

SIMTA

Flood Study and Stormwater Management



SYDNEY INTERMODAL TERMINAL ALLIANCE

Part 3A Concept Plan Application

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SIMTA

Moorebank Intermodal Terminal Facility

Flood Study and Stormwater Management

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(As Listed in Attachment)

Executive summary

This report presents a flooding and stormwater assessment for the Sydney Intermodal Terminal Alliance (SIMTA). The following assessment has been carried out, adopting general principals of broader civil engineering design:

Current civil design

This first stage of the flooding and stormwater assessment has involved an initial quantifying of site runoff, on-site detention requirements and identifying locations of potential flooding impacts on neighbouring land holders, based on the current civil design.

The accompanying current civil design drawings maximise the site developable area and assume that where there may be flooding or stormwater impacts on neighbouring areas (as a consequence of the SIMTA site) negotiation with neighbouring landholders would be conducted.

The initial on-site detention (OSD) volume estimate (discussed in Section 5 of this report) has been subject to revision as discussed in the 'Anzac Creek Floodplain Modelling' and 'Civil Design Options' Sections (6 and 7) of this report.

Anzac Creek floodplain modelling

Following the initial OSD assessment, two dimensional waterway modelling of potential impacts extending along Anzac Creek was carried out. This broader catchment assessment identified the need to increase the initial OSD requirements in the north-eastern portion of the site. It is anticipated that this would be achieved by reconfiguring the concept channel and pond, and raising the north-eastern area ground levels.

Flood flow regime figures for Anzac Creek (which include the additional OSD) are included in Appendix E. These figures indicate that on Anzac Creek, the SIMTA proposal would result in little if any impact on 100 year ARI flooding.

Civil design options

This assessment was carried out to indicate 100 year ARI flood levels along the proposed trunk drainage or OSD channels within the site, and provide civil design options for the purpose of mitigating potential adverse flooding and stormwater impacts on the neighbouring land holders.

Sketches of the areas where the current concept civil design may be modified to limit flood impacts on the local neighbouring properties are included in the accompanying Drawings and are intended to facilitate future design considerations.

1 Introduction

The Sydney Intermodal Terminal Alliance (SIMTA) is a joint venture between Stockland, Qube Logistics and QR National. The SIMTA Moorebank Intermodal Terminal Facility (SIMTA proposal) is proposed to be located on the land parcel currently occupied by the Defence National Storage and Distribution Centre (DNSDC) on Moorebank Avenue, Moorebank, south west of Sydney. SIMTA proposes to develop the DNSDC occupied site into an intermodal terminal facility and warehouse or distribution facility, which will offer container storage and warehousing solutions with direct rail access.

The SIMTA site is located in the Liverpool local government area. It is 27 kilometres west of the Sydney CBD, 16 kilometres south of the Parramatta CBD, five kilometres east of the M5/M7 Interchange, two kilometres from the main north-south rail line and future Southern Sydney Freight Line, and 0.6 kilometres from the M5 motorway.

The SIMTA site, around 83 hectares in area, is currently operating as a Defence storage and distribution centre. The SIMTA site is legally identified as Lot 1 in DP1048263 and zoned as General Industrial under Liverpool City Council LEP 2008. The parcels of land to the south and south-west that would be utilised for the proposed rail corridor are referred to as the rail corridor. The proposed rail corridor covers about 65 hectares and adjoins the Main Southern Railway to the north. Existing land use includes vacant land, golf course, extractive industries, and a waste disposal depot. Native vegetation includes woodland, forest and wetland communities in varying condition. Georges River and Anzac Creek intersect the proposed rail corridor. The proposed rail corridor to the south of the SIMTA site, north of the existing East Hills Rail Line are part of Lot 3001 DP1125930 and Lot 1 DP1125930. To the west of the Georges River, the Glenfield Waste Disposal site comprises several lots that are currently all used for the purposes of the waste facility.

The SIMTA proposal will be undertaken as a staged development and it is intended that an overall Master Plan, for the entire site, be undertaken for the purpose of applying for Concept Plan approval under Part 3A of the *Environmental Planning and Assessment Act 1979*.

The SIMTA proposal will be undertaken as a staged development. An annual operating capacity of 1,000,000 TEU throughput is anticipated in the ultimate stage, when fully developed.

This report comprises a concept stormwater management plan and flood study assessment completed as part of the civil engineering concept designs developed for the proposed intermodal terminal facility. The report is intended to accompany the submission documents for a Concept Plan under Part 3A of the *Environmental Planning and Assessment Act.*

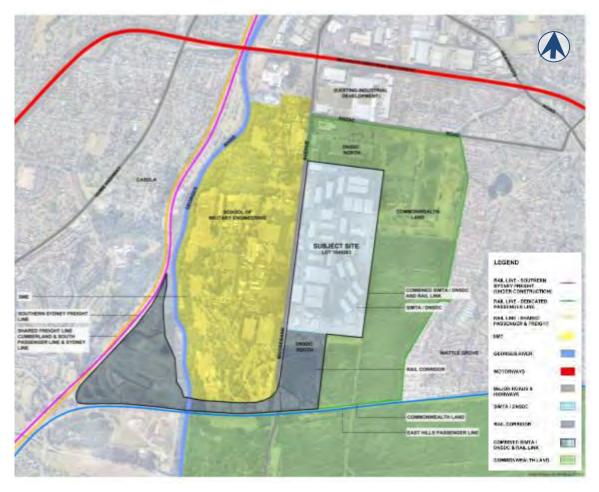


Figure 1: Moorebank intermodal terminal site location plan

2 Database

The following information has formed the database for this flood assessment and stormwater management plan:

- Australian Rainfall and Runoff by the Institute of Engineers Australia (2001).
- NSW Floodplain Management Manual by DIPNR (2005).
- Bureau of Meteorology Rainfall Intensities for the Liverpool City Council Area.
- The Estimation of Probable Maximum Precipitation in Australia: Generalised Short-Duration Method by Commonwealth Bureau of Meteorology (June 2003).
- Services and Flood Investigation Report for Defence National Storage and Distribution Centre, Moorebank by Cardno Willing (December 2002).
- Anzac Creek Floodplain Risk Management Study and Plan by BMT WBM Pty Ltd (30 May 2008) for Liverpool City Council.
- Georges River Floodplain Risk Management Study & Plan by Bewsher Consulting (May 2004) for Liverpool City Council.
- Practical Consideration of Climate Change Floodplain Risk Management Guideline by DECC (25 October 2007).
- Aerial laser survey provided by AAM Hatch Pty Ltd (May 2008, LiDAR Data Base).
- Ground survey for the site prepared by Hard and Forester (dated 3 August 2010).
- Liverpool City Council documents:
 - Liverpool Development Control Plan 2008.
 - Liverpool Development Control Plan 2008, Flood planning area map sheet FLD-013, cadastre 31 July 2009.

3 Existing catchments and drainage patterns

The aerial photo in Figure 2, shows that the site currently contains a number of warehouse style facilities connected by internal roads, interspersed with grass and trees. The site fronts onto Moorebank Avenue on its western boundary and Greenhills Road reservation on its eastern boundary. Moorebank Avenue is a formalised two lane road with grassed swales. Greenhills Road is an unformed road reservation that is predominantly used as a utility services corridor.

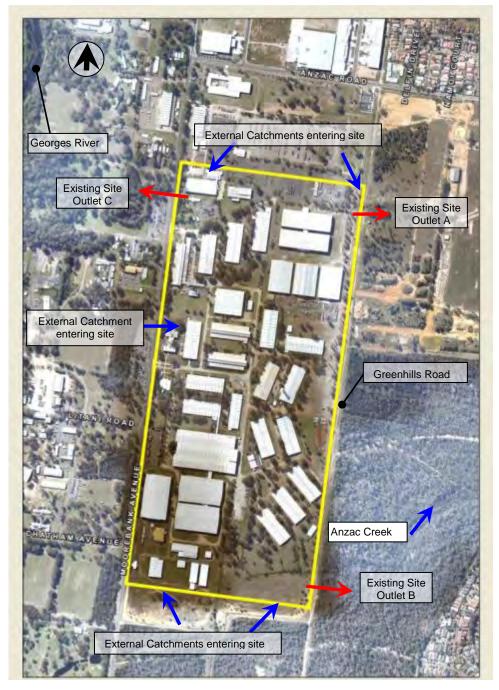


Figure 2: Existing site conditions (indicating external site flow locations)

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The site is relatively flat, particularly along the Moorebank Avenue frontage. The levels along Moorebank Avenue range from RL 14 metres to 16 metres. Along the Greenhills Road frontage, the land rises from about RL 14 metres at each end to a localised peak of RL 22 metres about midway along the length.

The site has bushland located to its eastern and southern boundaries with Anzac Creek running from south to north within relatively close proximity to the site. Anzac Creek is predominantly in its natural state within the bush area, however, as it flows north towards Anzac Road, the creek passes through an area of highly disturbed ground owned by Department of Defence. North of Anzac Road the creek runs through the residential area of Wattle Grove.

There are three existing formal stormwater discharge outlets from the site. Two points discharge eastward into Anzac Creek and cross under the Greenhills Road formation via pipes and headwalls. Stormwater from the site is carried through the site via formal open grass lined channels to pipes and headwalls under Greenhills Road. From Greenhills Road to Anzac Creek, the channels are less formalised.



Photos show channelled approaches and piped crossing under Greenhills Avenue from the northern outlet point



Photo shows concrete trapezoidal channel leading into heavily vegetated open channel which then drains to existing outlet on south-eastern corner

There is one discharge westward into the Georges River. Water from the site is collected in a formal concrete lined trapezoidal channel running within the site parallel to Moorebank Avenue. Water is led to a formalised pipe crossing of Moorebank Avenue into a concrete rectangular channel which leads to Georges River.



Photos show the concrete trapezoid within the site and the approach to the pipes crossing under Moorebank Avenue.

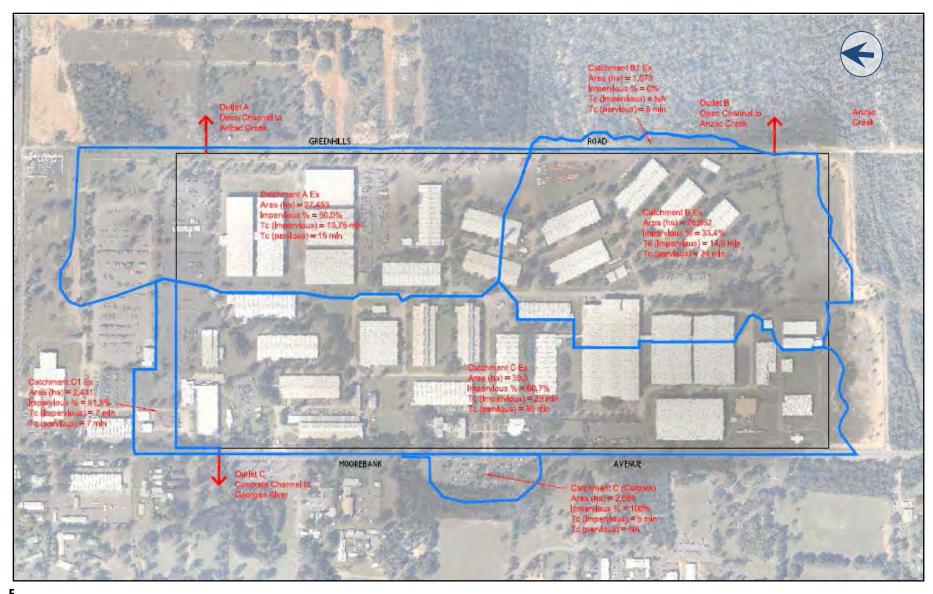


Concrete Channel downstream of pipes crossing Moorebank Ave leading to Georges River

There is also a small local external catchment area which discharges into the site midway along the western site boundary from the eastern side of Moorebank Avenue.

Figure 3 indicates the external catchments which enter the site, and the existing catchments within the site that discharge to the three existing culvert outlets. The majority of the external catchments have been identified from aerial laser survey contours and consist of small open areas which fall towards the site boundary.

One catchment is a sealed carpark within the School of Military Engineering on the western side of Moorebank Avenue. Stormwater runoff from the sealed carpark is captured and piped under Moorebank Avenue into the concrete trapezoidal open channel which runs inside the SIMTA site.



F Figure 3: Existing stormwater discharge points and approximate catchments

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4 Flooding and stormwater assessment process

The flooding and stormwater assessment process has been carried out in three stages.

4.1 Current civil design

This first stage of the flooding and stormwater assessment (using DRAINS, HEC-RAS and MUSIC software) has involved an initial quantifying of site runoff, on-site detention requirements and identifying locations of potential flooding impacts on neighbouring landholders, based on the current civil design. Current concept design drawings that relate to aspects of flooding and stormwater accompany this report.

The concept civil design drawings (see accompanying Drawings) maximise the site developable area, and assume that where there may be flooding or stormwater impacts on neighbouring areas as a consequence of the SIMTA site, negotiation with neighbouring landholders (with respect to obtaining drainage easements) would be conducted.

4.2 Anzac Creek floodplain modelling

Following the initial OSD assessment, two dimensional (TUFLOW) waterway modelling of potential impacts extending along Anzac Creek was carried out. This broader catchment assessment identifies the need to increase the initial OSD requirements (determined by the DRAINS site modelling) in the north-eastern portion of the site.

4.3 Civil design options

This subsequent assessment was carried out to indicate 100 year ARI flood levels along the proposed trunk drainage/OSD channels within the site, and provide civil design options for the purpose of mitigating potential adverse flooding and stormwater impacts on the neighbouring landholders.

Sketches of the areas where the current concept civil design may be modified to limit flood impacts on the local neighbouring properties are included in the accompanying Drawings.

Each of these three assessment stages are discussed as follows.

5 Current civil design

The initial civil design (provided in the accompanying Drawings) has attempted to maximise the developable site area through an site layout and nominated site platform levels. In conjunction with the initial design site, stormwater runoff was assessed using:

- DRAINS software for quantifying site runoff and estimating on-site detention (OSD) requirements for the mitigation of potential adverse flow impacts on Anzac Creek and the Georges River.
- MUSIC software for developing appropriate water quality controls.

These stormwater management assessments and findings are discussed as follows.

5.1 Water quantity

5.1.1 Existing conditions

Assessment methodology

DRAINS software has been used to develop a rainfall runoff model to assess the performance of the proposed site drainage channels with respect to mitigating potential flow impacts on neighbouring downstream areas.

DRAINS models have been developed to represent existing site conditions and post development site conditions to enable a comparison of discharges under the two development conditions.

For existing conditions the model catchments and impervious areas have been based on aerial photography, aerial laser survey for areas external to the site boundary, and ground survey for the site and for specific areas such as details downstream of the site discharge points. A site inspection to verify certain surveyed features was undertaken during the course of this study. However, due to the very flat terrain surrounding the site, as shown in the ALS data, it is recommended that further detailed survey be obtained during the tender design/detailed design stages of the SIMTA proposal to better define external catchment boundaries and levels along Greenhills Road and Moorebank Avenue

A sub-catchment plan that represents the layout adopted for the existing conditions DRAINS model is included in Appendix A.

The model parameters include:

- Paved area and Supplementary area depression storage is one millimetre, and pervious area depression storage is five millimetres.
- Soil type is 3.0.
- Antecedent moisture condition is 3.0 (rather wet).
- Stage/discharge for the three site outlets (two eastward under Greenhills Road, and one westward under Moorebank Avenue) defined by HEC-RAS modelling of the culvert outlets and associated downstream channels. Model inputs and outputs are included in Appendix B.

The DRAINS model has been run for storm durations of five minute to 24 hours for the two year, five year, 10 year, 20 year, 50 year and 100 year ARIs, and 15 minute to six hours for probable maximum precipitation (PMP) events. A summary of the model input data is included in Appendix A.

Results

A summary of peak flows discharging from the three site sub-areas is presented in Table 1. A summary of model outputs are included in Appendix A. Sub-catchment flows leaving the site are included in Appendix A for a range of storm durations.

5.1.2 Post development conditions

Stormwater management objectives

The overall stormwater design of the proposed intermodal development seeks to:

- Adopt recognised standards reflecting current practices adopted for similar facilities around the world.
- Comply with recognised Australian Standards and Liverpool City Council's Development Control Plan 2008.
- Assist with achieving a balance between cut and fill earthworks to negate import or export of earth to/from the site.
- Provide site levels which are above localised flood levels but do not impact upon capacity of existing floodplains.
- Provide adequate grades for surface drainage which do not impact on the operational requirements of the facility.
- Provide drainage facilities which minimise requirements for in-ground pipework and provide facilities for stormwater detention and Water Sensitive Urban Design (WSUD).

Assessment methodology

The existing conditions DRAINS model was adjusted to represent the post development site conditions as outlined in the concept plan included in the accompanying drawings. In particular the adjustments have included:

- Changes to sub-catchment boundaries. A sub-catchment plan that represents the layout adopted for the proposed conditions DRAINS model is included in the accompanying drawings.
- Adopting a 100 per cent impervious percentage within the site (to be reviewed at future design stages).
- Reduced flow travel times representative of the SIMTA proposal.
- Detention storages to mitigate potential flow increases. Detention storage details are included in the accompanying design drawings.

DRAINS model input data is included in Appendix A.

Figure 4 shows the post development catchment areas. Note that the existing catchments which are external to the site and identified as currently flowing into the site have been included within the post development catchments.

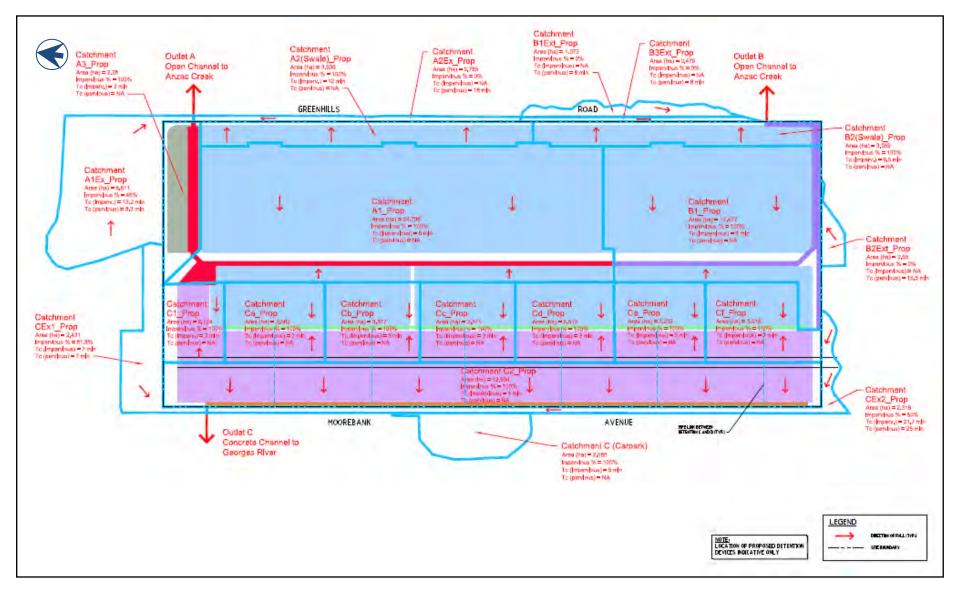


Figure 4: Post development catchment boundaries (including local external catchments)

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Results

Table 1 provides a summary of peak flows just downstream of the site for a range of recurrence intervals. Flow results for a fuller range of storm durations range of durations is provided in Appendix A. Table 2 provides a summary of key detention storage parameters and their performance. Storage details are provided in the accompanying design drawings. Table 3 summaries peak flows on catchments neighbouring the site, and that will require management through the site as discussed in the following comments section of this report. DRAINS model output data is included in Appendix A.

Discharge Location	Site Condition	Catchment Area	DRAINS Model	Flow at Downstream of Greenhills Rd / Moorebank Ave				
		(ha)	Label	2yr	20yr	100yr	PMF	
Outlet A NE Corner of Site (Greenhills Road)	Existing	27.45	OF17	2.42	6.24	8.33	50	
	Develope d	38.08	OF64	1.72	2.93	3.54	56	
Outlet B SE Corner of Site (Greenhills Road)	Existing	27.13	OF9	0.40	1.11	2.63	31	
	Develope d	18.64	OF51	0.39	0.86	2.01	27	
Outlet C NW Corner of Site (Moorebank Avenue)	Existing	42.33	OF30	5.74	10.20	12.70	62	
	Develope d	40.22	OF102	3.43	8.35	7.82	104	

Table 1: Comparison of peak flow estimates (m3/s)

Table 2: Summary of detention storage parameters and performance

	Parameters			Performance					
Basin [Invert mAHD]	Catch Area	Ou Dian	tlet neter	Outlet Weir	ARI	Peak Inflow (m ³ /s)	Peak outflo w (m ³ /s)	Water Level (mAHD)	Volum e (m³)
(ha)	(ha)	Low Level (mm)	High Level (mm)	Level (mAHD)					
А		250 &		14.40	2yr	8.53	0.71	14.96	12300
(in NE Cnr) [14.00]	30.68	475	490	& 15.75	100yr	4.95	1.95	15.91	27000
В	17.02	250	670	15.85	2yr	4.66	0.18	15.12	10000
(in SE Cnr) [14.00]	17.02	250	070 15.65	100yr	2.73	1.85	15.91	17060	
D	38.15	730	760	15 AE	2yr	10.9#	2.89	15.27	6930
(in NW Cnr) [14.00]	30.13	130	/ 60	15.45	100yr	20.2 [#]	7.82	15.90	10230

Indicates inflow into lower portion of storage (Basin D) only (not inflows to model Basins C1 to C6)

	Catchment	DRAINS	Flow (m ³ /s)			
Catchment Location	Area (ha)	Model Label	20yr	100yr	PMF	
Northern Boundary and NE Corner of Site	6.61	OF60	2.34	2.81	13	
Northern Boundary and NW Corner of Site	2.43	OF131	1.03	1.23	6	
Southern Boundary and SE Corner of Site	0.55	OF47	0.13	0.17	0.9	
Southern Boundary and SW Corner of Site	2.32	OF104	0.51	0.66	3.5	
Mid-Eastern Site Boundary	2.09	OF487	0.99	1.23	5.2	

Comments

Site detention storage

This initial assessment of peak flows leaving the site (summarised in Table 1) and the comparison graphs in Appendix A indicate that the proposed detention storages should adequately mitigate potential site runoff flow increases for a range of storm durations. However, in addition to the DRAINS modelling, a regional catchment wide analysis has been carried out to assess potential impacts on flow regimes on the broader Anzac Creek waterway as discuss in the Anzac Creek flood assessment section of this report (Section 6).

