper	137	100YrCHI3Hr	0.37	91.33	91.64	91.58	91.68	0.009885	0.90	0.41	2.22	0.67
River 1	Reach 1-Upper	137	2YrSCS24Hr	0.13	91.33	91.52	91.49	91.55	0.011458	0.71	0.18	1.59	0.67
River 1	Reach 1-Upper	137	5YrSCS24Hr	0.21	91.33	91.57	91.53	91.60	0.010925	0.80	0.26	1.84	0.67
River 1	Reach 1-Upper	137	10YrSCS24Hr	0.27	91.33	91.60	91.55	91.63	0.010544	0.84	0.32	1.99	0.67
River 1	Reach 1-Upper	137	25YrSCS24Hr	0.34	91.33	91.63	91.58	91.67	0.010099	0.89	0.39	2.16	0.67
River 1	Reach 1-Upper	137	50YrSCS24Hr	0.40	91.33	91.65	91.60	91.69	0.009666	0.91	0.44	2.29	0.66
River 1	Reach 1-Upper	137	100YrSCS24Hr	0.47	91.33	91.68	91.61	91.72	0.009370	0.93	0.50	2.42	0.66
River 1	Reach 1-Upper	116	2YrCHI3Hr	0.09	91.23	91.38	91.32	91.39	0.003211	0.37	0.23	2.08	0.35
River 1	Reach 1-Upper	116	5YrCHI3Hr	0.15	91.23	91.44	91.35	91.44	0.002924	0.42	0.35	2.37	0.35
River 1	Reach 1-Upper	116	10YrCHI3Hr	0.20	91.23	91.47	91.37	91.48	0.002866	0.46	0.43	2.54	0.36
River 1	Reach 1-Upper	116	25YrCHI3Hr	0.26	91.23	91.50	91.39	91.52	0.002818	0.49	0.53	2.75	0.36
River 1	Reach 1-Upper	116	50YrCHI3Hr	0.31	91.23	91.53	91.41	91.54	0.002810	0.52	0.60	2.89	0.36
River 1	Reach 1-Upper	116	100YrCHI3Hr	0.37	91.23	91.56	91.42	91.57	0.002815	0.54	0.68	3.03	0.37
River 1	Reach 1-Upper	116	2YrSCS24Hr	0.13	91.23	91.42	91.34	91.43	0.002958	0.41	0.32	2.29	0.35
River 1	Reach 1-Upper	116	5YrSCS24Hr	0.21	91.23	91.48	91.37	91.49	0.002849	0.47	0.45	2.59	0.36
River 1	Reach 1-Upper	116	10YrSCS24Hr	0.27	91.23	91.51	91.39	91.52	0.002820	0.50	0.54	2.77	0.36
River 1	Reach 1-Upper	116	25YrSCS24Hr	0.34	91.23	91.54	91.41	91.56	0.002805	0.53	0.64	2.96	0.37
River 1	Reach 1-Upper	116	50YrSCS24Hr	0.40	91.23	91.58	91.43	91.59	0.002603	0.54	0.74	3.12	0.36
River 1	Reach 1-Upper	116	100YrSCS24Hr	0.47	91.23	91.60	91.45	91.62	0.002583	0.57	0.82	3.24	0.36
River 1	Reach 1-Upper	95	2YrCHI3Hr	0.09	91.07	91.29	91.23	91.30	0.006154	0.52	0.16	1.38	0.48
River 1	Reach 1-Upper	95	5YrCHI3Hr	0.15	91.07	91.33	91.27	91.35	0.006882	0.63	0.24	1.61	0.53
River 1	Reach 1-Upper	95	10YrCHI3Hr	0.20	91.07	91.36	91.30	91.39	0.007544	0.71	0.28	1.73	0.56
River 1	Reach 1-Upper	95	25YrCHI3Hr	0.26	91.07	91.39	91.33	91.42	0.007915	0.77	0.34	1.88	0.58
River 1	Reach 1-Upper	95	50YrCHI3Hr	0.31	91.07	91.41	91.35	91.45	0.008499	0.83	0.37	1.97	0.61
River 1	Reach 1-Upper	95	100YrCHI3Hr	0.37	91.07	91.42	91.37	91.47	0.008857	0.92	0.40	2.03	0.66
River 1	Reach 1-Upper	95	2YrSCS24Hr	0.13	91.07	91.32	91.26	91.34	0.006702	0.60	0.21	1.55	0.52
River 1	Reach 1-Upper	95	5YrSCS24Hr	0.21	91.07	91.37	91.30	91.39	0.007595	0.72	0.29	1.76	0.57