Management of external catchments

In general, maximising the developable site area would potentially impact on local neighbouring property, this includes:

- Impeding and diverting flows that currently enter the site along its northern and southern boundaries, and on its western boundary from a local carpark area (identified in Figures 3 and 4).
- Increasing flows along Moorebank Avenue.
- Increasing flooding across Greenhills.Road.

While these local adverse impacts may be open to negotiation with the various stakeholders, civil design options to avoid impacting on neighbouring property are discussed in Section 7 of this report.

Potential climate change sensitivity assessment

The DRAINS model which represents the post development site was re-run with a 20 per cent increase in 100 year ARI rainfall intensities to represent potential climate change sensitivity with respect to site discharges. The modelling results indicate that in a 100 year ARI event:

• Site water levels may increase by around 0.2 metres.

 Maximum site discharges from the two eastern outlets would not exceed existing condition maximum 100 year ARI discharges. For the single western outlet, the model indicates an increase in site discharge (compared to the existing condition) of 14.7-cubicmetres per second compared with 12.7-cubic-metres per second, however, additional survey information along Moorebank Avenue (to allow more accurately spill levels and length), may alter this result.

DRAINS model inputs and outputs are included in Appendix A.

5.2 Water quality

5.2.1 Stormwater quality objectives and treatment targets

The stormwater runoff quality objectives and treatment targets for the SIMTA proposal have been determined according to the Liverpool Development Control Plan 2008 (general controls and controls applicable to Moorebank Defence Lands). These include the following.

Objectives

- To prevent adverse impact on receiving environments which may be caused by the flow from the SIMTA site.
- Prevent bed and bank erosion and instability of waterways.
- Provide sufficient flows to support aquatic environments and ecological processes.
- To make certain that Water Sensitive Urban Design principles are appropriately applied to the SIMTA site.

Performance targets

- Ninety per cent reduction in the post development average annual gross pollutant load.
- Eighty per cent reduction in the post development average annual load of Total Suspended Solids load.
- Forty-five per cent reduction in the post development average annual load of Total Phosphorus load.
- Forty-five per cent reduction in the post development average annual load of Total Nitrogen load.
- Maximise water conservation through the use of water efficient devices and re-use of rainwater for non-potable water demands.

5.2.2 Proposed stormwater quality measures

A number of stormwater quality measures are proposed to be implemented as part of the SIMTA proposal to meet the set treatment targets. These include the following.

Rainwater tanks

Rainwater tanks are required to meet the water conservation controls set by Liverpool City Council's Liverpool Development Control Plan (2008) for development in Moorebank Defence Lands and also to satisfy sustainability building requirements.

Rainwater tanks will be used to collect roof water from the site's warehouses to be used for nonpotable water demands for toilet flushing and for outdoor use. All rainwater tanks are assumed to have a first-flush device to capture gross pollutants and sediments which may have accumulated on the roof. Rainwater tanks also provide stormwater treatment through settling and harvesting in addition to their main purpose of providing alternative source of water for nonpotable water uses.

Initial sizing for the proposed rainwater tanks is based on providing the estimated non-potable water demands for a period of 20 days. The non-potable water demands for the proposed warehouses were about 60 per cent of the total water use of these buildings. The population for each warehouse was around one person per 20-squared-metres using an average of 20 litres per person per day (VIC EPA Code of Practice for Small Wastewater Treatment Plants (1997). The proposed rainwater tank sizes for the various catchments of the site are presented in Table 4.

Pre-treatment

Buffer strips

Buffer strips are source control measures used to pre-treat stormwater runoff before it reaches the main treatment measures such as rain gardens and bio-swales. Buffer strips are vegetated areas adjacent to drainage lines that intercept diffused stormwater runoff from impervious areas before it reaches the treatment measures, thus removing coarse to medium sized suspended solids and associated nutrients. Buffered areas for the various catchments of the site are presented in Table 4.

Gross pollutant traps

A gross pollutant trap is a treatment device designed to capture coarse sediment, trash and vegetation matter carried in the stormwater. No removal of suspended solids and nutrients has been assumed to be associated with GPTs.

Bio-retention systems

Rain gardens

Rain gardens are bio-retention systems that comprise a combination of vegetation and filter substrate, which provide treatment of stormwater through filtration, extended detention and some biological uptake. They are very effective in stormwater pollutant removal, especially when associated with a submerged zone, which provides a permanent pool of water at the bottom of the system that helps to maintain a healthy plant community. Rain gardens are proposed to treat runoff from the majority of the site in an integrated structure that provides for OSD storage in addition to water quality treatment.

Bio-swales

Bio-swales are bio-retention systems that perform similarly to rain gardens but are generally associated with a longitudinal gradient. Thus they provide runoff conveyance in addition to the water quality treatment through filtration, extended detention and biological uptake. The proposed bio-swales for the Moorebank site have fairly flat gradient. Thus they provide extended detention during their normal operation, with excess runoff discharging to overflow pits. No OSD storage will be provided as part of the proposed bio-swales.

Lining

In general, bio-retention systems are lined either to protect adjacent structures or if the site has known salinity hazards. There are no known risk associated with salinity on the Moorebank site as indicated by the salinity hazard risk map of NSW produced by the Department of Environment and Climate Change. However, as the site's soils are predominantly clays and sandy clays associated with shrinkage and differential settlement, lining of the bio-retention systems may be required when they located next to footings of structures such as retaining walls and buildings.

The proposed rain garden and bio-swale areas for the various catchments of the site are presented in Table 4. Typical details are presented in the drawings associated with this report.

Catchment	Rainwater Tank (kL)	Buffer Area (m²)	Rain Garden/ filter area (m ²)	Bio-swale/ filter area (m ²)
A1 (27.178 ha)	2083	1963	6960/4640	
A2 (3.506 ha)	0	525		1656/1035
B1 (13.477 ha)	1132	808	3200/4800	
B2 (3.059 ha)	0	459		1152/720
C (35.714 ha)	857	1714	5000/5000	

Table 4: Proposed stormwater quality treatment measures for the site

Rain garden and bio-swale areas are "average", the area is measured at half of the extended detention depth. Refer to Drawing CP022 for WSUD catchment plan.

5.2.3 Assessment methodology

Assessment of the performance of the proposed stormwater quality measures has been undertaken using the Model for Urban Stormwater Improvement Conceptualisation (MUSIC V4.0). A MUSIC model for the SIMTA site has been developed assuming that the site has industrial land use with imperviousness shown in Table 5. The MUSIC model layout and key modelling parameters are included in Appendix C.

Catchment	Land use	Land Use area (ha)	Land use imperviousness
A1	Roof	17.359	100%
(27.178 ha)	Pavement to buffer	3.930	100%
	Pavement to GPT	5.892	100%
A2	Roof	0	
(3.506 ha)	Pavement to buffer	3.506	100%
	Pavement to GPT	0	
B1	Roof	9.434	100%
(13.477 ha)	Pavement to buffer	1.617	100%
	Pavement to GPT	2.426	100%

Table 5: MUSIC model land use for the site

Catchment	Land use	Land Use area (ha)	Land use imperviousness
B2	Roof	0	
(3.059 ha)	Pavement to buffer	3.059	100%
	Pavement to GPT	0	
С	Roof	7.143	100%
(35.714 ha)	Pavement to buffer	11.428	100%
	Pavement to GPT	17.143	100%

5.2.4 Results and comments

Based on the proposed stormwater quality measures the treatment performance for each catchment and the whole site is presented in Table 6.

In summary, the water quality assessment methodology and treatment performance of the proposed WSUD measures is understood to comply with the treatment targets according to the Liverpool Development Control Plan (2008).

Catchment	Pollutant reduction					
	Gross pollutants (%)	TSS (%)	TP (%)	TN (%)		
Δ		. ,	. ,	. ,		
A	100	91.7	76.8	61		
В	100	94.0	80.8	67.8		
С	100	86.6	71.6	46.4		
Total site	100	89.1	74.7	55.9		
Treatment targets	90	80	45	45		

Table 6: Treatment performance summary for the site

6 Anzac Creek floodplain modelling

Following the initial DRAINS modelling of on-site detention (OSD) the Post Development site flow hydrographs were used as inputs into a TUFLOW model of Anzac Creek to identify potential impacts extending along Anzac Creek, and if necessary revised OSD requirements. This assessment process and findings are discussed as follows.

6.1 Background

Existing condition flow regimes along Anzac Creek have been previously determined by Liverpool City Council in the process of conducting their Anzac Creek Floodplain Risk Management Study and Plan (by BMT WBM Pty Ltd, 30 May 2008), and the Georges River Floodplain Risk Management Study & Plan (by Bewsher Consulting, May 2004). The council modelling indicates that only the 100 year ARI and larger events along Anzac Creek impact on the subject site, as such only the 100 year ARI and PMF events have been assessed, although this has also included examining potential Climate Change flow regimes.

The RAFTS catchment rainfall runoff model files developed for the abovementioned studies were obtained from council. The provided files were re-run by Hyder and the hydrographs for both the 100 year ARI nine-hour event and PMF nine hour event used in the studies were replicated.

Council also provided to Hyder the 100 year ARI nine hour event and PMF one hour event TUFLOW model files. The provided files were re-run by Hyder and the council's 100-year nine hour results were reproduced. PMF TUFLOW results were not provided by council, nonetheless the provided files were used in developing an adjusted 'existing conditions' Anzac Creek model, as described in Section 6.2.

Council provided a number of TUFLOW run files incorporating various degrees of blockage for structural elements across the system. For the purposes of this regional assessment, the 25 per cent scenario was adopted as a base and amended for this study as described following. The modelling process and results are described as follows.

6.2 Existing conditions

6.2.1 Hydrology

Council's RAFTS model catchments were adjusted to exclude the subject site, which has been more accurately defined in the site drainage assessment DRAINS software (as discussed in the earlier sections of this report). Hence hydrographs generated from the RAFTS and DRAINS models have been used as flow inputs for TUFLOW modelling to define flow regimes as discussed below. RAFTS model input data and output are included in Appendix D.

6.2.2 Flow regimes

The 100 year ARI nine hour duration hydrographs from the DRAINS and adjusted RAFTS models have been used to assess flow regimes along Anzac Creek, in accordance with the files provided by council, in TUFLOW. Similarly, an adjusted existing conditions PMF one hour event model has also been assessed in TUFLOW using DRAINS and adjusted RAFTS hydrograph inputs.

The adjusted existing condition TUFLOW model flow regime figures (for 100 year and PMF conditions) are included in Appendix E. The 100 year results were compared with that of Council's and flood level variations found to generally vary by less than 0.025 metres.

The adjusted existing conditions model has been adopted as a base for comparing potential impacts in Anzac Creek due to the SIMTA site development.

6.3 Post development conditions

6.3.1 Hydrology

Hydrographs generated from the SIMTA site development conditions DRAINS model of the site have been used as input into the TUFLOW modelling, in conjunction with existing conditions RAFTS model hydrographs which represent the Anzac Creek catchment areas external to the subject site.

6.3.2 Flow regimes

Using the 100 year ARI nine hour event hydrographs from the initial proposed conditions DRAINS modelling, TUFLOW modelling indicated potential water level increases of up to around 0.05 metres. As such on-site storage in the north-eastern portion of the site was increased from 28,500-cubic-metres to 35,000-cubic-metres in the DRAINS modelling, and the TUFLOW model re-run and the potential flood level increases were seen to be reduced.

The TUFLOW model was then also re-run for the PMF one hour event. The modelling results for these assessments are included in Appendix E.

With respect to potential flood impacts on the Anzac Creek floodplain the results indicate that:

- Flood level increases would be limited to less than five millimetres in the100 year ARI nine hour event. (Management of local catchment flows directly neighbouring the site are discussed in the 'Civil Design Options', Section 7, of this report.)
- For the PMF one hour event, the proposed site raising would result in flood level increases of up to 0.25 metres immediately south of the site. Since this area to the south is largely undeveloped there is little current implication for this neighbouring area. Further downstream, to the north of the southern site boundary, flood level increases are limited to no more than five millimetres.

It is anticipated that the OSD storage increase could be achieved by reconfiguring the concept channel as outlined in Figure 5, reconfiguring the pond (located in the northern area of the site), and raising the north-eastern area ground levels by around 0.2 metres (as indicated in the design option drawings).

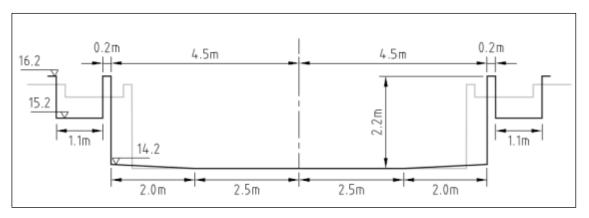


Figure 5: Typical channel section for increased NE site detention

SIMTA Moorebank Intermodal Terminal Facility—Flood Study and Stormwater Management Hyder Consulting Pty Ltd-ABN 76 104 485 289

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7 Civil design options

This assessment was carried out to indicate civil design options for the purpose of mitigating potential adverse flooding and stormwater impacts on the local land holders that immediately neighbour the site. In particular, modelling of existing and post development site conditions (and the immediately surrounding areas):

- Quantifies within site flood levels along the SIMTA site development main trunk drainage channels.
- Flow regimes in the vicinity of the north-eastern corner of the site.

For this assessment the lumped catchments adopted in the initial DRAINS model were further subdivided into smaller local catchment areas. The DRAINS model discharges were then incorporated into a TUFLOW model of the site and its immediate surrounds. These 'site only' DRAINS and TUFLOW models firstly represented existing development conditions, and were then adjusted to represent the 'alternative post development' developable area conditions.

Sketches of the areas where the initial civil design are to be modified to limit flood impacts on the local neighbouring properties are included in the accompanying Drawings, and are intended as a guide for future design decisions and detailing.

While the accompanying Drawings indicate options to mitigate adverse flood impacts on the neighbouring properties in events up to 100 year ARI, the design options would not, however, offset potential flood increases in all larger events, as indicated in the probable maximum flood results figures included in Appendix G.

7.1 Existing and proposed conditions modelling

7.1.1 DRAINS

Details of the further catchment subdividing of the initial DRAINS model is provided in Appendix F and the 100 year ARI hydrographs then served as inputs for the site-based TUFLOW model.

7.1.2 TUFLOW

A TUFLOW model was developed to represent the site itself, first for existing conditions then for a representation of the proposed site development. Sufficient model detail has been provided to specifically represent flow regimes:

- In the north-eastern corner of the site where the neighbouring property and Greenhills Road flows enter the site via an open channel before discharging under Greenhills Road via culvert "Outlet A".
- Within the site itself along the proposed main channel systems.

The TUFLOW model input data and result figures are included in Appendix G. The 100 year ARI results figures indicate that:

- In the north-eastern corner of the site (where the neighbouring property and Greenhills Road flows enter the site via an open channel before discharging under Greenhills Road via culvert "Outlet A") the existing open channel is to be retained to avoid potential adverse flood impacts on Greenhills Road the neighbouring areas to the north and east.
- Adopting bridge crossings that span the main channels, there is less than a 0.1 metres water surface gradient along the proposed main channels in the site.

- To accommodate minor internal site drainage systems for up to 100 year capacity consideration further consideration of site levels will be necessary.
- Platform levels in the south-eastern portion of the site are likely to require raising by around 0.4 metres (due to the 100 year ARI flood levels of up to 16.3 metres AHD in the channel/OSD, and the outlet to the Greenhills Road system, 'Outlet B', being partially submerged under 100 year ARI conditions).

7.2 Management of external catchments

In general, maximising the developable site area (represented by the accompanying concept civil drawings, and discussed previously in Section 5 of this report) would potentially impact on neighbouring property flooding and require negotiation with neighbouring landholders (with respect to obtaining drainage easements).

The specific locations of potential impact are discussed below, and indicative 'civil design options' sketches of the areas where the current concept civil design may be modified to limit flood impacts on the local neighbouring properties are included in the accompanying Drawings.

7.2.1 Southern site boundary

Along the southern boundary of the site the concept civil design provides for a buffer about two metres wide at existing ground levels between the raised development platform and the site boundary. This southern buffer width requires widening as indicated in the accompanying Drawings. Such widening is to allow for the following.

- Under existing conditions the external south-western catchment discharges into the site. The proposed site filling requires a flow path to be provided that would convey flows westward to a Moorebank Avenue southbound carriageway drainage system.
- Under existing conditions the external south eastern catchment discharges into the site. The proposed site filling requires a flow path to be provided that would convey flows eastward to the existing Greenhills Road ('Outlet B') culvert.

7.2.2 Western site boundary

The existing drainage system serves the western portion of the site also several external catchment areas (the southern external catchment discussed above, a local carpark area to the west of Moorebank, and Moorebank Avenue itself). This existing channel is to be replaced under the current concept civil design by internal site drainage systems. In addition, it is likely that a new channel/culvert system (located within the site) will be necessary to convey runoff from the neighbouring areas along the western site boundary to the existing twin box culverts at "Outlet C" near the north-western corner of the site. Indicative sketches are included in the accompanying Drawings.

7.2.3 Northern site boundary

Along the northern boundary of the site, areas of neighbouring land discharge into the site and are to be conveyed within the site via channel or culvert systems to the existing north-western and north-eastern outlets ("Outlets C" and "Outlet A" respectively). Indicative sketches are included in the accompanying Drawings.

7.2.4 Eastern site boundary

In the north-east corner of the site, current civil design builds over an existing open channel (replacing it with a culvert) that conveys flows to the existing Greenhills Road culvert ("Outlet A"). To avoid adverse flood impacts on neighbouring property it will be necessary to retain the exiting open channel. Indicative sketches are included in the accompanying Drawings.

The accompanying Drawings also include sketches which indicate the management of neighbouring property flows that discharge to the south-eastern culvert ("Outlet B"), and a two metre wide stormwater corridor along the eastern boundary to allow the capture of Greenhills Road runoff.

8 Evacuation and refuge

A flood emergency response plan for the site will be necessary.

The TUFLOW site model results for Anzac Creek (see Appendix E, SIMTA site development) indicates that filling will raise the site above the regional PMF flood levels.

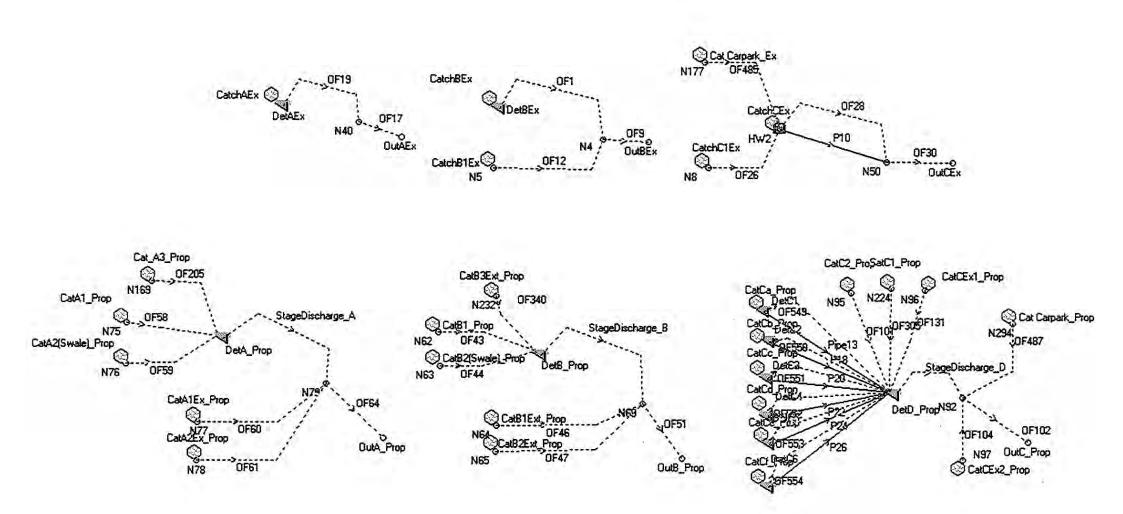
The site is located within upper catchment areas and, as recognised in the NSW Floodplain Management Manual (April 2005, Section L6.2), there would be little if any available warning time for people to undertake action. As such, in developing an evacuation and refuge plan it should include a refuge within the proposed buildings until hazardous flows have subsided and safe evacuation is possible.

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Appendix A

Initial DRAINS model input and output – existing and proposed conditions

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DRAINS Input Data

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	INCOSE	(ha)	196	W.	P/	(min)	(min)	(min)	(m))(m)	(m)	%	14	%	i tongi	Transfer 1	rear Burle	A TONIGHT	(m) 9	6	Din Datos
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CatchC1Ex CatchBEx CatchAEx CatB1_Prop CatB2(Swale)_Prop	N8 DetBEx DetAEx N62 N63	1.073 2.431 26.052 27.453 13.477 3.059	81.8 33.4 50 100	18. 166. 16		3 3 7 5 14.5 7 13.75 6 6 7 9.5	2	8 7 4 5 3 5										0 0 0 0 0 0			
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Catence 1Ex Catence 2x C	N8 Def8Ex Def8Ex N62 N62 N62 N63 N64 N76 N77 N78 Def011 Def012 Def011	1.073 2.431 26.052 27.453 13.477 3.055 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.572 3.3777 3.3777 3.37777 3.377777777	e1,8,3,4 33,4 2,33,4 350 1000 100 1000 0 1000 0 1000 100 1000 100 1000 100 1000 100 1000 1000 1000	1 18.0 1 66.0 1 66.0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	2 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 0 7 14.5 3.76 0 6 0.5 5 0 5.5 0 5.5 0 5.5 0 5.5 0 7.7 0 3.3 0 3.3 0 3.3 0 3.3 0 3.3 0 3.3 0 3.3 0 2.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5 5.5 5	2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	8] (7 7) (6 4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Control Contro	Rough	Pipe is Existing Existing	No, Pipes	DelC1 DetC2		(m) 0 0	RI	Crog 1 (m) (etc (m)		
Catence 1Ex Catence 2x C	N8 Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex N62 N63 N64 N65 N65 N76 N77 N78 Der62 Der63 Der64 N37 N385 N37 N224 N224 Parm Der61 Der62	1,073 2,433 26,052 27,453 13,477 3,055 3,055 3,505 3,505 3,505 3,505 3,505 3,507 3,377 3,371 3,373 3,3	1 81.8 2 33.4 3 55 1000 1000 0 0 1 100 1	1 12.1 1 56. 1 56. 1 50. 1 100. 1	2 0 0 6 10 0 0 0 0 0 0 0	3 3 2) 7 2) 7 2) 13.7 2) 13.7 2) 3.6 3) 5 5) 5 5) 5 2) 13.2 2) 13.2 2) 33 3) 3 3) 3 3) 3 3) 5 3) 5 3) 5 3) 7 7) 33 5 5 5 5 5 5 6 3 7 7 3) 5 3) 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 1 8 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	81 77 74 75 75 75 75 75 75 75 75 75 75 75 75 75	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	Rough 0.3 0.3 0.3	Pipe is Existing Existing	No. Prpes	DetC1 DetC2 DetC3		(m) 0 0 0	RI ((m))	Crg I (m) (1		etc (m)		
Catence 1Ex Catence Xx Catence Yrop Catence Yrop <td>N8 Der0Ex Der0Ex Der0Ex Der0Ex Der0Ex N62 N62 N63 N64 N85 N76 N77 N77 N77 Der02 Der03 Der02 Der03 Der02 Der02</td> <td>1.073 2.431 26.052 27.455 13.477 3.055 3.055 3.505 3.505 3.505 3.502 3.3777 3.3777 3.3777 3.37777 3.37777 3.377777777</td> <td>1 61.8 2 33.4 2 33.4 3 50 100 50 100 0 100 0 100 0 100 10</td> <td>1 12.0 1 166.0 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 1</td> <td>2 () () () () () () () () () (</td> <td>3 3 2) 7 2) 7 2) 7 2) 7 2) 14.5 2) 32 3) 5 3) 5 3) 3</td> <td>2 7 8 7 8 7 7 8 7 7 8 8 8 7 7 8 8 7 7 8 8 7 8 8 8 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>81 17 71 17 64 17 85 17 85 17 85 17 88 17 10 17 11 17 10 17 11 17 11</td> <td>))))))))))))))</td> <td>Rough 0.3 0.3 0.3</td> <td>Pipe is Existing Existing Existing</td> <td>No. Pypes 2 2 2 2 2 2</td> <td>DetC1 DetC2 DetC3 DetC4</td> <td></td> <td>(m) 0 0 0</td> <td>RI (M)</td> <td>Crg I</td> <td></td> <td>etc (m)</td> <td></td> <td></td>	N8 Der0Ex Der0Ex Der0Ex Der0Ex Der0Ex N62 N62 N63 N64 N85 N76 N77 N77 N77 Der02 Der03 Der02 Der03 Der02 Der02	1.073 2.431 26.052 27.455 13.477 3.055 3.055 3.505 3.505 3.505 3.502 3.3777 3.3777 3.3777 3.37777 3.37777 3.377777777	1 61.8 2 33.4 2 33.4 3 50 100 50 100 0 100 0 100 0 100 10	1 12.0 1 166.0 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 1	2 () () () () () () () () () (3 3 2) 7 2) 7 2) 7 2) 7 2) 14.5 2) 32 3) 5 3) 5 3) 3	2 7 8 7 8 7 7 8 7 7 8 8 8 7 7 8 8 7 7 8 8 7 8 8 8 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	81 17 71 17 64 17 85 17 85 17 85 17 88 17 10 17 11 17 10 17 11))))))))))))))	Rough 0.3 0.3 0.3	Pipe is Existing Existing Existing	No. Pypes 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4		(m) 0 0 0	RI (M)	Crg I		etc (m)		
GatenC1Ex CatenAEx	N8 Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex N62 N64 N65 N65 N65 N65 N76 N77 N78 Der62 Der63 Der64 Der62 Der62 Der63 Der64 Der65 Der64 Der65 Der64 Der65 Der62 Der62 Der62 Der62 Der62 Der62 Der62 Der62	1.073 2.433 26.052 27.453 13.477 3.055 3.055 3.505 3.505 3.505 3.505 3.505 3.507 3.377 3.371 3.313 3.513 3.513 3.222 3.615 2.294 2.316 2.315 2.294 2.315 2.294 2.295 2.2	1 81.8 1 33.4 2 33.4 3 50 1000 1000 0 0 0 0 1 100 46 50 5 0 1 100 1 <t< td=""><td>1 12.1 1 66.1 1 66.1 1 60.1 1 10 1 11 1 11</td><td>2 0 0 6 10 0</td><td>3 3 2) 7 2) 7 2) 13.7 2) 13.6 3) 3.6 5) 5 5) 5 5) 5 5) 6 2) 13.2 2) 13.2 2) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.0 5) 5 5) 5 5) 5 5) 5 5)</td><td>2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2</td><td>8] (7) 7] (7) 6] (7) 6] (7) 7] (7) (7) 7] (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)</td><td>D D D D D D D D D D D D D D D D D D D</td><td>Rough 0.3 0.3 0.3 0.3 0.3</td><td>Pipe is Existing Existing Existing Existing Existing</td><td>No. Pypes 2 2 2 2 2 2 2 2</td><td>DetC1 DetC2 DetC3 DetC4 DetC5</td><td></td><td>(m) 0 0 0 0 0</td><td>RI (M)</td><td>Crog I ((m) (</td><td></td><td>etc</td><td></td><td></td></t<>	1 12.1 1 66.1 1 66.1 1 60.1 1 10 1 11 1 11	2 0 0 6 10 0	3 3 2) 7 2) 7 2) 13.7 2) 13.6 3) 3.6 5) 5 5) 5 5) 5 5) 6 2) 13.2 2) 13.2 2) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.3 3) 3.0 5) 5 5) 5 5) 5 5) 5 5)	2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2	8] (7) 7] (7) 6] (7) 6] (7) 7] (7) (7) 7] (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	D D D D D D D D D D D D D D D D D D D	Rough 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4 DetC5		(m) 0 0 0 0 0	RI (M)	Crog I ((m) (etc		
GatenC1Ex CatenAEx	N8 Def8Ex Def8Ex N62 N62 N62 N64 N65 N76 N77 N77 N77 Def02 Def03 Def02 Def02 Def02 Def02 Def02 Def02 Def02 Def02 Def02 N224 N224 N224 N224 N224 N224 Def02 Def02 Def02 Def02 Def03	1,073 2,433 26,052 27,453 13,477 3,059 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,507 3,377 3,3	1 87.8 2 33.4 2 33.4 3 50 100 100 1 0.0 1 0.0 1 0.0 1 100 1	1 12. 1 166. 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 11 1 11 1 11 1 11 1 11 1 11 1 11	2 0 0 6 0 0 0 0 0 0	3 3 2 7 13.7 3 3 3.7 5 6 9.5 6 1.13.7 6 9.5 5 1.6 5 1.12 13.2 1.12 13.2 1.13 3 1.13 3 1.13 3.3 1.13 <td>2 3 3 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 8 7 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>8 7 7 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>D D D D D D D D D D D D D D D D D D D</td> <td>Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3</td> <td>Pipe is Existing Existing Existing Existing Existing Existing Existing</td> <td>No. Pypes 2 2 2 2 2 2 2 2</td> <td>DetC1 DetC2 DetC3 DetC4 DetC5</td> <td></td> <td>(m) 0 0 0</td> <td>RI ((K))</td> <td>Crg ! (m) [</td> <td></td> <td>etc (m)</td> <td></td> <td></td>	2 3 3 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 8 7 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	8 7 7 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	D D D D D D D D D D D D D D D D D D D	Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4 DetC5		(m) 0 0 0	RI ((K))	Crg ! (m) [etc (m)		
Catence 1Ex Catence Xx Catence Yrop Catence Yrop <td>N8 Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex N62 N64 N65 N65 N65 N65 N76 N77 N78 Der62 Der63 Der64 Der65 Der64 Der62 Der63 Der64 Der65 Der65 Der62 Der62 Der62 Der62 Der63 Der64</td> <td>1.073 2.433 26.052 27.453 13.477 3.055 3.055 3.505 3.505 3.505 3.505 3.505 3.507 3.377 3.371 3.313 3.513 3.513 3.222 3.615 2.294 2.316 2.315 2.294 2.315 2.294 2.295 2.2</td> <td>ena ena 2 33.4 3 35.4 5 500 1000 0 0 0 1000 0 1000 0 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 0 1000 1000 1000 1000 1000 1000 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000</td> <td>1 12. 1 166. 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 11 1 11 1 11 1 11 1 11 1 11 1 11</td> <td>2 0 0 6 0 0 0 0 0 0</td> <td>3 3 2 7 13.7 3 3 3.7 5 6 9.5 6 1.13.7 6 9.5 5 1.6 5 1.12 13.2 1.12 13.2 1.13 3 1.13 3 1.13 3.3 1.13<td>2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2</td><td>8] (7) 7] (7) 6] (7) 6] (7) 7] (7) (7) 7] (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)</td><td>D D D D D D D D D D D D D D D D D D D</td><td>Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3</td><td>Pipe is Existing Existing Existing Existing Existing</td><td>No. Pypes 2 2 2 2 2 2 2 2</td><td>DetC1 DetC2 DetC3 DetC4</td><td></td><td>(m) 0 0 0 0 0</td><td>Ri</td><td>Crg ! (m) (</td><td></td><td>etc (m)</td><td></td><td></td></td>	N8 Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex N62 N64 N65 N65 N65 N65 N76 N77 N78 Der62 Der63 Der64 Der65 Der64 Der62 Der63 Der64 Der65 Der65 Der62 Der62 Der62 Der62 Der63 Der64	1.073 2.433 26.052 27.453 13.477 3.055 3.055 3.505 3.505 3.505 3.505 3.505 3.507 3.377 3.371 3.313 3.513 3.513 3.222 3.615 2.294 2.316 2.315 2.294 2.315 2.294 2.295 2.2	ena ena 2 33.4 3 35.4 5 500 1000 0 0 0 1000 0 1000 0 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 0 1000 1000 1000 1000 1000 1000 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000 0 1000	1 12. 1 166. 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 11 1 11 1 11 1 11 1 11 1 11 1 11	2 0 0 6 0 0 0 0 0 0	3 3 2 7 13.7 3 3 3.7 5 6 9.5 6 1.13.7 6 9.5 5 1.6 5 1.12 13.2 1.12 13.2 1.13 3 1.13 3 1.13 3.3 1.13 <td>2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2</td> <td>8] (7) 7] (7) 6] (7) 6] (7) 7] (7) (7) 7] (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)</td> <td>D D D D D D D D D D D D D D D D D D D</td> <td>Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3</td> <td>Pipe is Existing Existing Existing Existing Existing</td> <td>No. Pypes 2 2 2 2 2 2 2 2</td> <td>DetC1 DetC2 DetC3 DetC4</td> <td></td> <td>(m) 0 0 0 0 0</td> <td>Ri</td> <td>Crg ! (m) (</td> <td></td> <td>etc (m)</td> <td></td> <td></td>	2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 2 1 2	8] (7) 7] (7) 6] (7) 6] (7) 7] (7) (7) 7] (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	D D D D D D D D D D D D D D D D D D D	Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4		(m) 0 0 0 0 0	Ri	Crg ! (m) (etc (m)		
GatenC1Ex CatenBEx <	N8 Def8Ex Def8Ex N62 N62 N62 N64 N65 N76 N77 N77 N77 Def02 Def03 Def02 Def02 Def02 Def02 Def02 Def02 Def02 Def02 Def02 N224 N224 N224 N224 N224 N224 Def02 Def02 Def02 Def02 Def03	1,073 2,433 26,052 27,453 13,477 3,059 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,505 3,507 3,377 3,3	1 87.8 2 33.4 2 33.4 3 50 100 100 1 0.0 1 0.0 1 0.0 1 100 1	1 12. 1 166. 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 11 1 11 1 11 1 11 1 11 1 11 1 11	2 0 0 6 0 0 0 0 0 0	3 3 2 7 13.7 3 3 3.7 5 6 9.5 6 1.13.7 6 9.5 5 1.6 5 1.12 13.2 1.12 13.2 1.13 3 1.13 3 1.13 3.3 1.13 <td>2 3 3 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 8 7 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>8 7 7 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>D D D D D D D D D D D D D D D D D D D</td> <td>Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3</td> <td>Pipe is Existing Existing Existing Existing Existing Existing Existing</td> <td>No. Pypes 2 2 2 2 2 2 2 2</td> <td>DetC1 DetC2 DetC3 DetC4 DetC5</td> <td></td> <td>(m) 0 0 0 0 0</td> <td>Ri (m)</td> <td>Crog [[(m)]</td> <td></td> <td>etc (m)</td> <td></td> <td></td>	2 3 3 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 8 7 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	8 7 7 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	D D D D D D D D D D D D D D D D D D D	Rougn 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4 DetC5		(m) 0 0 0 0 0	Ri (m)	Crog [[(m)]		etc (m)		
Catence 1Ex Catence 1Ex Catence 1	N8 DerdEx DerdEx DerdEx N62 N62 N64 N83 N64 N76 N77 N78 DertC1 DertC3 DertC4 DertC3 DertC4 DertC5 DertC4 DertC5 DertC4	1.073 2.431 26.052 27.453 13.477 3.065 3.505 24.788 3.506 6.611 0.785 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.377 3.377 3.377 3.371 3.373 3.373 3.373 3.373 3.373 3.373 3.322 3.565 2.4788 2.478 2.245 2.045 2.245 2.045 2.245 2	e1,8,3 2,33,4 36,35 100 0 0 100 0 0 0 1000 <	1 12. 1 166. 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 11.4 1 11.4	2 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 0 7 14.5 7 13.75 6 9 5 5 5 5 6 13.75 5 5 5 5 5 13.25 6 13.25 3 13.25 3 13.23 3 13.23 3 13.33 3 13.33 3 13.33 3 13.33 3 13.33 3 13.33 3 14.33 3 15.35 5 16.35 5 17.75 3 10.05 3 10.05 3 10.05 3 10.05 3 10.05 5 10.05 5 10.05 5 10.05 10.05 10.05 10.05	2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	8 7 7 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5)))))))))))))))))))	Rough 0.3 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4 DetC5		(m) 0 0 0 0 0	RI (M)	Cng []		etc (m)		
GatenC1Ex CatenBEx <	N8 Def8Ex Def8Ex N62 N62 N62 N64 N65 N76 N77 N77 N77 Def02 Def03 Def02 Def02 Def02 Def02 Def02 Def02 Def02 Def02 Def02 N224 N224 N224 N224 N224 N224 Def02 Def02 Def02 Def02 Def03	1.073 2.431 26.052 27.453 13.477 3.055 3.505 3.505 3.505 3.506 3.506 3.506 3.507 3.377 3.371 3.323 3.616 2.336 2.433 3.512 2.904 2.2431 2.236 2.245 2.	1 81.8 2 33.4 3 55 1000 1000 1 0 0 0 1 0 1 0 1 1000	1 12. 1 166. 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1 11.4 1 11.4	2 0 0 6 10 0 100	3 3 2 7 13.70 6 3 6 3 5 5 5 6 9.5 14.5 6 9.5 5 5 5 13.2 0 2 13.2 2 3 3 3 3 3 3 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 6 3 7 3 5 3 7 3 5 3 7 3 5 5 5 5 5 5	2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	8] (7) 7) (7) 7) (7) 6) (7) 7) (7) 7) (7) (7) (7) 7) (7) (7) (7) (7) (7) (7) (7) (7) (7) (D D D D D D D D D D D D D D D D D D D	Rough 0.3 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4 DetC5		(m) 0 0 0 0 0	RI (m)	Cng I (m) I		etc (m)		
Catence 1Ex Catence 1Ex Catence 1	N8 Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex Der6Ex N85 Nr83 N85 Nr84 N85 Nr75 N77 Nr76 Der62 Der62 Der62 Der62 Der62 Der62 N85 Nr87 N86 N87 N87 N86 N87 N77 N224 N224 N224 N224 Parm Der61 Der62 Der63 Der64 Der65 Der65 Der64 Der65 Der66 HW2 Parc66 HW2 Parc66	1.073 2.431 26.052 27.453 13.477 3.065 3.505 24.788 3.506 6.611 0.785 3.562 3.562 3.562 3.562 3.562 3.562 3.562 3.377 3.377 3.377 3.371 3.373 3.373 3.373 3.373 3.373 3.373 3.322 3.565 2.4788 2.478 2.245 2.045 2.245 2.045 2.245 2	1 81.8 2 33.4 3 55 1000 1000 1 0 0 0 1 0 1 0 1 1000	1 12. 1 1 56. 1 1 56. 1 1 50. 5 1 10 1 11 1 11	2 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 2 7 13.70 6 3 6 3 5 5 5 6 9.5 14.5 6 9.5 5 5 5 13.2 0 2 13.2 2 3 3 3 3 3 3 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 6 3 7 3 5 3 7 3 5 3 7 3 5 5 5 5 5 5	2 1 1 2 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	81 77 77 77 77 77 77 77 77 77 77 77 77 77	Image: Control of Service Height of Service	Rough 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	Pipe is Existing Existing Existing Existing Existing Existing Existing	No. Pypes 2 2 2 2 2 2 2 2	DetC1 DetC2 DetC3 DetC4 DetC5		(m) 0 0 0 0 0	R!	Cng [] (m) (etc (m)		