River 1	Reach 1-Upper	95	10YrSCS24Hr	0.27	91.07	91.39	91.33	91.43	0.008212	0.79	0.34	1.88	0.60
River 1	Reach 1-Upper	95	25YrSCS24Hr	0.34	91.07	91.42	91.36	91.46	0.008586	0.86	0.40	2.03	0.62
River 1	Reach 1-Upper	95	50YrSCS24Hr	0.40	91.07	91.39	91.38	91.46	0.020514	1.23	0.33	1.85	0.94
River 1	Reach 1-Upper	95	100YrSCS24Hr	0.47	91.07	91.40	91.40	91.49	0.023191	1.34	0.35	1.90	1.00
River 1	Reach 1-Upper	72	2YrCHI3Hr	0.09	90.91	91.00	91.00	91.03	0.030446	0.75	0.12	1.98	0.99
River 1	Reach 1-Upper	72	5YrCHI3Hr	0.15	90.91	91.03	91.03	91.07	0.029306	0.85	0.18	2.40	1.01
River 1	Reach 1-Upper	72	10YrCHI3Hr	0.20	90.91	91.05	91.05	91.09	0.027108	0.89	0.22	2.63	0.99
River 1	Reach 1-Upper	72	25YrCHI3Hr	0.26	90.91	91.06	91.06	91.11	0.027545	0.98	0.27	2.80	1.02
River 1	Reach 1-Upper	72	50YrCHI3Hr	0.31	90.91	91.08	91.08	91.13	0.025861	1.01	0.31	2.94	1.00
River 1	Reach 1-Upper	72	100YrCHI3Hr	0.37	90.91	91.10	91.09	91.15	0.020926	0.99	0.37	3.11	0.92
River 1	Reach 1-Upper	72	2YrSCS24Hr	0.13	90.91	91.02	91.02	91.06	0.029339	0.82	0.16	2.29	1.00
River 1	Reach 1-Upper	72	5YrSCS24Hr	0.21	90.91	91.05	91.05	91.09	0.027610	0.92	0.23	2.67	1.00
River 1	Reach 1-Upper	72	10YrSCS24Hr	0.27	90.91	91.07	91.07	91.12	0.025875	0.97	0.28	2.84	0.99
River 1	Reach 1-Upper	72	25YrSCS24Hr	0.34	90.91	91.09	91.09	91.14	0.025973	1.05	0.33	2.99	1.01
River 1	Reach 1-Upper	72	50YrSCS24Hr	0.40	90.91	91.16	91.10	91.18	0.007464	0.71	0.56	3.60	0.57
River 1	Reach 1-Upper	72	100YrSCS24Hr	0.47	90.91	91.23	91.11	91.24	0.003199	0.55	0.84	4.09	0.39
River 1	Reach 1-Lower	56	2YrCHI3Hr	0.15	90.47	90.73	90.57	90.74	0.000357	0.19	0.75	10.20	0.13
River 1	Reach 1-Lower	56	5YrCHI3Hr	0.27	90.47	90.84	90.60	90.85	0.000296	0.23	1.14	14.31	0.13
River 1	Reach 1-Lower	56	10YrCHI3Hr	0.36	90.47	90.92	90.62	90.92	0.000278	0.26	1.39	16.93	0.13
River 1	Reach 1-Lower	56	25YrCHI3Hr	0.49	90.47	91.00	90.64	91.01	0.000268	0.29	1.69	19.74	0.13
River 1	Reach 1-Lower	56	50YrCHI3Hr	0.59	90.47	91.06	90.66	91.07	0.000266	0.31	1.90	20.02	0.13
River 1	Reach 1-Lower	56	100YrCHI3Hr	0.70	90.47	91.12	90.68	91.13	0.000265	0.33	2.12	20.02	0.14
River 1	Reach 1-Lower	56	2YrSCS24Hr	0.24	90.47	90.82	90.59	90.82	0.000304	0.22	1.05	13.13	0.13
River 1	Reach 1-Lower	56	5YrSCS24Hr	0.39	90.47	90.94	90.63	90.94	0.000277	0.27	1.48	18.00	0.13
River 1	Reach 1-Lower	56	10YrSCS24Hr	0.51	90.47	91.02	90.65	91.02	0.000267	0.29	1.74	19.88	0.13
River 1	Reach 1-Lower	56	25YrSCS24Hr	0.66	90.47	91.10	90.67	91.11	0.000263	0.32	2.04	20.02	0.13
River 1	Reach 1-Lower	56	50YrSCS24Hr	0.78	90.47	91.17	90.69	91.17	0.000262	0.34	2.26	20.02	0.14