DRAINS Input Data

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DRAINS Mode				D-Calculations)	C-Civil\Stormv	valer/DRAINS)	Moorebank.dr	n		
DRAINS Version: Modeller's Name:		2010.09 - 5 A Chris McClell								
personal states of the second		Moorebank O								
DRAINS results pres	pared 02 Sept	ember, 2010 fr	om Version 20	0.09					RESU	
DIT I NODE DETAIL	L			Manufactor C.						
PIT / NODE DETAIL Name	Max HGL	Max Pond	Max Surface	Version 8 Max Pond	Min	Overflow	Constraint		2 YEAF	ARI
14¢1110	Max HOL	HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)	CONSUBAL			1
			(cu.m/s)	(cu.m)	(m)	1	1			
HW2	12.34	5.744			1.86	0	None			-
N50	11.97	ļ	0							
SUB-CATCHMENT	OFTAILS		·	-						
	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm			
	Flow Q	Max Q	Max Q	To	To	To				
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)	T. T	Ht		
CatchB1Ex	0.185			3	8			, 2 hours storm, average 22		
CatchC1Ex Catch8Ex	0.617	0.542	0.076	7	7			25 minutes storm, average		
CatchAEx	4.115	3.019	1.136	14,5	15			, 2 hours storm, average 22 , 25 minutes storm, average		
Cat81_Prop	3.805	3.805	0	6				25 minutes storm, average		
Cat82(Swale)_Prop	0.785	0.785	0	9.5	8.5			, 25 minutes storm, average		
CalB1Ext_Prop	0,185	0	0.185	5	8	-		2 hours storm, average 22		
Cat82Ext_Prop	0.06	0	0.06	8.5	15.5			2 hours storm, average 22		
CatA1_Prop CatA2(Swale) Prop	7.002	7.002	0	6				, 25 minutes storm, average , 25 minutes storm, average		1
CalA1Ex_Prop	1.185	0.682	0.512	12	8.3			, 25 minutes storm, average		
CatA2Ex_Prop	0.076		0.076	0				1 hour storm, average 33.2		1
CatCa_Prop	1.078	1.078	0	3	0	0	AR&R 2 year	5 minutes storm, average	109 mm/h, Zone 1	1
CetCb_Prop	1,022	1.022	0	All and a second s		and a sector of the sector of		, 5 minutes storm, average		
CatCc_Prop CatCd_Prop	1.021	1.021	0			the second se		5 minutes storm, average		
CatCe_Prop	0.979	0.979	0	3				5 minutes storm, average		
CatCf_Prop	1.095	1.095	0	3				5 minutes storm, average		-
CatC2_Prop	3,907	3.907	0	3	0	0	AR&R 2 year	, 5 minutes storm, average	109 mm/h, Zone 1	
CalCEx1_Prop	0.617	0.542	0.076	7	7			, 25 minutas storm, average		
CatCEx2_Prop	0.268	0.197	0.087	21.7	25			, 1.5 hours storm, average 2		
Cat_A3_Prop Cat Carpark_Ex	0.721	0.721	0	3				, 5 minutes storm, average , 25 minutes storm, average		
CatC1_Prop	0,648	0.648	0	3				, 5 minutes storm, average		1
CatB3Ext_Prop	0.083	0	0.083	0	Subarran and a subarran to the sub-			2 hours storm, average 22		1
CatchCEx	4,757	3,863	0.998	25		0		1 hour storm, average 33.		
Cat Carpark_Prop	0.618	0.618	0	5	0	0	AR&R 2 year	, 25 minutes storm, average	54,7 mm/h, Zona 1	
Outflow Volumes for	Total Catchm	ent (142 imper	vious + 58 3 m	arvious = 198 to	tat hal				-	-
				Pervious Runo						
	cu.m			cu.m (Runoff 9						
AR&R 2 year, 5 min			11472.57 (89.)							
AR&R 2 year, 10 mi				906.00 (11.6%					0	
AR&R 2 year, 15 mi AR&R 2 year, 20 mi				2001.13 (20.39 2977.62 (25.99						
AR&R 2 year, 25 mi				3721.52 (29.09					· · · · · · · · · · · · · · · · · · ·	
AR&R 2 year, 30 mil				4146.84 (29.69		1			to and the second	at the second
AR&R 2 year, 45 mi				5403.45 (32.19						
AR&R 2 year, 1 hou				6358.70 (33.5						
AR&R 2 year, 1.5 ho AR&R 2 year, 2 hou				7245.65 (32.69 7992.91 (32.29						
AR&R 2 year, 3 hou				8945.77 (31.39			-			
AR&R 2 year, 4.5 ho				9159.01 (27.8						
				·						
PIPE DETAILS										-
Name	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)	Due to Storm					
Pipe13	(cu.m/s) 1.018	(m/s) 1.5	HGL (m) 15.29		AR&R 2 vear	25 minutes st	orm, average	54.7 mm/h, Zona 1	1	+
P18	0.964	1.4	15.284					54.7 mm/h, Zone 1	1	-
P20	0.962	1.4	15.284	15.273	AR&R 2 year	, 25 minutes st	lorm, average	54.7 mm/h, Zone 1		
P22	1.004	1.5	15.288					54.7 mm/h, Zone 1		
24	0.921	1.4	15.283					54.7 mm/h, Zone 1		
P28	1.034	1.5	15.292					54.7 mm/h, Zone 1 6.3 mm/h, Zone 1	1 1	1
	0.191	2.0	L.VII	11,007	, start a judi	1	a stange at			1
CHANNEL DETAILS	3									
Vame	Max Q	Max V	Chainage	Max	Due to Storm					
	(cu.m/s)	(m/s)	(m)	HGL (m)						
OVERFLOW ROUT	EDETAILS								1 1	+
	Max Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V	Due to Storm	1 1	1
		0.4	0.256	0.06	0.04	15.94	A CONTRACTOR OF A CONTRACTOR O	AR&R 2 year, 2 hours stor	m, average 22 mm/h, Zone	1
	0.4			0.044	0.03	12.89	0.59	AR&R 2 year, 2 hours slor	m, average 22 mm/h, Zone	1
DF9 DF12	0,185	0.185	0.256		0.06	18.28		AR&R 2 year, 25 minutes :	storm, average 54.7 mm/h,	Zone 1
DF9 DF12 DF26		0.617	0.256	0.071		1			and compared an environment of any stream property of	
DF9 DF12 DF26 DF40	0.185 0.617 0	0,617 0	0.256 0.256	٥	0	0	S with the second second second			
DF9 DF12 DF26 DF40 DF1	0.185 0.817 0 0.279	0.617 0 0.279	0.256 0.256 0.256	0.052	0 0.03	14.33	0.67	AR&R 2 year, 3 hours stor		na 1
DF9 DF12 DF26 DF40 DF1 DF19	0.185 0.817 0 0.279 2.424	0.617 0 0.279 2,424	0.256 0.256 0.256 0.256	0 0.052 0.125	0.03 0.15	14.33 29.06	0.67	AR&R 2 year, 1.5 hours st	orm, average 26.3 mm/h, Z	ne 1 one 1
DF9 DF12 DF26 DF40 DF1 DF19 DF19 DF17	0.185 0.817 0 0.279	0.617 0 0.279	0.256 0.256 0.256	0.052	0 0.03	14.33 29.06	0.67 1.21 1.21		orm, average 26.3 mm/h, Z orm, average 26.3 mm/h, Z	na 1 ona 1 ona 1
DF9 DF12 DF26 DF10 DF1 DF19 DF19 DF17 SlageDischarge_B DF43	0.185 0.817 0 0.279 2.424 2.424 0.155 3.805	0.617 0 0.279 2.424 2.424 0.155 3.805	0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256	0 0.052 0.125 0.125 0.041 0.05	0 0.03 0.15 0.15 0.02 0.2	14.33 29.06 29.06 12.17 34.08	0.67 1.21 1.21 0.57 1.36	AR&R 2 year, 1.5 hours st AR&R 2 year, 1.5 hours st AR&R 2 year, 4.5 hours st AR&R 2 year, 25 minutes	orm, average 26.3 mm/h, Z orm, average 26.3 mm/h, Z orm, average 13 mm/h, Zor storm, average 54.7 mm/h,	na 1 one 1 one 1 të 1 Zone 1
DF9 DF12 DF26 DF40 DF1 DF19 DF17 SlageDischarge_B DF43 DF44	0,185 0,817 0 0,279 2,424 2,424 0,155 3,805 0,785	0.617 0 279 2.424 2.424 0.155 3.805 0.785	0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256	0 0.052 0.125 0.125 0.041 0.15 0.079	0 0.03 0.15 0.15 0.02 0.2 0.2	14.33 29.06 29.06 12.17 34.08 19.72	0.67 1.21 1.21 0.57 1.36 0.9	AR&R 2 year, 1.5 hours st AR&R 2 year, 1.5 hours st AR&R 2 year, 4.5 hours st AR&R 2 year, 25 minutes AR&R 2 year, 25 minutes	orm, average 26.3 mm/h, 2 orm, average 26.3 mm/h, 2 orm, average 13 mm/h, Zo storm, average 54.7 mm/h, storm, average 54.7 mm/h,	aa 1 one 1 one 1 Te 1 Zone 1 Zone 1
DF9 DF12 DF26 DF40 DF10 DF19 DF17 StageDischarge_B DF43 DF44 DF46	0.185 0.817 0 0.279 2.424 2.424 0.155 3.805 0.785 0.185	0.617 0 279 2.424 2.424 0.155 3.805 0.785 0.185	0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.258	0 0.052 0.125 0.125 0.041 0.15 0.079 0.044	0 0.03 0.15 0.02 0.2 0.2 0.07 0.03	14.33 29.06 29.06 12.17 34.08 19.72 12.59	0.67 1.21 1.21 0.57 1.38 0.9 0.59	AR&R 2 year, 1.5 hours st AR&R 2 year, 1.5 hours st AR&R 2 year, 4.5 hours st AR&R 2 year, 25 minutes AR&R 2 year, 25 minutes AR&R 2 year, 2 hours stor	orm, average 26.3 mm/h, 2 orm, average 26.3 mm/h, 2 orm, average 13 mm/h, Zo storm, average 54.7 mm/h, storm, average 54.7 mm/h, storm, average 22 mm/h, Zone	aa 1 one 1 one 1 Zone 1 Zone 1 Zone 1
DF0 DF12 DF26 DF40 DF1 DF19 DF17 StageDischarge_B DF43 DF44 DF44 DF44 DF44 DF44	0.185 0.817 0.279 2.424 2.424 0.155 3.805 0.785 0.185 0.06	0.617 0 279 2.424 2.424 0.155 3.605 0.785 0.185 0.185	0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.258 0.258	0 0.052 0.125 0.125 0.041 0.15 0.079 0.044 0.029	0 0.03 0.15 0.02 0.2 0.2 0.07 0.03 0.03 0.01	14.33 29.06 29.06 12.17 34.08 19.72 12.69 9.73	0.67 1.21 1.21 0.57 1.36 0.9 0.59 0.59 0.42	AR&R 2 year, 1.5 hours st AR&R 2 year, 1.5 hours st AR&R 2 year, 1.5 hours st AR&R 2 year, 25 minutes AR&R 2 year, 25 minutes AR&R 2 year, 2 hours stor AR&R 2 year, 2 hours stor	orm, average 26.3 mm/h, 2 orm, average 26.3 mm/h, 2 orm, average 13 mm/h, Zor storm, average 54.7 mm/h, storm, average 54.7 mm/h, storm, average 22 mm/h, Zone m, average 22 mm/h, Zone	a 1 one 1 one 1 Zone 1 Zone 1 Zone 1 Zone 1 1
0F9 0F12 0F26 0F40 0F1 0F19 0F17 StageDischarge_B 0F47 0F44 0F46 0F47 0F58	0.185 0.817 0 0.279 2.424 2.424 0.155 3.805 0.785 0.185	0.617 0 279 2.424 2.424 0.155 3.805 0.785 0.185	0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.256 0.258	0 0.052 0.125 0.125 0.041 0.15 0.079 0.044	0 0.03 0.15 0.02 0.2 0.2 0.07 0.03	14.33 29.06 29.06 12.17 34.08 19.72 12.59	0.67 1.21 1.21 0.57 1.36 0.9 0.59 0.59 0.42 0.68	AR&R 2 year, 1.5 hours st AR&R 2 year, 1.5 hours st AR&R 2 year, 4.5 hours st AR&R 2 year, 25 minutes AR&R 2 year, 25 minutes AR&R 2 year, 2 hours stor	orm, average 26.3 mm/h, Z orm, average 26.3 mm/h, Z orm, average 13 mm/h, Zo storm, average 54.7 mm/h, storm, average 54.7 mm/h, m, average 22 mm/h, Zone m, average 22 mm/h, Zone m, average 22 mm/h, Zone	e 1 one 1 one 1 ie 1 Zone 1 Zone 1 1 1 1 1

OF60	1.185	1.185	0.256	0.094	0.09	22.77	0.99	AR&R 2 year,	25 minutes st	orm, average	64.7 mm/h, Zo	na 1
OF61	0.076	0.076	0.256	0.032	0.01	10.38		AR&R 2 year,				<u> </u>
OF64	1.72	1.72	0.258	0.109	0.12	25.82		AR&R 2 year,				
StageDischarge_A	0.656	0.656	0.256	0.073	0.06	18.64					a mm/h, Zone	
StageDischarge_D	2.895	2.895	0.256	0.135	0.17	31.03		AR&R 2 year,				
OF 102	3.427	3.427	0.258	0.144	0.19	32.83					3.3 mm/h, Zoni	
OF101 OF131	3.907	3.907	0.256	0,152	0.21	34.44					09 mm/h, Zone	
OF104	0.268	0.017	0.256	0.071	0.03	14.15					54.7 mm/h, Zo 3.3 mm/h, Zoni	
OF205	0.200	0.200	0.256	0.076	0.07	19.18					09 mm/h, Zone	
OF485	0.618	0.618	0.256	0.071	0.06	18.28					54.7 mm/h, Zo	
OF 305	0.648	0.648	0.256	0.073	0.08	18.64					09 mm/h, Zone	
OF340	0.083	0.083	0.256	0.033	0.02	10.58		AR&R 2 year,				
OF28	0	0	0.256	0	0	0	0					
OF30	5.744	5.744	0.258	0.178	0.27	39.65	1.5	AR&R 2 year,	1.5 hours stor	m, average 20	3.3 mm/h, Zone	91
OF487	0.618	0.618	0.256	0,071	0.06	18.28	0.84	AR&R 2 year,	25 minutes st	orm, average	54.7 mm/h, Zo	ne 1
						S				-		1
DETENTION BASIN												
Name	Max WL	MaxVol	Max Q	at the second of	Max Q							
D.(0.5.)		1070 0	Total	Low Lavel	High Level					_		
Del8Ex DetAEx	14.41	4876.2 2581.4	0.279	0								1
Del8_Prop	14.03	7789.8	0.155	0	0.155				-	-		
DetA_Prop	14.85	10678.8	0.656	0			in the second second					
DetC1	14.65	10078.8	1.018	1.018	0.000							
DetD_Prop	15.27	6864.5	2.895	1.010	2.895							
DetC2	15.38	152.9	0.964	0,964	2.000							
DetC3	15.38	152.7	0.962	0.962	0							
DetC4	15.39	157,1	1.004	1.004	0		-			-		
DetC5	15.37	148.3	0.921	0,921	0			1				
DetC6	15.4	160.2	1.034	1.034	0	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		1				
· · · · · · · · · · · · · · · · · · ·				1								
CONTINUITY CHEC					61							/
Node	Inflow		Storage Chan						1			
	(cu.m)	(cu.m)	(cu.m)	%		1	1		1			
N4	2738.29	2738.29	0	0		· · · · · ·						
N5	154.26	154.26	0									
N8	918.79	918.79	0				· · · · ·					
Oet8Ex	6196.01	2587.93	3610.15						()	-		
OutBEx DetAEx	2734.38	2734.38 7860.33	0	1			· Paraterratur			_		
N40	7860.33	7860.33	0									
OULAEX	7860.33	7860.33	ő			······				-		
OutCEx	14438.72	14438.72	0				-					
N57	0	0	0	Concentration of the second se	in the second					-		
DetB_Prop	7179.35	1219.52	5960.83									
N62	5795.11	5795.11	0	Announcement and an other					1			· · · · · · · · · · · · · · · · · · ·
N63	1315.37	1315.37	0	0	A						1	E
N64	154.26	154.28	0				i [12
N65	78.4	· 78.4	0									
N69	1450.19	1450.19				in the second se	the second second					-
OutB_Prop	1448.18					11	· · · · · · · · · · · · · · · · · · ·	1				
N75	10663.14	10663.14										
N76	1507.58	1507.58	0			N Y						
N77	1820.55	1820.55	0					[
N78	111.59											Induit to at tools, and many
N79 OutA Prop	7309.28								-			
DetA_Prop	13194.12											
DetC1	1531.66								1	-	-	
DetD_Prop	16271.57	15231.24				1						
DetC2	1452.11	1451.4	Annual statements and an and statements						100000			
DetC3	1449.53											í – 1
DetC4	1510.59							T				
DetC5	1389.76			0		contraction last contraction	and an					
DetC6	1554.88) <u></u> (÷			
N92	18785.89					-						1
OutC_Prop	16781.74											
N95	5548.72								· · · · · · · · · · · · · · · · · · ·	a the later of the		
N96	918.79											
N97 N169	662.22									-		
N177	1023.4											
N224	919.77					-			h			
N232	68.87											-
HW2	14438.71							1				
N50	14438.72								i			
N294	896.55						1					i i
				1								k
Run Log for Mooreb						Call Red	5.251					The sales
The maximum flow	exceeded the	safe value in th	e following ove	enflow routes: O	F487, OF485,	OF305, OF205	5, OF131, OF	104, OF 102, O	F101, StageD	ischarge_D, C	F84, StageDis	charge_A, OF60,
1			I									
	pared 02 Sept	ember, 2010 fr	om Version 20	10.09		-			t			
DRAINS results pre		1									ļ	
	1			Version 8	1		0				ł	
PIT / NODE DETAIL					11.45							
	S Max HGL	Max Pond	Max Surface	Max Pond	Min	Overflow	Constraint	-				
PIT / NODE DETAIL		Max Pond HGL	Flow Arriving	Max Pond Volume	Freeboard	Overflow (cu.m/s)	Constraint					
PIT / NODE DETAIL Name	Max HGL	HGL	Flow Arriving (cu.m/s)	Max Pond	Freeboard (m)	(cu.m/s)						
PIT / NODE DETAIL Name HW2	Max HGL	HGL 3.217	Flow Arriving (cu.m/s)	Max Pond Volume (cu.m)	Freeboard	(cu.m/s)	None		(4)			
PIT / NODE DETAIL Name	Max HGL	HGL 3.217	Flow Arriving (cu.m/s)	Max Pond Volume (cu.m)	Freeboard (m)	(cu.m/s)			<i>u</i> .			
PIT / NODE DETAIL Name HW2 NS0	Max HGL 12.06 11.78	HGL 3.217	Flow Arriving (cu.m/s)	Max Pond Volume (cu.m)	Freeboard (m)	(cu.m/s)			14/			
PIT / NODE DETAIL Name HW2 N50 SUB-CATCHMENT	Max HGL 12.06 11.78 DETAILS	HGL 3.217	Flow Arriving (cu.m/s) 0	Max Pond Volume (cu.m)	Freeboard (m) 2.14	(cu.m/s) 0	None					
PIT / NODE DETAIL Name HWV2 NS0	Max HGL 12.06 11.78	HGL 3.217	Flow Arriving (cu.m/s)	Max Pond Volume (cu.m)	Freeboard (m) 2.14 Grassed	(cu.m/s)						

	(cu.m/s)	(cu.m/s)	(CU.ITVS)	(min)		(min)	4040 Queen	O hours also		march Zono		
Catch81Ex	0.07	0.179	0.07	3	8				1, average 10.8 1. average 10.8			- 1.1 - Set film for miller 1 to 60
CatchC1Ex CatchBEx	1.753	0.684	1.069	14.5	24				1, average 8.32			
CalchAEx	2.117	1.235	0.882	13.75	15				1, average 10.8	and the second second second second second	THE PROPERTY OF THE PROPERTY O	
Cat81_Prop	1.213	1.213	0.002	6	3				1, average 10.8			matilities.esure
CatB2(Swala)_Prop	0.275	0.275	Ő	9.5	8.5				n, average 10.8			
CatB1Ext_Prop	0.07	0	0.07	5	8				n, average 10.8			
Cat82Ext Prop	0.035	0	0.035	. 8.5	15.5				1, everage 10.8			
CatA1_Prop	2.232	2.232	0	6	3				, average 10.8			
CatA2(Swale) Prop	0.316	0.316	0	12	11				1, average 10.8			
CatA1Ex_Prop	0.507	0.274	0.233	13.2	8.3				1, average 10.8			
CatA2Ex_Prop	0.048	0	0.048	0	18				1, average 8.32			
CalCa_Prop	0.321	0.321	0	3	0				n, average 10.8			
CalCb_Prop	0.304	0.304	0	3	0	0	AR&R 2 year,	6 hours storm	n, average 10.8	mm/h, Zone	1	An and a second s
CatCo Prop	0.303	0.303	0	3	0	0	AR&R 2 year,	6 hours storm	r, average 10.8	3 mm/h, Zone	1	
CatCd_Prop	0,316	0.316	0	3	- 0	0	AR&R 2 year,	6 hours storm	t, average 10.8	3 mm/h, Zone	1	
CatCe_Prop	0.291	0.291	0	3	0				h, average 10.8			
CalCf_Prop	0.325	0.325	0	3	0	0	AR&R 2 year,	6 hours stom	n, average 10.8	3 mm/h, Zone	1	
CalC2_Prop	1.161	1,161	0	3	0	0	AR&R 2 year,	6 hours storm	n, average 10.8	3 mm/h, Zone	1	
CatCEx1_Prop	0.208	0.179	0,029	7	7				h, average 10.8			
CatCEx2_Prop	0.163	0.091	0.071	21.7	25				n, average 8.32			
Cat_A3_Prop	0.214	0.214	0	3	0				n, average 10.8			
Cat Carpark_Ex	0,188	0.188	0	5	.0				n, average 10.8			
CatC1_Prop	0.193	0.193	0	3	0				n, average 10.8			
Cat83Exd_Prop	0.031	0	0.031	0					n, average 10.6			
CalchCEx	2.87	1,904	0,966	25	30				n, average 8.32			
Cat Carpark_Prop	0,188	0,188	Û	5	0	0.0	AR&R 2 year,	6 hours storn	n, average 10.8	om/h, Zone	1	
							-					
		in a st								1		
Outflow Volumes for												1
Storm	1.4			Pervious Runo					-			
	¢u.m			cu.m (Runoff %								
AR&R 2 year, 6 hou				10055.67 (27.5								
AR&R 2 year, 9 hou				12215.03 (29.0							1	
AR&R 2 year, 12 ho				13736.30 (29.4								the contained
AR&R 2 year, 18 ho				11416.94 (21.0					1			
AR&R 2 year, 24 ho	211741.67	160682.31 (7	150162.25 (99	10520.08 (17.5	(%)				1			
			12.50									1.0 <u>.</u> 1.00
PIPE DETAILS				4. UT K. 1								
Name	Max Q	The second s	Max U/S	Max D/S	Due to Storm		-		- terements and and setting		Cat come	
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)	farmer 1							
Pipe13	0.321	1.5	15.09			8 hours storm						
P18	0.304	1.5	15,087			6 hours storm					1.	
P20	0,303	1.5	15.086			6 hours storm						(1112-0
P22	0.316	1.5	15,089			6 hours storm						
P24	0.291	1.4	15.084			6 hours storm						
P26	0.325	1.5	15.09			6 hours storm						
Pio	3.217	2.1	11,831	11.781	AR&R 2 year,	9 hours storm	, average 8.3	2 mm/h, Zone	1			
												-
CHANNEL DETAILS												
CHANNEL DETAILS Name	Max Q	Max V	Chainage	Max	Due to Storm							
and a second and a second s		Max V (m/s)	Chainage (m)	Max HGL (m)	Dus to Storm							
Name	Max Q (cu.m/s)				Due to Storm							
Name OVERFLOW ROUT	Max Q (cu.m/s) E DETAILS	(m/s)	(m)	HGL (m)		Lau Width	Howky	Dua la Clarm				
Name OVERFLOW ROUT Name	Max Q (cu rivs) E DETAILS Max Q U/S	(m/s) Max Q D/S	(m) Safe Q	HGL (m) Max D	Max DxV	and the second sec	Max V	Due to Storm			2mm/h 7aaa	
Name OVERFLOW ROUT Name OF9	Max Q (cu m/s) E DETAILS Max Q U/S 0.32	(m/s) Max Q D/S 0.32	(m) Safe Q 7.665	HGL (m) Max D 0.054	Max DxV 0.04	14.9	0.71	AR&R 2 year	9 hours storm	n, average 8.3	2 mm/h, Zone	
Name OVERFLOW ROUT Name OF9 OF12	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07	(m/s) Max Q D/S 0.32 0.07	(m) Safe Q 7.665 7.665	HGL (m) Max D 0.054 0.031	Max DxV 0.04 0.01	14.9 10.2	0.71 0.44	AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm	n, average 8.3 n, average 10.1	8 mm/h, Zone	1
Name OVERFLOW ROUT Name OF9 OF12 OF26	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208	(m/s) Max Q D/S 0.32 0.07 0.208	(m) Safe Q 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046	Max DxV 0.04 0.01 0,03	14.9 10.2 13.3	0.71 0.44	AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm	n, average 8.3 n, average 10.1	and the second second	1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0	(m/s) Max Q D/S 0.32 0.07 0.208 0	(m) Safe Q 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0	Max DxV 0.04 0.01 0,03 0	14.9 10.2 13.3 0.0	0.71 0.44 0.61 0	AR&R 2 year AR&R 2 year AR&R 2 year	9 hours stom 6 hours stom 6 hours stom	n, average 8.33 n, average 10.1 n, average 10.1	8 mm/h, Zone 8 mm/h, Zone 	1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF40 OF1	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0.285	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266	(m) Safe Q 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0 0.053	Max DxV 0.04 0.01 0,03 0 0.04	14.9 10.2 13.3 0.0 14.5	0.71 0.44 0.61 0 0.67	AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year	9 hours stom 6 hours stom 6 hours stom 9 hours stom	n, average 8.3 n, average 10,1 n, average 10,1 n, average 8.3	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone	1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF1 OF19	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0.285 1.28	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.286 1.28	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) 0.054 0.031 0.046 0 0.053 0.097	Max DxV 0.04 0.01 0,03 0 0.04 0.04	14.9 10.2 13.3 0.0 14.5 23.3	0.71 0.44 0.61 0 0.67 1.02	AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year	9 hours stom 6 hours stom 6 hours stom 9 hours stom 9 hours stom	n, average 8.3 n, average 10,1 n, average 10,1 n, average 8.3 n, average 8.3	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone	1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF19 OF17	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0.286 1.28 1.28	(m/s) Max Q D/S 0.32 0.07 0.208 0.286 1.28 1.28	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) 0.054 0.031 0.046 0 0.053 0.053 0.097	Max DxV 0.04 0.03 0 0 0.04 0.0 0 0.04 0.1	14.9 10.2 13.3 0.0 14.5 23.3 23.3	0.71 0.44 0.61 0 0.67 1.02 1.02	AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm	n, average 8.3 n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3 n, average 8.3 n, average 8.3	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone	1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF10 OF19 OF19 OF17 StageDischarge_B	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0.288 1.28 1.28 0.18	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.288 1.28 1.28 0.18	(m) Safe Q 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	HGL (m) Max D 0.054 0.031 0.046 0 0.053 0.097 0.097	Max DxV 0.04 0.01 0.03 0 0.04 0.1 0.1 0.1	14.9 10.2 13.3 0.0 14.5 23.3 23.3 23.3 12.7	0.71 0.44 0.61 0 0.67 1.02 1.02 0.59	AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year AR&R 2 year	, 9 hours storm , 6 hours storm , 6 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 9 hours storm	n, average 8.33 n, average 10.4 n, average 10.4 n, average 8.33 n, average 8.33 n, average 8.33 m, average 8.33 m, average 6.3	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone	i 1 1 1 1 5 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF17 OF19 OF17 StageDischarge_B OF43	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 285 1.28 1.28 0.18 1.213	(m/s) Max Q D/S 0.32 0.07 0.208 1.28 1.28 0.18 1.213	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.045 0.053 0.057 0.097 0.044 0.095	Max DxV 0.04 0.01 0.03 0 0.04 0.1 0.1 0.1 0.1 0.1 0.03 0.09	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0	0.71 0.44 0.61 0 0.67 1.02 1.02 1.02 0.59	AR&R 2 year AR&R 2 year	, 9 hours storm , 6 hours storm , 6 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 12 hours storm	n, average 8.33 n, average 10.4 n, average 10.4 n, average 8.33 n, average 8.33 n, average 8.3 nn, average 8.3 nn, average 6.3	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF1 OF19 OF17 StageDischarge_B OF43 OF44 OF44	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 285 1.28 1.28 1.28 0.18 1.213 0.275	(m/s) Max Q D/S 0.32 0.07 0.208 0.266 1.28 1.28 0.18 1.213 0.275	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0 0.053 0.097 0.047 0.097 0.097 0.044 0.095 0.045 0.052	Max DxV 0.04 0.03 0 0.04 0.1 0.1 0.03 0.09 0.09 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3	0.71 0.44 0.61 0 0.67 1.02 1.02 1.02 0.59 1 0.67	AR&R 2 year AR&R 2 year	, 9 hours storm , 6 hours storm , 6 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 12 hours storm , 6 hours storm	n, average 8.3 n, average 10.1 n, average 10.1 n, average 8.3 n, average 8.3 n, average 8.3 n, average 8.3 n, average 8.3 n, average 8.3 n, average 10.1	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF19 OF17 StageDischarge_B OF44 OF44 OF46	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.288 1.28 1.28 0.18 1.213 0.275 0.07	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.268 1.28 0.18 1.213 0.275 0.07	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0 0.053 0.097 0.097 0.092 0.052 0.052 0.052 0.055 0.055 0.055 0.055 0.055 0.054 0.054 0.054 0.031 0.054 0.055 0.05	Max DxV 0.04 0.01 0.03 0 0.04 0.1 0.1 0.1 0.1 0.1 0.03 0.09	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0	0.71 0.44 0.61 0 0.67 1.02 1.02 0.59 0.59 1 0.67 1 0.67	AR&R 2 year AR&R 2 year	, 9 hours storm , 6 hours storm , 6 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 12 hours storm , 6 hours storm , 6 hours storm	n, average 8.3: n, average 10.1 n, average 10.1 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.1 n, average 10.1 n, average 10.1	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 5 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF17 StageDischarge_B OF43 OF44 OF44 OF46 OF47	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.288 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035	(m/s) Max Q D/S 0.32 0.07 0.286 0.286 1.28 0.18 1.213 0.275 0.07 0.035	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0.053 0.053 0.053 0.057 0.044 0.055 0.052 0.031 0.024	Max DxV 0.04 0.03 0 0.04 0.1 0.03 0.03 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2	0.71 0.44 0.61 0.67 1.02 1.02 0.59 1 0.67 0.44 0.37	AR&R 2 year AR&R 2 year	, 9 hours storm , 6 hours storm , 6 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 9 hours storm , 6 hours storm , 6 hours storm , 6 hours storm	1, average 8,3 n, average 10,3 n, average 10,1 n, average 8,3 n, average 8,3 m, average 8,3 m, average 8,3 m, average 10,1 n, average 10,0 n, average	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF44 OF44 OF47 OF47	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 0.286 1.28 1.28 1.28 0.18 1.213 0.275 0.035 0.035 0.035	(m/s) Max Q D/S 0.32 0.07 0.208 1.28 0.18 1.213 0.275 0.07 0.035 0.246	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0 0.053 0.097 0.097 0.092 0.052 0.052 0.052 0.055 0.055 0.055 0.055 0.055 0.054 0.054 0.054 0.031 0.054 0.055 0.05	Max DxV 0.04 0.01 0.03 0 0 0.04 0.1 0.1 0.1 0.03 0.09 0.03 0.09 0.03 0.01 0.01	14.9 10.2 13.3 0.0 14.5 23.3 23.3 23.3 12.7 23.0 14.3 10.2 7.9	0.71 0.44 0.61 0.67 1.02 1.02 0.59 1 0.65 1 0.65 0.44 0.37 0.44	AR&R 2 year AR&R 2 year	9 hours storm 8 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm 6 hours storm 6 hours storm 6 hours storm 6 hours storm 7 6 hours storm 7 6 hours storm 7 6 hours storm 7 12 hours storm	I, average 8.3; 1, average 10.3; 1, average 10.3; 1, average 8.3; 1, average 8.3; 1, average 8.3; 1, average 8.3; 1, average 8.3; 1, average 10.3; 1, average 10.3;	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF17 StageDischarge_B OF43 OF44 OF44 OF46 OF47	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.288 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.288 1.28 1.28 1.28 1.21 0.75 0.075 0.075 0.246 2.232	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0 0.097 0.097 0.097 0.097 0.097 0.097 0.097 0.095 0.055 0.055 0.055 0.055 0.055 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.055 0.05	Max DxV 0.04 0.01 0.03 0 0 0.04 0.04 0.03 0.03 0.09 0.03 0.01 0.01 0.01	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8	0.71 0.44 0.61 0 0.67 1.02 0.59 1 0.67 0.44 0.37 0.65 1.19	AR&R 2 year AR&R 2 year	9 hours storm 9 hours storm 6 hours storm 9 hours storm 9 hours storm 12 hours storm 12 hours storm 6 hours storm 7 ho	1, average 8.33 n, average 10.4 n, average 10.4 n, average 8.33 n, average 8.33 n, average 8.33 n, average 8.33 n, average 8.33 n, average 8.33 n, average 10.4 n, ave	8 mm/h, Zone 8 mm/h, Zone 1 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 2 3 1 3
Name OVERFLOW ROUT Name OF9 OF12 OF12 OF40 OF1 OF19 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF46 OF46 OF47 OF56	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 286 1.28 1.28 1.28 1.21 0.18 1.213 0.275 0.07 0.035 0.246 2.232	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.288 1.28 1.28 1.28 1.21 0.75 0.075 0.075 0.246 2.232	(m) Safe Q 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	HGL (m) Max D 0.054 0.054 0.046 0 0.053 0.097 0.044 0.095 0.052 0.052 0.052 0.031 0.024 0.049 0.0121	Max DxV 0.04 0.03 0 0.04 0.1 0.03 0.03 0.03 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2	0.71 0.44 0.81 0 0 0.67 1.02 1.02 0.59 0.44 0.37 0.44 0.37 0.45 1.19 0.7	AR&R 2 year AR&R 2 year	9 hours storm 9 hours storm 6 hours storm 9 hours storm 12 hours storm 12 hours storm 12 hours storm 6 hours storm 6 hours storm 6 hours storm 7 6 hours storm	1, average 8, 3; n, average 10, 1 , average 10, 1 1, average 10, 1 1, average 8, 3; n, average 8, 3; m, average 8, 3; m, average 6, n, average 10, n,	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 92 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF47 OF51 OF59 OF59 OF59 OF60 OF60 OF60	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.288 1.28 1.28 1.213 0.275 0.07 0.035 0.242 0.035 0.242 0.0316	(m/s) Max Q D/S 0.32 0.07 0.286 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507	(m) Safe Q 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	HGL (m) Max D 0.054 0.031 0.046 0 0.053 0.097 0.044 0.095 0.097 0.044 0.095 0.053 0.024 0.024 0.021 0.021 0.021 0.024 0.031	Max DxV 0.04 0.03 0.03 0.04 0.04 0.04 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 7.9 13.8 20.2 14.9	0.71 0.44 0.61 0.0 0.67 1.02 0.59 1 0.59 1 0.44 0.37 0.65 1.19 0.77	AR&R 2 year AR&R 2 year	9 hours storm 9 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm 12 hours storm 6 hours storm 6 hours storm 12 hours storm 12 hours storm 12 hours storm 12 hours storm 5 6 hours storm 16 hours storm 17 hours storm 16 hours storm 16 hours storm 16 hours storm 16 hours storm 17 hours storm 16 ho	1, average 8,3 n, average 10, 1 , average 10, 1 1, average 8,3 n, average 8,3 n, average 8,3 m, average 8,3 m, average 10, n, average	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 92 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF46 OF47 OF51 OF59 OF59	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0.07 0.286 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.350	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.288 1.28 1.28 1.28 1.21 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0.097 0.097 0.097 0.044 0.055 0.052 0.031 0.044 0.049 0.044 0.044 0.044 0.044 0.044 0.044 0.054 0.054 0.054 0.055 0.057 0.044 0.054 0.055 0.057 0.044 0.055 0.055 0.057 0.056	Max DxV 0.04 0.01 0.03 0 0 0.04 0.04 0.03 0.09 0.03 0.01 0.03 0.01 0.03 0.04 0.04 0.04	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 2 7.9 13.8 28.2 2 14.9 17.2	0.71 0.44 0.61 0 0.67 1.02 0.59 1 0.67 0.44 0.37 0.65 1.19 0.77 0.79 0.79	AR&R 2 year AR&R 2 year	9 hours storm 8 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm 9 hours storm 6 hours storm 6 hours storm 12 hours storm 12 hours storm 12 hours storm 12 hours storm 5 hours storm 7 6 hours storm	I, average 8.3; n, average 10.4; n, average 10.4; n, average 10.4; n, average 8.3; n, average 8.3; n, average 8.3; n, average 6.3; n, average 10.4; n, average 10.4;	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF17 OF19 OF17 OF19 OF17 StageOischarge_B OF44 OF44 OF44 OF44 OF44 OF45 OF47 OF56 OF59 OF60 OF60 OF61	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.0507	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.268 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16	(m) Safe Q 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	HGL (m) Max D 0.054 0.031 0.046 0 0.097 0.024 0.024 0.026 0.02	Max DxV 0.04 0.01 0.03 0 0.04 0.04 0.03 0.09 0.03 0.001 0.01 0.01 0.03 0.01 0.01 0.0	14.9 10.2 13.3 0.0 14.5 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8	0.71 0.44 0.61 0 0.07 1.02 0.59 1 0.67 0.44 0.37 0.65 1.19 0.77 0.79 0.71 0.79 0.71	AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm 6 hours storm 9 hours storm 12 hours storm 12 hours storm 12 hours storm 6 hours storm 6 hours storm 7 6 hours storm 7 9 0 ho	1, average 8.3; n, average 10.4; n, average 10.4; 1, average 10.4; 1, average 8.3; n, average 8.3; n, average 8.3; n, average 8.3; n, average 8.3; n, average 10.4; n, average 10.4;	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF19 OF19 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF46 OF47 OF50 OF59 OF59 OF60 OF64 StageDischarge_A	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.288 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.266 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712	(m) Safe Q 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	HGL (m) Max D 0.054 0.051 0.046 0.053 0.097 0.044 0.095 0.052 0.052 0.052 0.024 0.044 0.052 0.052 0.051 0.052 0.052 0.054 0.054 0.055 0.055 0.055 0.055 0.055 0.057 0.054 0.055	Max DxV 0.04 0.03 0.03 0.04 0.04 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.01 0.03 0.01 0.03 0.04 0.05 0.04 0.05 0.01 0.09 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 14.9 17.2 8.8 22.6 19.2	0.71 0.44 0.81 0 0.67 1.02 0.59 1 0.44 0.37 0.65 1.19 0.77 0.79 0.79 0.79 0.79	AR&R 2 year AR&R 2 year	9 hours storm 9 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm 12 hours storm 6 hours storm 7 6 hours storm 7 6 hours storm 7 6 hours storm 7 6 hours storm 7 9 hours storm 7 9 hours storm 9 hours storm 12 hours storm 12 hours storm 13 hours storm 13 hours storm 14 hours storm 15 hours storm 15 hours storm 16 hours storm 17 hours storm 17 hours storm 18 hours storm 18 hours storm 18 hours storm 19 hours storm 19 hours storm 19 hours storm 10 h	1, average 8, 3; n, average 10, 1 , average 10, 1 1, average 10, 1 1, average 8, 3; n, average 8, 3; n, average 8, 3; n, average 10, n, average 3, m, average 8, 1, a	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 92 mm/h, Zone 8 mm/h, Zone 9 mm/h, Zone 9 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF3 OF12 OF12 OF12 OF14 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF47 OF46 OF47 OF46 OF47 OF47 OF49 OF19 OF19 OF19 OF19 OF19 OF19 OF19 OF19 OF40 OF46 OF46 OF65 OF68 OF69 OF69 OF68 OF60 OF69 OF68 OF60	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 0.18 1.21 0.275 0.07 0.035 0.246 2.232 0.316 0.316 0.507 0.048 1.16	(m/s) Max Q D/S 0.32 0.07 0.286 1.28 0.18 1.213 0.275 0.07 0.035 0.246 0.507 0.046 1.16 0.507 0.448 0.712 0.242	(m) Safe Q 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	HGL (m) Max D 0.054 0.031 0.046 0.097 0.097 0.097 0.097 0.044 0.095 0.053 0.052 0.097 0.044 0.055 0.055 0.055 0.057 0.097 0.044 0.049 0.024 0.049 0.024 0.049 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.027	Max DxV 0.04 0.01 0.03 0 0.04 0.04 0.03 0.09 0.03 0.01 0.03 0.01 0.03 0.01 0.04 0.04 0.04 0.05 0.01 0.07 0.07	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 2.14.9 17.2 8.8 2.26 (19.2 19.2 2.9.1	0.71 0.44 0.81 0 0 0.87 1.02 0.59 1 0.59 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.44 0.59 0.44 0.59 0.44 0.59 0.59 0.59 0.44 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	9 hours storm 9 hours storm 9 hours storm 9 hours storm 9 hours storm 9 hours storm 9 hours storm 12 hours storm 6 hours storm 7 6 hours storm 7 6 hours storm 7 6 hours storm 7 6 hours storm 7 9 hours storm	I, average 8.3; , average 10.4; , average 10.4; , average 10.4; , average 8.3; n, average 8.3; n, average 8.3; n, average 8.3; n, average 10.4; n, average 8.3; n, average 10.4; n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF12 OF12 OF26 OF40 OF1 OF19 OF17 StageDischarge_B OF44 OF44 OF44 OF44 OF44 OF44 OF45 OF51 OF58 OF59 OF50 OF50 OF64 StageDischarge_A StageDischarge_D OF102	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 0.286 1.28 1.28 1.28 0.18 1.213 0.275 0.075 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.507	(m/s) Max Q D/S 0.32 0.07 0.286 1.28 0.18 1.213 0.275 0.07 0.035 0.246 0.507 0.046 1.16 0.507 0.448 0.712 0.242	(m) Safe Q 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665 7.665	HGL (m) Max D 0.054 0.031 0.046 0.097 0.097 0.097 0.097 0.044 0.095 0.053 0.052 0.097 0.044 0.055 0.055 0.055 0.057 0.097 0.044 0.049 0.024 0.049 0.024 0.049 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.026 0.027	Max DxV 0.04 0.03 0 0.04 0.1 0.03 0.03 0.03 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 2.14.9 17.2 8.8 2.26 (19.2 19.2 2.9.1	0.71 0.44 0.61 0 0.67 1.02 0.59 1 0.67 0.44 0.37 0.65 1.19 0.79 0.79 0.79 0.41 0.99 0.81 1.24	AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm 9 hours storm 6 hours storm 6 hours storm 12 hours storm 9 hours storm 12 hours storm 12 hours storm 12 hours storm 12 hours storm 13 hours storm 14 hours storm 15 hours storm 15 hours storm 16 hours storm 16 hours storm 16 hours storm 16 hours storm 17 hours storm 16 hours storm 17 hours storm 18 hours storm 19 hours storm 19 hours storm 10 hours	I, average 8.3; n, average 10.4; n, average 10.4; n, average 10.4; n, average 8.3; n, average 8.3; n, average 8.3; n, average 6.3; n, average 10.4; n, average 10.4; n, average 10.4; n, average 10.4; n, average 10.4; n, average 10.4; n, average 8.3; m, average 10.4; m, ave	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF44 OF44 OF45 OF59 OF51 OF56 OF56 OF56 OF56 OF56 StageDischarge_A StageDischarge_A	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 1.21 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.242 2.718	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.268 1.28 0.18 1.213 0.275 0.07 0.035 0.248 2.232 0.316 0.507 0.048 1.16 1.151	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.054 0.052 0.057 0.097 0.044 0.097 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.054 0.044 0.049 0.121 0.054 0.054 0.055 0.055 0.057 0.077	Max DxV 0.04 0.03 0 0 0.04 0.03 0.04 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 8 22.6 19.2 14.9 17.2 8.8 8 22.6 19.2 13.0 30.3 22.6	0.71 0.44 0.61 0 0.67 1.02 0.59 1 0.67 0.44 0.37 0.65 1.19 0.77 0.79 0.79 0.79 0.41 0.89 0.87 1.24 0.89	AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm 6 hours storm 9 hours storm 12 hours storm 12 hours storm 12 hours storm 12 hours storm 6 hours storm 6 hours storm 6 hours storm 6 hours storm 7 6 hours storm 9 hours storm 7 6 hours storm	1, average 8.3 1, average 10.4 1, average 10.4 1, average 10.4 1, average 8.3 1, average 8.3 1, average 8.3 1, average 8.3 1, average 8.3 1, average 10.4 1, average 10.4 1, average 10.4 1, average 10.4 1, average 10.4 1, average 10.4 1, average 8.3 1, average 8.3 1, average 10.4 1, average 10.	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 9 mm/h, Zone 9 mm/h, Zone 9 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 9 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF44 OF46 OF47 OF51 OF59 OF60 OF61 OF69 StageDischarge_A StageDischarge_D OF102 OF101 OF131 OF13 OF13	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.356 0.248 1.16 1.161	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 1.181 0.208	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.097 0.044 0.085 0.052 0.053 0.044 0.045 0.052 0.031 0.044 0.044 0.044 0.044 0.024 0.026 0.027 0.044 0.024 0.026 0.026 0.027	Max DxV 0.04 0.03 0.03 0.04 0.04 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.01 0.03 0.04 0.05 0.04 0.05 0.05 0.05 0.07 0.15 0.08 0.09 0.09 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 2 14.9 17.2 18.8 28.2 2.1 4.9 17.2 18.9 2.9 13.3 3.22.6 13.3	0.71 0.44 0.81 00 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.45 1.19 0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.7	AR&R 2 year AR&R 2 year	9 hours storm 9 hours storm 6 hours storm 9 hours storm 9 hours storm 9 hours storm 12 hours storm 6 hours storm 6 hours storm 6 hours storm 6 hours storm 7 6 hours storm 7 6 hours storm 7 8 hours storm 7 8 hours storm 7 9 hours storm 7 9 hours storm 7 8 hours	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageOischarge_B OF43 OF44 OF44 OF44 OF46 OF47 OF51 OF56 OF59 OF50 OF61 OF66 OF61 OF64 StageDischarge_A StageDischarge_D OF102 OF101 OF131 OF104	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0.07 0.208 1.28 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.0507 0.048 1.16 0.712 2.42 2.718 1.1611 0.228	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.288 1.28 1.28 1.28 1.28 1.23 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.718 1.161 0.218 0.715 0.246 0.517 0.048 0.163 0.715 0.242 0.517 0.048 0.16 0.715 0.242 0.517 0.048 0.16 0.715 0.245 0.557 0.025 0.258 0.07 0.025 0.07 0.025 0.07 0.025 0.07 0.025 0.07 0.035 0.07 0.035 0.07 0.035 0.07 0.035 0.025 0.07 0.035 0.025 0.07 0.035 0.025 0.07 0.035 0.025 0.07 0.035 0.025 0.025 0.025 0.07 0.035 0.025 0.025 0.025 0.07 0.035 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.07 0.035 0.025 0.056 0.075 0.025 0	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.054 0.053 0.067 0.067 0.067 0.044 0.085 0.052 0.031 0.026 0.052 0.031 0.026 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.052 0.053 0.054 0.055 0.057 0.052 0.054 0.052	Max DxV 0.04 0.03 0 0.04 0.03 0.03 0.03 0.03 0.	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 27.9 13.8 28.2 29.1 30.3 22.6 19.2 29.1 30.3 32.26 13.3 31.2,4	0.71 0.44 0.61 0.0 0.67 1.02 0.59 0.44 0.37 0.65 1.19 0.79 0.44 0.79 0.41 0.79 0.41 0.87 1.2 1.24 0.89 0.87 1.2 1.24 0.58	AR&R 2 year AR&R 2 year	Phours storm Phours	1, average 8.3 1, average 10.1 1, average 10.1 1, average 10.1 1, average 8.3 1, average 8.3 1, average 8.3 1, average 8.3 1, average 10.1 1, average	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageOischarge_B OF43 OF44 OF44 OF44 OF46 OF47 OF51 OF56 OF59 OF50 OF61 OF66 OF61 OF64 StageDischarge_A StageDischarge_D OF102 OF101 OF131 OF104	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 1.28 1.28 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.517 0.048 1.16 0.712 2.42 2.718 1.161 0.218 0.163 0.163	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.268 1.28 1.28 0.18 1.21 0.275 0.07 0.035 0.246 2.322 0.316 0.507 0.048 1.161 0.712 2.422 2.718 1.181 0.208 0.163 0.214	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.053 0.053 0.097 0.044 0.097 0.044 0.092 0.052 0.052 0.031 0.024 0.048 0.028 0.023 0.026 0.023 0.026 0.023 0.026 0.026 0.023 0.026	Max DxV 0.04 0.03 0 0.04 0.03 0.03 0.03 0.03 0.	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 27.9 13.8 28.2 29.1 30.3 22.6 13.3 12.4	0.71 0.44 0.61 0 0.07 1.02 0.59 1 0.67 0.44 0.37 0.67 0.44 0.37 0.65 1.19 0.79 0.41 0.79 0.41 0.99 0.87 1.24 0.99 0.81 0.58	AR&R 2 year AR&R 2 year	9 hours storm 6 hours storm 7 hours storm 9 hours storm 1 hours storm 1 hours storm 1 hours storm 1 hours storm 6 hours storm 6 hours storm 6 hours storm 7 hours storm 9 hours storm 6 hours storm 9 hours storm 6 hours storm 9 hours storm 6 hours storm 6 hours storm 6 hours storm 7 hours storm 6 hours storm 7 hour	1, average 8.3; n, average 10.4; n, average 10.4; n, average 10.4; n, average 8.3; n, average 8.3; n, average 8.3; n, average 8.3; n, average 10.4; n, average 8.3; n, average 10.4; n, average 10.4;	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Name OVERFLOW ROUT Name OF3 OF12 OF12 OF12 OF14 OF1 OF1 StageDischarge_B OF43 OF44 OF44 OF44 OF45 OF45 OF59 OF50 OF50 OF56 OF56 OF56 StageDischarge_A StageDischarge_C OF101 OF10 OF101 OF101 OF104 OF	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 1.23 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.778 1.161 0.208	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.276 0.07 0.035 0.248 1.28 0.18 1.213 0.275 0.07 0.035 0.244 1.161 0.2742 2.742 2.742 1.151 0.209 0.183 0.214 0.188 0.214 0.188	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.053 0.097 0.044 0.095 0.097 0.044 0.095 0.052 0.053 0.053 0.053 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.054 0.055 0.125 0.125 0.132 0.093 0.095 0.125 0.125 0.031 0.054 0.054 0.054 0.054 0.055 0.055 0.057 0.054 0.055 0.055 0.055 0.055 0.055 0.055 0.055 0.055 0.055	Max DxV 0.04 0.03 0 0.04 0.03 0.03 0.03 0.03 0.	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 14.9 17.2 13.8 28.2 14.9 17.2 13.3 10.2 13.3 12.4 13.3 12.4	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.65 1.19 0.77 0.79 0.79 0.79 0.79 0.79 0.79 0.87 1.2 1.24 0.89 0.87 1.2 1.24 0.59 0.63 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours	1, average 8.3 1, average 10.4 1, average 10.4 1, average 10.4 1, average 8.3 1, average 8.3 1, average 8.3 1, average 8.3 1, average 8.3 1, average 10.4 1, average 8.3 1, average 8.3 1, average 10.4 1, average 10.	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	i i
Name OVERFLOW ROUT Name OF9 OF12 OF12 OF12 OF40 OF10 OF17 StageDischarge_B OF43 OF46 OF46 OF46 OF46 OF47 OF51 OF59 OF59 OF59 OF60 OF61 StageDischarge_D OF64 StageDischarge_D OF64 StageDischarge_D OF102 OF101 OF131 OF104 OF205 OF205 OF405 OF	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.288 1.28 1.28 0.18 1.21 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.161 0.712 2.422 2.718 1.161 0.208 0.163 0.214 0.188	(m/s) Max Q D/S 0.32 0.07 0.208 0.286 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.161 0.712 2.42 2.718 1.161 0.208 0.163 0.218 0.183 0.218 0.183 0.183 0.218 0.183 0.218 0.183 0.218 0.183 0.218 0.183 0.218 0.183 0.218 0.185 0.185 0.185 0.185 0.185 0.185 0.185 0.185 0.218 0.185 0.185 0.185 0.218 0.185 0.215 0.215 0.255 0.246 0.185 0.218 0.21	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.095 0.097 0.093 0.098 0.094	Max DxV 0.04 0.03 0 0 0.03 0.04 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.03 0.01 0.03 0.04 0.05 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 14.9 17.2 13.8 28.2 14.9 17.2 13.3 10.2 13.3 12.4 13.3 12.4	0.71 0.44 0.81 0.0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.45 1.19 0.79 0.41 0.79 0.41 0.59 0.61	AR&R 2 year AR&R 2 year	Phours storm Phours Phou	I average 8.3: n, average 10.1 n, average 10.1 n, average 10.1 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.1 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF44 OF44 OF44 OF45 OF59 OF50 OF50 OF56 OF56 OF56 OF56 OF56 OF56 OF50 OF102 OF102 OF101 OF104 OF104 OF205 OF485	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 0.286 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.718 1.161 0.712 2.42 2.718 0.163 0.214 0.163 0.214 0.183	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.288 1.28 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.161 0.202 0.448 1.161 0.202 0.242 0.316 0.516 0.517 0.048 1.181 0.202 0.242 0.316 0.517 0.5	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.054 0.054 0.052 0.097 0.097 0.044 0.093 0.052 0.054 0.054 0.054 0.024 0.024 0.024 0.024 0.025	Max DxV 0.04 0.03 0.03 0.04 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 12.7 23.0 14.3 10.2 7.9 13.6 28.2 14.9 13.6 28.2 14.9 17.2 8.8 22.6 13.3 22.6 13.3 22.6 13.3 12.4 13.3 12.4 13.3 12.9 7.63	0.71 0.44 0.81 0.0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.44 0.37 0.45 1.19 0.79 0.41 0.79 0.41 0.59 0.61	AR&R 2 year AR&R 2 year	Phours storm Phours Phou	I average 8.3: n, average 10.1 n, average 10.1 n, average 10.1 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.1 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1
Name OVERFLOW ROUT Name OF3 OF3 OF40 OF12 OF40 OF17 StageDischarge_B OF43 OF44 OF46 OF46 OF46 OF46 OF47 OF59 OF59 OF60 OF59 OF60 OF69 OF64 StageDischarge_A StageDischarge_D OF610 OF610 OF612 OF101 OF131 OF104 OF205 OF205 OF205 OF205 OF205 OF205 OF207 OF300 OF10 OF10 OF10 OF10 OF10 OF10 OF10 OF10 OF10 OF10 OF40 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF40	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 0.18 1.21 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.2718 1.161 0.208 0.163 0.163 0.163 0.214	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.268 1.28 0.18 1.213 0.275 0.07 0.035 0.248 2.232 0.316 0.507 0.048 1.161 0.712 2.42 2.718 1.151 0.209 0.183 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.188 0.193 0.214 0.188 0.031 0.038 0.188 0.031 0.038 0	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.053 0.046 0.053 0.097 0.044 0.052 0.053 0.054 0.054 0.044	Max DxV 0.04 0.03 0 0.03 0 0.03 0.03 0.03 0.03 0.01 0.03 0.01 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.04 0.03 0.04 0.03 0.04 0.04 0.04 0.03 0.04 0.03 0.04 0.03 0.04 0.05 0.05 0.0	14.9 10.2 13.3 0.0 14.5 23.3 12.7 23.0 14.3 10.2 7.9 1.3 8 8 28.2 14.9 17.2 8.8 22.6 19.2 29.1 13.0 3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 22.6 13.3 20.0 14.5 15.7 17.7 17.7 17.7 17.7 17.7 17.7 17	0.71 0.44 0.61 0 0.67 1.02 0.59 1 0.67 0.44 0.37 0.65 1.19 0.77 0.79 0.41 0.89 0.87 1.22 1.24 0.99 0.61 0.58 0.63 0.59 0.61 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours	I, average 8.3; n, average 10.4; n, average 10.4; n, average 8.3; n, average 8.3; n, average 8.3; n, average 8.3; n, average 8.3; n, average 10.4; n, average 8.3; n, average 10.4; n, average 10.4; n	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	i i
Name OVERFLOW ROUT Name OF9 OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF47 OF51 OF59 OF50 OF50 OF50 OF60 OF61 OF61 OF102 OF101 OF104 OF104 OF104 OF205 OF305 OF305 OF305 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.718 1.161 0.713 2.42 2.718 1.161 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.244 0.713 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.244 0.715 0.245 0.715 0.245 0.775 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.715 0.245 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.045 0.0450.045 0.045	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.046 1.161 0.712 2.42 2.718 1.161 0.209 0.163 0.214 0.188 1.161 0.209 0.163 0.214 0.188 0.183 0.214 0.188 0.183 0.215 0.215 0.226 0.2276 0.2276 0.226 0.2276 0.2276 0.2276 0.2276 0.2276 0.2276 0.22777 0.22777 0.22777 0.2277777777777777777777777777777777777	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.053 0.046 0.053 0.097 0.044 0.052 0.053 0.054 0.054 0.044	Max DxV 0.04 0.03 0 0.04 0.1 0.03 0.03 0.03 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 2.1 14.9 17.2 8.8 22.6 13.3 22.6 13.3 22.6 13.3 12.9 12.9 12.9 12.9 12.9 12.9 0 0 32.11	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.65 1.19 0.79 0.41 0.87 0.79 0.41 0.89 0.87 1.2 1.24 0.89 0.63 0.58 0.63 0.59 0.61 0.58 0.65 0.59 0.61 0.58 0.59 0.61 0.58 0.59 0.61 0.58 0.58 0.59 0.61 0.58 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours A	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 <t< td=""></t<>
Name OVERFLOW ROUT Name OF1 OF1 OF1 OF26 OF40 OF1 OF1 OF1 OF17 StageDischarge_B OF44 OF46 OF47 OF46 OF47 OF58 OF50 OF50 OF60 OF61 OF64 StageDischarge_A StageDischarge_D OF102 OF101 OF131 OF102 OF104 OF205 OF305 OF304 OF305 OF304 OF305 OF305 OF306 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF305 OF306 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 0.286 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.0507 0.048 1.16 0.507 0.026 0.075 0.0276 0.0277 0.0276	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.046 1.161 0.712 2.42 2.718 1.161 0.209 0.163 0.214 0.188 1.161 0.209 0.163 0.214 0.188 0.183 0.214 0.188 0.183 0.215 0.215 0.226 0.2276 0.2276 0.226 0.2276 0.2276 0.2276 0.2276 0.2276 0.2276 0.22777 0.22777 0.22777 0.2277777777777777777777777777777777777	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.046 0.053 0.095 0.053 0.097 0.044 0.095 0.052 0.031 0.024 0.024 0.024 0.024 0.026 0.025 0.125 0.125 0.132 0.093 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.046 0.046 0.046 0.053 0.053 0.053 0.055 0.057 0.054 0.055	Max DxV 0.04 0.03 0.03 0.04 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.01 0.03 0.04 0.03 0.04 0.05 0.04 0.05 0.04 0.05 0.07 0.15 0.09 0.03 0.02 0.03 0.02 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 2.1 14.9 17.2 8.8 22.6 13.3 22.6 13.3 22.6 13.3 12.9 12.9 12.9 12.9 12.9 12.9 0 0 32.11	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.65 1.19 0.79 0.41 0.87 0.79 0.41 0.89 0.87 1.2 1.24 0.89 0.63 0.58 0.63 0.59 0.61 0.58 0.65 0.59 0.61 0.58 0.59 0.61 0.58 0.59 0.61 0.58 0.58 0.59 0.61 0.58 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours A	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 <t< td=""></t<>
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF47 OF51 OF51 OF58 OF59 OF60 OF61 OF66 OF661 OF661 OF102 OF102 OF101 OF104 OF104 OF205 OF305 OF305 OF305 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 0.286 1.28 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.0507 0.048 1.16 0.507 0.026 0.075 0.0276 0.0277 0.0276	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.046 1.161 0.712 2.42 2.718 1.161 0.209 0.163 0.214 0.188 1.161 0.209 0.163 0.214 0.188 0.183 0.214 0.188 0.183 0.215 0.215 0.226 0.2276 0.2276 0.226 0.2276 0.2276 0.2276 0.2276 0.2276 0.2276 0.22777 0.22777 0.22777 0.2277777777777777777777777777777777777	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.046 0.053 0.095 0.053 0.097 0.044 0.095 0.052 0.031 0.024 0.024 0.024 0.024 0.026 0.025 0.125 0.125 0.132 0.093 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.046 0.046 0.046 0.053 0.053 0.053 0.055 0.057 0.054 0.055	Max DxV 0.04 0.03 0.03 0.04 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.01 0.03 0.04 0.03 0.04 0.05 0.04 0.05 0.04 0.05 0.07 0.15 0.09 0.03 0.02 0.03 0.02 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 2.1 14.9 17.2 8.8 22.6 13.3 22.6 13.3 22.6 13.3 12.9 12.9 12.9 12.9 12.9 12.9 0 0 32.11	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.65 1.19 0.79 0.41 0.87 0.79 0.41 0.89 0.87 1.2 1.24 0.89 0.63 0.58 0.63 0.59 0.61 0.58 0.65 0.59 0.61 0.58 0.59 0.61 0.58 0.59 0.61 0.58 0.58 0.59 0.61 0.58 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours A	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 <t< td=""></t<>
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF47 OF51 OF51 OF58 OF59 OF60 OF61 OF66 OF661 OF661 OF102 OF102 OF101 OF104 OF104 OF205 OF305 OF305 OF305 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.232 0.316 0.507 0.048 1.16 0.712 2.42 2.718 1.161 0.208 0.163 0.163 0.163 0.214 0.183 0.214 0.183 0.214 0.183 0.214	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.046 1.161 0.712 2.42 2.718 1.161 0.209 0.163 0.214 0.188 1.161 0.209 0.163 0.214 0.188 0.183 0.214 0.188 0.183 0.215 0.215 0.226 0.226 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.256 0.246 0.507 0.058 0.168 0.188 0.188 0.183 0.213 0.215 0.246 0.215 0.257 0.057 0.048 0.188 0.073 0.053 0.242 0.188 0.073 0.053 0.245 0.245 0.257 0.057 0	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.046 0.053 0.095 0.053 0.097 0.044 0.095 0.052 0.031 0.024 0.024 0.024 0.024 0.026 0.025 0.125 0.125 0.132 0.093 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.044 0.046 0.046 0.046 0.053 0.053 0.053 0.055 0.057 0.054 0.055	Max DxV 0.04 0.03 0.03 0.04 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.01 0.03 0.04 0.03 0.04 0.05 0.04 0.05 0.04 0.05 0.07 0.15 0.09 0.03 0.02 0.03 0.02 0.03 0.03 0.03 0.03	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 14.9 17.2 8.8 28.2 2.1 14.9 17.2 8.8 22.6 13.3 22.6 13.3 22.6 13.3 12.9 12.9 12.9 12.9 12.9 12.9 0 0 32.11	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.44 0.37 0.65 1.19 0.79 0.41 0.87 0.79 0.41 0.89 0.87 1.2 1.24 0.89 0.63 0.58 0.63 0.59 0.61 0.58 0.65 0.59 0.61 0.58 0.59 0.61 0.58 0.59 0.61 0.58 0.58 0.59 0.61 0.58 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours A	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 <t< td=""></t<>
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Name OVERFLOW ROUT Name OF9 OF12 OF12 OF12 OF12 OF13 OF17 StageDischarge_B OF43 OF44 OF44 OF47 OF47 OF51 OF59 OF50 OF60 OF61 OF59 OF60 OF61 OF64 StageDischarge_D OF102 OF131 OF104 OF205 OF305 OF305 OF305 OF305 OF30 OF30 OF30 OF30 OF30 OF30 OF30 OF30	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 0 0 0.286 1.28 0.128 1.28 0.128 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 0.163 0.214 0.163 0.214 0.183 0.035	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.268 1.28 0.18 1.21 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.161 0.712 2.422 2.718 1.161 0.209 0.168 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.215 0.246 0.507 0.048 1.161 0.208 0.507 0.048 0.168 0.188 0.188 0.188 0.188 0.188 0.188 0.188 0.188 0.188 0.193 0.217 0.188 0.188 0.188 0.188 0.188 0.193 0.217 0.188 0.188 0.188 0.188 0.188 0.188 0.188 0.188 0.188 0.193 0.217 0.188 0	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.054 0.053 0.053 0.097 0.044 0.097 0.052 0.054 0.055	Max DxV 0.04 0.03 0.03 0.03 0.04 0.03 0.09 0.03 0.09 0.03 0.01 0.01 0.01 0.03 0.04 0.05 0.01 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.04 0.05 0.0	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 2 14.9 17.2 14.9 17.2 14.9 17.2 14.9 17.2 2.1 13.0 3 22.6 13.3 12.4 13.3 12.9 12.9 12.9 12.9 12.9 0 32.11 12.89	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.65 1.19 0.79 0.79 0.79 0.41 0.89 0.87 1.2 1.24 0.89 0.87 1.2 1.24 0.58 0.63 0.59 0.61 0.58 0.65 0.59 0.61 0.58 0.59 0.61 0.58 0.59 0.61 0.58 0.58 0.59 0.61 0.58 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours A	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 <t< td=""></t<>
Name OVERFLOW ROUT Name OF9 OF12 OF26 OF40 OF1 OF19 OF17 StageDischarge_B OF43 OF44 OF44 OF44 OF44 OF44 OF46 OF47 OF58 OF59 OF60 OF59 OF60 OF61 OF64 StageDischarge_A StageDischarge_C OF101 OF101 OF101 OF101 OF101 OF101 OF102 OF30 OF28 OF30 OF28 OF30 OF28 OF30 OF487 DETENTION BASIN Name	Max Q (cu.m/s) E DETAILS Max Q U/S 0.32 0.07 0.208 1.28 1.28 1.28 1.28 1.23 0.275 0.07 0.035 0.246 2.232 0.316 0.507 0.048 1.16 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 2.42 2.718 1.161 0.712 0.488 0.183 0.183 0.031 0.031 0.031 0.03217 0.188 0.021 0.021 0.021 0.021 0.03217	(m/s) Max Q D/S 0.32 0.07 0.208 0 0.266 1.28 0.18 1.213 0.276 0.07 0.035 0.246 2.322 0.316 0.507 0.048 1.161 0.712 2.42 2.718 1.161 0.209 0.163 0.214 0.188 0.193 0.214 0.188 0.193 0.214 0.188 0.193 0.217 0.188 0.188 0.193 0.217 0.188 0.193 0.217 0.188 0.188 0.193 0.217 0.188 0.188 0.217 0.188 0.188 0.193 0.217 0.188 0.193 0.217 0.188 0.188 0.193 0.217 0.188 0.193 0.217 0.188 0.188 0.217 0.188 0.193 0.217 0.188 0.188 0.217 0.188 0.035 0.244 0.188 0.188 0.217 0.245 0.188 0.188 0.217 0.245 0.188 0.188 0.217 0.266 0.077 0.045 0.077 0.045 0.045 0.077 0.045 0.047 0.045 0.047 0.045 0.047 0.045 0.047 0.045 0.047 0.048 0.188 0.188 0.037 0.048 0.188 0.035 0.244 0.188 0.193 0.244 0.188 0.035 0.244 0.188 0.035 0.244 0.188 0.047 0.047 0.048 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0.047 0	(m) Safe Q 7,665	HGL (m) Max D 0.054 0.031 0.046 0.053 0.097 0.044 0.095 0.097 0.044 0.095 0.097 0.044 0.095 0.097 0.044 0.095 0.053 0.097 0.044 0.054 0.054 0.024 0.053 0.053 0.053 0.055 0.055 0.055 0.055 0.055 0.055 0.055 0.057 0.054 0.055	Max DxV 0.04 0.03 0.03 0 0.04 0.11 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.04 0.05 0.03 0.04 0.05 0.04 0.05	14.9 10.2 13.3 0.0 14.5 23.3 23.3 12.7 23.0 14.3 10.2 7.9 13.8 28.2 2 14.9 17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2	0.71 0.44 0.81 0 0 0.67 1.02 0.59 1 0.44 0.37 0.44 0.37 0.65 1.19 0.79 0.79 0.79 0.41 0.89 0.87 1.2 1.24 0.89 0.87 1.2 1.24 0.58 0.63 0.59 0.61 0.58 0.65 0.59 0.61 0.58 0.59 0.61 0.58 0.59 0.61 0.58 0.58 0.59 0.61 0.58 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.59	AR&R 2 year AR&R 2 year	Phours storm A hours A	I average 8.3: n, average 10.4 n, average 10.4 n, average 10.4 n, average 8.3: n, average 8.3: n, average 8.3: n, average 8.3: n, average 10.4 n, aver	8 mm/h, Zone 8 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 2 mm/h, Zone 8 mm/h, Zone	1 1 <t< td=""></t<>