River 1	Reach 1-Lower	56	100YrSCS24Hr	0.91	90.47	91.23	90.71	91.24	0.000261	0.37	2.49	20.02	0.14
River 1	Reach 1-Lower	50		Culvert									
River 1	Reach 1-Lower	38	2YrCHI3Hr	0.15	90.46	90.57	90.53	90.58	0.005051	0.43	0.34	30.28	0.44
River 1	Reach 1-Lower	38	5YrCHI3Hr	0.27	90.46	90.60	90.56	90.62	0.007031	0.60	0.44	34.43	0.54
River 1	Reach 1-Lower	38	10YrCHI3Hr	0.36	90.46	90.61	90.57	90.64	0.008579	0.72	0.50	35.66	0.61
River 1	Reach 1-Lower	38	25YrCHI3Hr	0.49	90.46	90.63	90.60	90.67	0.010583	0.87	0.56	36.52	0.69
River 1	Reach 1-Lower	38	50YrCHI3Hr	0.59	90.46	90.64	90.61	90.69	0.012203	0.98	0.60	36.89	0.75
River 1	Reach 1-Lower	38	100YrCHI3Hr	0.70	90.46	90.66	90.63	90.72	0.013813	1.09	0.65	37.64	0.81
River 1	Reach 1-Lower	38	2YrSCS24Hr	0.24	90.46	90.59	90.55	90.61	0.006467	0.56	0.42	33.58	0.52
River 1	Reach 1-Lower	38	5YrSCS24Hr	0.39	90.46	90.62	90.58	90.65	0.009154	0.76	0.52	36.19	0.63
River 1	Reach 1-Lower	38	10YrSCS24Hr	0.51	90.46	90.63	90.60	90.67	0.010929	0.89	0.57	36.58	0.70
River 1	Reach 1-Lower	38	25YrSCS24Hr	0.66	90.46	90.65	90.63	90.71	0.013171	1.05	0.63	37.34	0.79
River 1	Reach 1-Lower	38	50YrSCS24Hr	0.78	90.46	90.66	90.64	90.73	0.015114	1.17	0.67	38.00	0.85
River 1	Reach 1-Lower	38	100YrSCS24Hr	0.91	90.46	90.67	90.66	90.76	0.017482	1.30	0.70	38.43	0.92
River 1	Reach 1-Lower	0	2YrCHI3Hr	0.15	90.42	90.50	90.46	90.50	0.001001	0.13	1.08	18.88	0.18
River 1	Reach 1-Lower	0	5YrCHI3Hr	0.27	90.42	90.53	90.47	90.53	0.001000	0.17	1.59	20.05	0.19
River 1	Reach 1-Lower	0	10YrCHI3Hr	0.36	90.42	90.54	90.48	90.54	0.001000	0.19	1.92	20.28	0.19

HEC-RAS Plan: 20260401-Post_Dev_v03 (Continued)

River	Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
River 1	Reach 1-Lower	0	25YrCHI3Hr	0.49	90.42	90.56	90.49	90.56	0.001001	0.21	2.31	20.57	0.20
River 1	Reach 1-Lower	0	50YrCHI3Hr	0.59	90.42	90.58	90.49	90.58	0.001000	0.23	2.60	20.77	0.20
River 1	Reach 1-Lower	0	100YrCHI3Hr	0.70	90.42	90.59	90.50	90.60	0.001000	0.24	2.93	21.43	0.21
River 1	Reach 1-Lower	0	2YrSCS24Hr	0.24	90.42	90.52	90.46	90.52	0.001000	0.16	1.48	19.96	0.19
River 1	Reach 1-Lower	0	5YrSCS24Hr	0.39	90.42	90.55	90.48	90.55	0.001000	0.19	2.03	20.37	0.20
River 1	Reach 1-Lower	0	10YrSCS24Hr	0.51	90.42	90.57	90.48	90.57	0.001001	0.21	2.37	20.61	0.20
River 1	Reach 1-Lower	0	25YrSCS24Hr	0.66	90.42	90.59	90.49	90.59	0.001000	0.23	2.81	21.18	0.21
River 1	Reach 1-Lower	0	50YrSCS24Hr	0.78	90.42	90.60	90.50	90.60	0.001001	0.25	3.13	21.55	0.21
River 1	Reach 1-Lower	0	100YrSCS24Hr	0.91	90.42	90.62	90.51	90.62	0.001000	0.26	3.45	21.74	0.21