DetA_Prop	14.96	12294.1	0.712	0	0.712		4		1	1		
DetC1	15.18		0.321	0.321	0						1	
DetD_Prop	15		2.42	0	2.42		and the state of the		1	1		
DetC2	15,18	70.6		0.304	0					1	1	1
DetC3	15,18	70,7	0,303	0.303	0	-	· · · · · · · · · · · · · · · · · · ·		1			1
DelC4	15.18	72.7	0.316	0.316	Ő							
DetC5	15.17	68.8	0.291	0.291	ŏ						1	1
DetC6	15.19	74.1	0.325	0.325	0		financia in the		+	-		
Deice	15.19	74.1	0.325	0.325	Ų				1			
								1	1	-	-	4.4
CONTINUITY CH					e 1	1				1		
lode	Inflow	Outflow	Storage Chan	the state of the s						1		
	(cu.m)	(cu.m)	(cu.m)	%					1	1		
N4	5908.5	5908.5	0	0					1	1		
N5	192.6	192.6	0	0			1					1
N8	1348.14	1348.14	0	0			1	2				2++
Det8Ex	8645.3	5719,64	2927.67	0			1	1	1	1	1	
OutBEx	5904.76		0	0		·	·					
DetAEx	11214.22	11214.25	0	0			1	1	1	1	1	1
N40	11214.25			0					1	1		1
OUVAEX	11214.25	11214.25		0					1		1	-
OutCEx	20919.38		0	0				1	1	1		
N57	20919.30	20919.00	Commence of the second s	0					-	1	+	
							-	-	1		-	
Det8_Prop	10635.92	3011.81	Contraction of the second science	0								
N62	8598.28	8598.28	0	0						-		
V63	1951.65	1951.65	0	C					-			1
N64	192.6	192.6	0	0				2	1			1
V65	98.42	98.42	0	0	A CONTRACT				1		1	
N69	3300.56	3300.55	0	0				-				
OutB_Prop	3298.29	3298.29	0	0			1		1	1	1	
N75	15821.16	15821.16	G	0	1		1	-	1			1
N76	2236.83	2236.83	0	0			t	1	1	1	1	1
N77	2580.85	2580.85	0	0					1	1		1
N78	140.32	140.32	0	0					1	1	1	1
N79	15036.61	15036.64	0	0					+			1
OutA_Prop	15028.91	15028.91	0	0					1			
DetA_Prop	19576.53	12323.19	7257.09	0					1	-		
	2272.56								1	ł		1
DetC1		2271.95	0.61	0							+	1
DetD_Prop	24129.7	23534.2	597.04	0					1	1	-	1
DetC2	2154.49		0,6	0						4		
DetC3	2150.67	2150.09	0.6	0						1	1	1
DetC4	2241.27	2240.69	0.61	0							-	
DetC5	2062.03	2061.42	0.6	0	1		1		-		1	
DetC6	2307.02	2306.4	0.61	0					-	1	1	
N92	25808.08	25808.09	0	0			1			1		
OutC_Prop	25805.72	25805.72	0	0								
N95	8232.74	8232.74	0	0				1	[1		
N96	1348.14	1348.14	0	0	1				-		· · · · · · · ·	
N97	946.02	946.02	0	0					1	1	1	
N169	1518.43	1518.43	0	0		-	T.	1	1	1	1	
N177	1330.24	1330.24	0	0	7		1		1	1	1	1
1224	1364.68	1364.68	0	0			ť	1	1		1	-
1232	85.98	85.98	0	0					1	1	1	1
			0	0			1	1	+	-	-	
HW2	20919.38	20919.38		in the second						4		
N50	20919.38	20919.38	0	0	-	1.00				-	1	P
N294	1330.24	1330.24	0	0					-	L	4	
	-			· · · · · · · · · · · · · · · · · · ·					-	-	1	1
Run Log for Moor	ebank.dm run a	17:01:52 on 2	/9/2010	S						1	1	(II)

ORAINS Input Data

CHANNEL DETAILS		1	1										1						
Мате	From	To	Туре	Langth	U/SIL	DIS IL	Slope	Base Width	L.B. Slope	R.B. Slope	Manning	Depth	Rooled						_
			15	(m)	(13)	(m)	(%)	(m)	(1.7)	(1:7)	n	(m)							
		· · · · ·						1											
OVERFLOW ROUTE DETAILS								÷1											
Jame	From	To	Travel	Spill	Creat	Weir	Cross		SateDepth	Sale		D/S Area	A CONTRACTOR OF A	ld l		1			
		1	Time	Level	Length	Coeff. C	Section	Major Storms	Minor Storms	0xV	Slope	Contributing	I						l.
	T.	1	(min)	(m)	(m)			(m)	(m)	(sq.m/sec)		%							
DF9	N4	OutBEx		2.1			Dummy used to model flow across road low points	0.2				0)	1051048		- 1			
DF12	N5	N4		1,1		1	Dummy used to model flow across road low points	0.2	0.0			0		1575195		1			
DF26	NB	HW2		0.1			Dummy used to model flow across road low points	0.2				0	1	5847957			·		
DF40	DotBEx	N57		0,1 14		0	1.7 Dummy used to model flow across read low points	0.7					1	12060721			C	- 11 ⁻	
DF1	DetBEx	NA		0,1 13			Dummy used to model flow across road low points	0.2				(}	70					
DF19	DetAEx	N40)	0.1	13		Dummy used to model flow across road low points	0.2			3 1	0		4370450		1	in the second		
DF17	N40	OutAEx		1,1			Dummy used to model flow across road low points	0.2				1 0	1	4370449					
StageDischarge_B	DetB_Prop				14		Dummy used to model flow across road low points	0.2				0	}	13086155			1		
DF43	N62	DetB_Prop		1,1			Dummy used to model flow across road low points	0.2					1	13086141					
DF44	N63	DetB_Prop		<u>ר ב</u>			Dummy used to model flow across read low points	0.2				0	3	13086142					ľ
DF46	N64	NES	1	0.1			Dummy used to model flow across road low points	0.2			3 1	1	7	13086156					_
0F47	N65	NG9	4	75			Dummy used to model flow across road low points	0.2			3 1	[0	2	13086157					
DF51	N69	OutB Prop		0.1			Dummy used to model flow across road low points	0.2	2 0.0	0.1	3 1	6)	13086163	1	the property of		10-1	
DF58	N75	DetA Prop		0.1			Dummy used to model flow across road low points	0.2	0.0	05 D.(3 1	0	3	14111588			-		
DF59	N76	DetA Prop		2.1		1	Dummy used to model flow across road low points	0.2	0.0	05 D.I	5 1	0		14111589		and it is a second or			1
DF60	N77	N79		0.1			Dummy used to model flow across road low points	0.2	0.0	05 D.I	S. 1	(2	14111590			1		
DF61	N78	N79		2,1			Dummy used to model flow across road low points	0.2	0.0	0.0	5 1	1 6	1	14111591		-4 (*	· · · · · ·		
DF64	N79	DutA Prop		0.1	in the state of th		Dummy used to model flow across road low points	0.2		05 0.0	5 1	1 0		14111594					
StageDischarge A	DetA Proc	N79	1	0.1	14		Dummy used to model flow across road low points	0.2	0.0	05 D.I	1	1 0		14111593					
StageDischarge D	DetD Proc	N92		2.1	14		Dummy used to model flow across road low points	0.2	2 0.0	0.1	1	1 0		16137075					
DF102	N92	OutC Prop	S	1.1			Dummy used to model flow across road low points	0.2	0.0	05 D.I	1 1	1		15137087		T	1		
DF101	N95	DetD Prop)	0.1	-		Dummy used to model flow across road low points	0,2	2 0.0	0.0	3 1	1)	15137085	1		1		
DF131	N95	DetD Prop		0.1			Dummy used to model flow across road low points	0.2		D5 D.(3 1	1 0	2	20006340			1		
)F104	N97	N92	1	0,1			Dummy used to model flow across road low points	0.2			3 1	1 0		15137089					
0F205	N169	DetA Prop		0.1			Dummy used to model flow across road low points	0.2			3 1	0		46653710					
F485	N177	HW2		0.1		1	Dummy used to model flow across road low points	0.2	0.0	05 0.0	5 1	0		84070745			1		
0F305	N224	DetD Prop	2	2.1		1	Dummy used to model flow across road low points	0.3	2.0.0	05 D.I	1 1	1 0		66906727		1			T
DF340	N232	DetB Prop		0.1			Dummy used to model flow across road low points	0.2	2 0.0	0.1 D.1	3 1	1 0)	73934575					
DF28	HW2	N50			4.2 2	ol	1.6 Dummy used to model flow across road low points	0.2	0.0	05 0.0	5 1	1 0		5647953		T			
0F30	N50	OutCEx		0.1		1	Dummy used to model flow across road low points	0.2	2 D.C	05 0.0	3 1	1 0		5647967		-			
0F487	N294	N92					Dummy used to model flow across road low points	02		01	3	1 0		84070747					

OF17 2.424 2.424 0.256 0.125 0.15 29.06 1.21 AR&R 2 year, 1.5 hours storm, average 26.3 mm/h, Zone 1 StageDischarge_B 0.041 12.17 0.15 0.256 0.55 AR&R 2 year. 4.5 hours storm, average 13 mm/h. Zone 1 0.15 0.02 OF43 3.635 0.256 0.148 33.55 1.34 AR&R 2 year. 25 minutes storm, average 54.7 mm/h. Zone 1 3.63 0.2 OF44 0 785 0 785 0.256 0.075 0.07 19 72 0.9 AR&R 2 year. 25 minutes storm, average 54.7 mm/h, Zone 1 OF46 0.256 0.59 AR&R 2 year. 2 hours storm, average 22 mm/h, Zone 1 0.42 AR&R 2 year. 2 hours storm, average 22 mm/h, Zone 1 0.18 0.185 0.044 0.03 12.8 OF47 0.06 0.256 0.029 0.01 9.73 0.06 OF51 0.297 0.297 0.256 0.053 0.04 14.68 0.68 AR&R 2 year. 2 hours storm, average 22 mm/h, Zone 1 OE58 7 046 7.046 0.256 0.194 0.31 42 71 1.58 AR&R 2 year, 25 minutes storm, average 54.7 mm/h; Zone 0.9 AR&R 2 year, 25 minutes storm, average 54.7 mm/h, Zone 1 0.07 20.08 0.256 **OF59** 0.819 0.819 0.08 OF60 1.185 0.094 22.77 0.99 AR&R 2 year, 25 minutes storm, average 54.7 mm/h, Zone 1 1.185 0.256 0.09 OF61 0.076 0.076 0.256 0.032 0.01 10.38 0.45 AR&R 2 year, 1 hour storm, average 33.7 mm/h, Zone 1 **OF64** 1,687 1,687 0.256 0.108 0.12 25 64 1.09 AR&R 2 year, 2 hours storm, average 22 mm/h, Zone 1 18 46 StageDischarge_A 0.644 0.644 0.258 0.072 0.06 0.86 AR&R 2 year 4.5 hours storm, average 13 mm/h, Zona OF549 0 0.256 -0 0 Ŧ 2.895 0.135 1.25 AR&R 2 year, 2 hours storm, average 22 mm/h, Zone 1 StageDischarge_D 2.89 0.17 31.03 OF550 0 0.256 0 0 C 0 OF551 0 0 0.256 0 0 0 -0 OF552 0.256 0 0 0 0 0 0 OF553 0 0.256 0 0 -0 0 0 OF554 Ō 0.256 0 0 OF102 3 4 27 3 427 0.256 0 144 0.19 32.83 1.32 AR&R 2 year, 1.5 hours storm, average 26.3 mm/h, Zone 1 0.256 34.44 1 36 AR&R 2 year. 5 minutes storm. average 109 mm/h. Zone 1 OF101 3.907 3.907 0.152 0.21 OF131 0,61 0.617 0.256 0.071 0.06 18.28 0.84 AR&R 2 year, 25 minutes storm, average 54.7 mm/h, Zone 1 OF104 0.268 0.256 14.15 0.67 AR&R 2 year, 1.5 hours storm, average 26.3 mm/h, Zone 1 0.268 0.05 0.03 0.721 OF205 0.076 0.07 19,18 0.88 AR&R 2 year, 5 minutes storm, average 109 mm/h, Zone 1 OF485 0.618 0.256 0.071 0.84 AR&R 2 year, 25 minutes storm, average 54.7 mm/h, Zone 1 0.618 0.08 18.28 0.06 0.84 AR&R 2 year, 5 minutes storm, average 109 mm/h, Zone 1 OF305 0.648 0.648 0.256 0.073 18.64 OF340 0.083 0.083 0.256 0.033 0.02 10.56 0.46 AR&R 2 year, 2 hours storm, average 22 mm/n, Zone 1 **OF28** 0.256 0 5.744 5.744 0.178 0.27 39.65 1.5 AR&R 2 year, 1.5 hours storm, average 26.3 mm/h, Zone 1 0.256 OF30 0.256 0.06 OF487 0.618 0.618 0.071 18.28 0.84 AR&R 2 year, 25 minutes storm, average 54.7 mm/h. Zone 1 OF594 4.88 4.68 0.256 0.167 0.24 37.32 1.44 AR&R 2 year, 25 minutes storm, average 54.7 mm/h, Zone 1 OF593 3.38 3.38 0.256 0.143 0.19 32.65 1.32 AR&R 2 year, 25 minutes storm, average 54.7 mm/h, Zone 1 1.668 1.668 0.256 0.107 0.12 25.46 1.1 AR&R 2 year, 25 minutes storm, average 54.7 mm/h. Zone 1 1.02 AR&R 2 year, 25 minutes storm, average 54.7 mm/h. Zone 1 OF600 0.256 0.096 0.1 23.13 1.258 1.258 DETENTION BASIN DETAILS Mex WL /axVol Max Q Max Q Max Q Name Total Low Leve High Leve DetBEx 14 41 4876.3 0.270 DetAEx 14.03 2581.4 2:424 2.424 7513.2 DetB_Prop 14.84 0.15 0.15 0 DetA_Prop 14.83 11146 0.644 0.644 DetC1 15.4 158.6 1.018 1 018 DetD_Prop 15.2 6864.5 2.895 2 895 152.9 0.964 0.964 15,38 DetC -0 DetC3 15.38 152.7 0.962 0.962 0 DetC4 15.39 157.1 1.004 1.004 0 DetC5 15.37 148.3 0.921 0.921 0 1.034 DetC6 15.4 160.2 1.034 0 CONTINUITY CHECK for AR&R 2 year, 2 hours storm, average 22 mm/h, Zone 1 Storage Chan Difference Node Inflow Outflow (cu.m) (cu.m) (cu.m) 86 2738.3 2738.34 154.26 154 26 0 0 918.7 918.79 3610.1 6196.01 2587.98 DetBEX 0 2734.4 2734.44 OutBEx DetAEx 7860.2 7860.33 M40 7860.3 7860.33 0 0 OutAEx 7860.3 7860.33 0 14438.7 14438.72 OutCEx 0 D DetB_Prop 6943.7 1187,58 5757,1 0 5559.43 5559.47 1315.37 1315.37 0 0 154.2 154.26 78.4 78.4 C 0 1418.31 1418.31 0 0 OutB Prop 1416.37 1416.37 N75 10897.49 10897.5 1507.58 1507.58 C n 1820.5 1820.55 C N78 111.59 111.59 C 0 7109.66 N79 7109.65 0 7101.74 7101.74 OutA_Prop DetA Prop 13428.48 5185.42 8246.99 0 DetC1 1531.66 1530.95 0.72 -0 1042.43 DetD_Prop 16271.57 15231.24 Ő DetC2 1452.11 1451.4 0.71 0 DetC3 1449 53 1448 82 0.71 0 DetC4 1510.59 1509.88 0.71 0 1389.76 1389.05 0.71 0 DetC5 DetC6 1554.88 1554.16 0.72 0 N92 16785 8 16785 88 0 OutC Prop 16781.74 16791.74

N5

N8

N62

N63

N64

N65

N76

N77

N95

N97

N169

N177

N224

N232

HW2

2 Year ARI Results

0

0

0

0

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C

0

0

5548.73

918.7

662 22

1023.4

896.55

919.77

14438.71

68.87

5548.72

918 79

662 22

1023.4

896.55

919.77

68.87

14438.72

0

0

0

0

0

0

0

N50	14438.72	14438.72	0	0								
N294	896.55	896.55	0	0							11.1	
N320	397.73	397.73	0			-	-					
N321	1401.36						-					-
		1401,36	0							_		1
N322	150.04	150.04	0	-		-	A					
N323	4837	4837	0	0	1	-	· · · · · · · · · · · · · · · · · · ·	111	1		1	
N324	168.11	168.11	0	0	1	-	-	· · · · · · · · · · · · · · · · · · ·			*i = i*	
N325	58.52	58.52	10	10	1		1 million 1 million 1	1			2 A A A A A A A A A A A A A A A A A A A	
N326	7512.96	7512.96	0					1	-		1	
N327	5178.06	5178.06	ő	ő	-				1			
the state of the s	a second s	the second se		1.0			-					-
N328	2540.44	2540.44	0	0			-					
N329	1916.51	1916.51	0	0	1	-						1
	· · · · · ·			· · · · · · · · · · · · · · · · · · ·			· · · · · ·	4 · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		0.	· · · · · · · · · · · ·
Run Log for Moorets	ank REV02 ru	n at 10:31:20	on 9/8/2011	1.1	1		-	1			N	
The maximum flow e				rfirm mutes: Of	600 OF594	OF593 OF59	D OF487 OF	485 OF305 O	E205 OE131 C	E104 OF10	2 OF101 Sta	ceDischarge D.C
THE HIGARITUATI NOW C	Accouce ine :	are volue in ur	I I I I I I I I I I I I I I I I I I I	Inder routes. Of	000.01304.	01 000, 01 00	1	103 01 303, 6	200, 01 (01, 0	104, 01 10		gebiacitarge_b, o
an luin a					-			-				
DRAINS results prep	pared us Augu	st, 2011 from 1	Version 2010.0	9			-					
				1			-					
PIT / NODE DETAIL	S			Version 8				+				1 E 2
Name	Max HGL	Max Pond	Max Surface	Max Pond	Min	Overflow	Constraint		-			
		HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)					5	
-			(cu.m/s)	(cu m)	(m)						S	1 T
HW2	12.06	3.217	(op.n.o)	ton-mit.	2.14	0	None					
		0.211			2.14	v	NONE					
N50	11.78		0					4				
			1								Q	11
SUB-CATCHMENT	DETAILS			PP	1	1	1	1				11 E
Name	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm	τ				11
	Flow Q	Max Q	Max Q	Tc	To	To						1
	(cu.m/s)	(cu.m/s)	(cu.m/s)	ເຕັກກາງ	(min)	(min)						
CalchB1Ea	0.07	0			8		APER 2	6 bours store	. average 10.8	mmh 7mm	1	
					°							
CalchC1Ex	0.208	0.179	0.029	7	1		and the set of the set of the set of	and the second sec	, average 10.8	and the same the same to save the		
CatchBEx	1.753	0.684	1.069	14.5	24				average 8.32			1
CalchAEx	2.117	1.235	0.882	13.75	15	0.0	AR&R 2 year	. 6 hours storm	n average 10.8	mm/h, Zone	1	1
CatB1_Prop	0.762	0.762	0	. 6	3	0.0	AR&R 2 year	6 hours storm	average 10.8	mm/h. Zone	1	·
CatB2(Swate) Prop	0.275	0.275	0	9.5	8.5				, average 10.8			
CatB1Ext_Prop	0.275	0.2/5		5	8				1, average 10.8			
	0.07											
CatB2Ext_Prop		0		8.5	15.5				n, average 10.8			
CatA1_Prop	0.708	0.708	0	6	3	0.0	AR&R 2 year	, 6 hours storm	1, average 10,8	mm/h, Zone	1	* 1
CatA2(Swale)_Prop	0.316	0.316	.0	12	11	0.0	AR&R 2 year	. 6 hours storm	n, average 10.8	mm/h, Zone	1	
CatA1Ex_Prop	0.507	0.274	0.233	13.2	8.3	0.0	AR&R 2 year	. 6 hours storm	, average 10 8	mm/h. Zone	1	
CatA2Ex_Prop	0.048	0	0.048	0	18				1, average 8.32			
CatCa_Prop	0.321	0.321	0	3	0				n, average 10.8			
			~									
CatCb_Prop	0,304	0.304	0	3	0			the second s	n, average 10.8	and the second sec		1.0
CalCo_Prop	0.303	0.303	0		0	0.0	AR&R 2 year	, 6 hours storm	1. average 10.8	mm/h. Zone	1	
CatCd_Prop.	0,316	0.316	0	3	0	0.0	AR&R 2 year	, 6 hours storm	n, average 10.8	mm/h. Zone	1	1
CatCe Prop	0.291	0,291	0	3	0	0.0	AR&R 2 year	6 hours storm	, average 10.8	mm/h. Zone	1	
CatCf_Prop	0,325	0.325	0		0				, average 10.8			1.1
CatC2_Prop	1.161	1.161	0		0	1			, average 10.8			
								and the second se	the second s			
CalCEx1_Prop	0.208	0.179	0.029	1	7				n, average 10.8			
CatCEx2_Prop	0.163	0.091	0.071	21.7	25	0.0	AR&R 2 year	, 9 hours storm	n. average 8.32	mm/h, Zone	1	1.1
Cat_A3_Prop	0.214	0.214	0	3	0	0.0	AR&R 2 year	, 6 hours storm	n, average 10.8	mm/h, Zone	1	
Cat Carpark_Ex	0.188	0.188	0	5	0	0.0	AR&R 2 year	6 hours storm	, average 10.8	mm/h, Zone	1	1.1
CatC1_Prop	0.193	0.193	0	3	0				, average 10.8			1.1
CatB3Ext_Prop	0.031	0	0.031	0	8				, average 10.8			
CatchCEx	2.87	1.904	0.966	25	30				average 8.32			
Cat Carpark_Prop	0.188	0.188	0	5	0		the second s	A second property of a second s	, average 10.8	and the second second second second		
Cat1	0.107	0.062		5				and a state of the state of the state of the state	n, average 10.8			
Cat2	0.355	0.24	0.114	7	15	0.0	AR&R 2 year	, 6 hours storm	1, average 10.8	mm/h, Zone	1	
Cat3	0.041	0.024	0.017	4	8				n, average 10,8			11 23
Cat4	1.085	0.949	0.136	5					, average 10.8			
Cat5	0.046	0.026	0.019	6					n, average 10.8			
Cat6	0.016	0.009	0.007	6	8				n average 10.8			
												-
CatA4_Prop	0.489	0.489	0						n average 10.8			
CatA5_Prop	0.552	0.552	0						1, average 10,8			
CatA6_Prop	0.532	0.532	0						n. average 10.8			1
CatB3_Prop	0.401	0.401	0	6	3	0.0	AR&R 2 year	, 6 hours storm	n average 10.8	mm/h, Zone	1	
				1	1							1
		1. T		1			1				1	
Outflow Volumes for	Total Catching	ent (156 immer	VIOUS + 61 6 0	ervious = 218 le	tal hai					-	1	
Storm				Pervious Rund				1				
Solution .											-	
1010 2	cu.m			cu.m (Runoff 9				+				
AR&R 2 year, 6 hou				10993.94 (27.6			-		-		-	
AR&R 2 year, 9 hou				13353.64 (29.0							D	1
AR&R 2 year, 12 ho				15020.40 (29.4		1	1	4			N	1
AR&R 2 year, 18 ho				12482.88 (21.1							5. I	
AR&R 2 year 24 ho				11504.72 (17.5								
and a surface ind	300300.6	and and the		See Drames	- ·			1				
DIDE DETAIL O								1				
PIPE DETAILS			10.000	11				-				-
Name	Max Q	Max V	Max U/S	Max D/S	Due to Storm			1	· · · · · · · · · · · · · · · · · · ·		C	
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)				1			0.	
Pipe13	0.321	15	15.09	14.999	AR&R 2 year	6 hours storm	, average 10.	8 mm/h, Zone	1 1	-	5. E	
P18	0.304	1.5						8 mm/h, Zone			0, T	
P20	0.303	15	15.086					8 mm/h, Zone			1	1.000
P22	0.303	15						8 mm/h, Zone				-
P24	0.291	1,4						8 mm/h, Zone				
P26	0,325	1.5						8 mm/h, Zone			12 21	
P10	3.217	2,1	11.831	11.781	AR&R 2 year.	9 hours storm	, average 8.3	2 mm/h, Zone	1		·,	(1 The second s
				1				11				
CHANNEL DETAILS					1			1	-			
		May W	Chalmin	Mak	Dug to Charl		-	1	-			
Name	Max Q	Max V	Chainage	Max	Due to Storm		-					
	(cu.m/s)	(m/s)	(m)	HGL (m)		1	-					- E 5
		1		1	· · · · · · · · · · · · · · · · · · ·				· · ·		1	1
OVERFLOW ROUT	E DETAILS			1			1		1			
Name	Max O U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max V	Due to Storm				
ivanie												
OF9	0.32	0.32	7.665	0.054	0.04	14.87	10.24	ARSR 2 ueer	9 hours storm	average A 1	2 mm/n Zone	1

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OF305	0.193	0.193				12.89					8 mm/n, Zone	
OF340	0.031	0.031	7.665	0.023	0.01	7.63	0.36	AR&R 2 year.	6 hours storm	1, average 10.	8 mm/h, Zone	1
OF28	0	0		0		0	0				1.00	
OF30	3.217	3.217		0.141		32.11			9 hours storm	average & 9	2 mm/h. Zone	1
OF487	0.188	0.188		0.044		12.89						
											8 mm/h. Zone	
OF594	1.572	1.572		0.105		24.92					8 mm/h, Zone	
OF593	1.084	1.084		0.09		22.05					8 mm/h, Zone	
OF590	0.532	0.532	7.665	0.067	0.05	17.38	D.81	AR&R 2 year.	6 hours storm	1. average 10.	8 mm/h. Zone	1
OF600	0.401	0:401	7.665	0.06	0.04	15.94	0.75	AR&R 2 year.	6 hours storm	n. average 10.	8 mm/h. Zone	1
												1.
	-			1			-					
DETENTION BASI	DETAILO	-		-	-		_	-				-
and share the set of the set of the						-	-			-	-	-
Name	Max WL	MaxVol	Max Q	Max Q	Max Q		-	1			1	
		· · · · · · · · ·	Total	Low Level	High Level	-		1			Pa	1
DetBEx	14.44	5477.2	0.286	0	0.286		1	1.			0	1-
DetAEx	13.95	1865,5	1.28	0	1.28		-	1			1	
DetB Prop	15.08	9649.6					-					
DetA_Prop	14.95	12952.5					-			-	1	1
						_		-			+	
DetC1	15.18	73.4		0.321			-					-
DetD_Prop	15	5388 2						-				
DetC2	15.18	70.8		0.304	0					-	1.2	
DetC3	15,18	70,7	0.303	0.303	0	1	-					
DetC4	15.18	72,7	0.316	0.316	0		·					
DetC5	15,17	68.8		0.291	0	-	-				-	1
DetC6	15.19	74.1		0.325		-					-	1
Delica	15,19	/4/1	0.325	0.325	0							
			1		11 m	-	P					-
CONTINUITY CHE					one 1	1						1
Node	inflow	Outflow	Storage Chang	Difference			7 (1			S 3	
	(cu.m)	(cu.m)	(cu.m)	%			2	·			(1) 2	
N4	5908.61	5908.6		0			1				1	
N5	192.6	192.6				1		N			-	
N8	1348.14	1348.14					-	-		-	-	
	204.211.2.5	1						-			-	-
DetBEx	8645.3	5719.75					- 1.					1
OutBEx	5904.86	5904.86				-	7	-				1
DetAEx	11214.22	11214.25	0	0				1.		-		
N40	11214.25	11214.25	0	0				1				
OutAEx	11214.25	11214.25				-	-				1	
OutCEx	20919.38	20919.38					-				1	
	10286.31	20919.38			-	-	-	-		-		-
DetB_Prop							-				-	-
N62	8248.66	8248.73					C			-	· · · · · · ·	-
N63	1951.65	1951.65					C			-		
N64	192.6	192.6	0	0	1.		P	1	1		1.1	1
N65	98.42	98,42	0	0			A	1			1.1.1. · · · · · ·	
N69	3236.75	3236,75				-	· · · · · · · · ·					1
OutB Prop	3234.5	3234.5					-					1
							-	-				-
N75	16168.73	16168,84										
N76	2236,83	2236,83					1					
N77	2580,85	2580,85				- C					1	
N78	140.32	140.32	0	0							1	
N79	14733.7	14733.74				-	- 1					
OutA_Prop	14726.05	14726.05				-	1				1	
DetA_Prop	19924.3	12020.24						-			1	1
								-			-	
DetC1	2272,56	2271.95		0							-	
DetD_Prop	24129.7	23534,2		0		1	1				1	
DelC2	2154.49	2153.92		0							1	
DetC3	2150.67	2150.09	0.6	0		-	1	1			17	
DetC4	2241.27	2240.69		0				1				
DetC5	2062.03	2061.42					-	-			1	
	and the second se					-					1	
DetC6	2307.02	2306,4					-					-
N92	25808.08	25808.09				1	1				1 1	
OutC_Prop	25805.72	25805.72	0			E - 6	1 1				1	
N95	8232.74	8232.74	0	0		- 1					R	
	1348.14	1348.14									-	1
N96	100,000	1010.14										
N96	040.00	040.00										
N96 N97 N169	946,02 1518,43	946.02 1518.43									9	

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0.44 AR&R 2 year, 6 hours storm, average 10.8 mm/h. Zone 1

0.61 AR&R 2 year. 6 hours storm, average 10.8 mm/h, Zone 1

0.67 AR&R 2 year. 9 hours storm, average 8:32 mm/h. Zone 1 1.02 AR&R 2 year. 9 hours storm, average 8.32 mm/h. Zone 1

0.58 AR&R 2 year, 24 hours storm, average 4.45 mm/h, Zone 1

0.99 AR&R 2 year, 6 hours storm, average 10.8 mm/n, Zone 1

0.67 AR&R 2 year, 6 hours storm, average 10.8 mm/h, Zone 1 0.44 AR&R 2 year, 5 hours storm, average 10.8 mm/n, Zone 1

0.37 AR&R 2 year. 6 hours storm, average 10.8 mm/h, Zone 1

0.64 AR&R 2 year, 12 hours storm, average 6.92 mm/h, Zone 1

1.18 AR&R 2 year, 6 hours storm, average 10.8 mm/h, Zone 1

0.7 AR&R 2 year, 6 hours storm, average 10.8 mm/h, Zone 1

0.79 AR&R 2 year, 6 hours storm, average 10.8 mm/h. Zone 1

0.41 AR&R 2 year, 9 hours storm, average 8.32 mm/h, Zone 1

0.86 AR&R 2 year, 9 hours storm, average 8.32 mm/h, Zone 1

1.2 AR&R 2 year, 6 hours storm, average 10.8 mm/h. Zone

1.24 AR&R 2 year, 6 hours storm, average 10.8 mm/h, Zone 1

0.99 AR&R 2 year. 5 hours storm, average 10.8 mm/n, Zone 1

0.61 AR&R 2 year, 6 hours storm, average 10.8 mm/h, Zone 1

0.58 AR&R 2 year, 9 hours storm, average 8.32 mm/h, Zone 1

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0.59 AR&R 2 year, 6 hours storm, average 10.8 mm/n, Zone 1

0.61 AR&R 2 year. 6 hours storm, average 10.8 mm/n, Zone 1

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1 AR&R 2 year, 12 hours storm, average 6.92 mm/h, Zone 1

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AR&R 2 year, 9 hours storm, average 8.32 mm/h, Zone 1

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OF205

OF485

OF305

StageDischarge_B

StageDischarge_A OF549

StageDischarge_D OF550

OF1

1177	1330,24	1330,24	0	0							
1224	1364.68	1364.68	0	0			1	4	1111	S	
232	85,98	85.98	0	0			1.	1 . The second second	101	1	1.1
W2	20919.36	20919,38	0	0		1,01		1.1	1		
450	20919.38	20919.38	0	0		h 1	1	1.1.2	1	5. J	C14
1294	1330.24	1330.24	0	0	100		1	1. 1	1.	1	4.4
320	567.13	567.13	- 0 -	- 0		1		1.0	1		1.
1321	2021.12	2021.12	0	0		1		1 a			
1322	213.78	213.78	0	0		1.1	1	1.		-	111
1323	7107.89	7107.89	0	0		1	1	1	-		
1324	239.53	239.53	0	0				1.1	1	1	171
1325	83.38	83.38	0	0		1,11	-	1	1	-	
1326	11147.16	11147.2	O	0		41 + 4	1	-	4 - 14	-	
1327	7682.77	7682.86	0	0		1.1.		1	11.1	-	()
1328	3769.31	3769.31	0	0		1	-	1	11	-	
1329	2843.54	2843.54	0	0				1.			
tun Log for Mod	prebank_REV02 run	at 10:31:48 on 9/	3/2011								

DRAINS Mode DRAINS Version:	i Name and F	ile Path: 2010.09 - 5 A		D-Calculations\0	>Civil\Stormw	ater/DRAINS/	Post PEAMioon	rebank_REV02-20110713.dm		
Modeller's Name:	-	Chris McClella	and							
Description:		Moorebank O	SD		_		_	1		1
DRAINS results pre	pared 09 Aug	st, 2011 from	Version 2010.0	9	()		-		DECU	TC
				il and an a					RESUL	
PIT / NODE DETAIL	Mair HGL	Max Pond	Mail Surface	Version 8 Max Pond	Min	Overflow	Constraint		20 YEAR	ARI
		HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)				
HW2	12.76	10.166	(cu.m/s)	(cu.m)	(ns) 1.44	0	None			
N50	12:25		0				100			
SUB-CATCHMENT	DETAILS									
	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm			
	Flow Q (cu.m/s)	Max Q (cu.m/s)	Max Q (cu.m/s)	Tc (min)	Tc (min)	Tc (min)				
CatchB1Ex	0,381	0	0.381	3	.8	0		r, 25 minutes storm, average &		
CatchC1Ex CatchBEx	1.032	0.87	0.163	7	7			r, 25 minutes storm, average 8 r, 2 hours storm, average 35.8		
CatchAEx	7.717	4.854		13,75	15			r, 25 minutes storm, average 8		
CatB1_Prop	3.84	3.84	0	6	3			r, 25 minutes storm, average 8		
CatB2(Swale)_Prop CatB1Ext_Prop	1.26	1.26	0.381	9.5 5	8.5 8			r, 25 minutes storm, average & r, 25 minutes storm, average &		
CatB2Ext_Prop	0.132	0		8.5	15.5	0	AR&R 20 year	r. 2 hours storm, average 35.8	mm/h. Zone 1	
CatA1_Prop CatA2(Swale1_Prop	3.567	3.567	0	6	3			r. 25 minutes storm, average 8 r. 25 minutes storm, average 8		
CatA1Ex_Prop	2.342	1.094	1.248	13.2	8.3	0	AR&R 20 yea	r, 25 minutes storm, average &	37.8 mm/h, Zone 1	
CatA2Ex_Prop CatCa Prop	0.170	1,732		0	18			r: 2 hours storm, average 35.8 r. 5 minutes storm, average 17		
CatCb_Prop	1.642	1.642	0	3	0	0	AR&R 20 yea	r, 5 minutes storm, average 17	75 mm/h, Zone 1	
CatCc_Prop CatCd_Prop	1,639	1,639	0	3	0			r, 5 minutes storm, average 17 r, 5 minutes storm, average 17		
CalCe_Prop	1.571	1.571	0	3	0	0	AR&R 20 year	r, 5 minutes storm, average 17	75 mm/h. Zone 1	
CatCf_Prop	1.758	1.758	0	3	0	0	AR&R 20 yea	r, 5 minutes storm, average 17	75 mm/h. Zone 1	
CatC2_Prop CatCEx1_Prop	6.273 1.032	6.273	0.163	3	07			r, 5 minutes storm, average 17 r, 25 minutes storm, average 8		
CatCEx2_Prop	0.511	0.32		21.7	25	0	AR&R 20 yea	r. 1.5 hours storm, average 42	7 mm/h, Zone 1	
Cat_A3_Prop Cat Carpark_Ex	1.157	1.157	0	3	0			r, 5 minutes storm, average 17 r, 25 minutes storm, average 8		
CatC1_Prop	1.04	1.04	0	3	0	0	AR&R 20 year	r, 5 minutes storm, average 17	75 mm/h, Zone 1	
CatB3Ext_Prop CatchCEx	0.17	6.236		25	8 30			r, 25 minutes storm, average 8 r, 1 hour storm, average 54.4		
Cat Carpark_Prop	0.992	0.992		5	0			r, 25 minutes storm, average 8		
Cat1	0.511	0.33		5	12			r, 25 minutes storm, average 8		
Dat2 Dat3	0.217	1.167	0.403	7	.15			r. 25 minutes storm, average 8 r. 25 minutes storm, average 8		
Cat4	5.457	5.017	0.478	5	15			r, 25 minutes storm, average 8		
Cat6	0.237	0.133	0.104	6	8			r, 25 minutes storm, average 8 r, 25 minutes storm, average 8		
CatA4_Prop	2.461	2,461	0	6	3	0	AR&R 20 yea	r, 25 minutes storm, average 8	37.8 mm/h. Zone 1	
CatA5_Prop CatA6_Prop	2.78	2.78		6	3			r, 25 minutes storm, average 8 r, 25 minutes storm, average 8		
Cat83_Prop	2.02	2.02			3			r, 25 minutes storm, average a		
	_									
Jutflow Volumes for	Total Catchr	ent (156 impe	rvious + 61,6 p	ervious = 218 to	stal ha)				1	
				Pervious Runo						
AR&R 20 year. 5 m	cu.m 31801.12			cu.m (Runoff 9 2092.71 (23.39						
AR&R 20 year, 10 r				5744.31 (41.89			J		1. 2. 2. 1	1
AR&R 20 year, 15 r AR&R 20 year, 20 r				8429.90 (48.99 10624.79 (52.7		-				
AR&R 20 year, 25 r	79775.38	67927.40 (85	55685.65 (97.)	12241.75 (54.3	1%)		+		C 13 - 5 - 5	1
AR&R 20 year, 30 r AR&R 20 year, 45 r				13438.81 (54.6 16616.13 (56.1		-				-
AR&R 20 year, 1 ho	118627.25	102699.03 (8	83567.49 (98.)	19131.53 (57.1	36)		1	-		
R&R 20 year, 1.5				22569.36 (57.2 25092.93 (56.9						-
R&R 20 year, 3 ho	181866.03	158100.23 (8	128950.34 (98	29149.89 (56.8	(%)					
R&R 20 year, 4.5	210977.67	182255.05 (8	149844.19 (99	32410.87 (54.4	%)	i				
PIPE DETAILS			C		1	1				
	Max Q	Max V	Max U/S	Max D/S	Due to Storm	-				
ipe13	(cu.m/s) 1.549	(m/s) 1.4	HGL (m) 15.728	HGL (m) 15,649	AR&R 20 yea	r, 15 minutes :	torm, average	112 mm/h. Zone 1		
18	1.489	1.4	15.716	15.649	AR&R 20 yea	r, 15 minutes :	storm, average	112 mm/h. Zone 1		
20 22	1.487	1.4						112 mm/h. Zone 1 112 mm/h. Zone 1		
24	1.449	1.3	15.707	15.649	AR&R 20 yea	r, 15 minutes :	torm_average	112 mm/h, Zone 1		
26	1.567	1.5	15.731					112 mm/h. Zone 1 2 7 mm/h. Zone 1		
14	10.100	3	(2.303	12.203	ration zu yea	E nachwars st	ant, average 4			
HANNEL DETAILS		May U	Charles	Man	Due to St.					-
lame	Max Q (cu.m/s)	Max V (m/s)	Chamage (m)	Max HGL (m)	Due to Storm					
					÷		· · · · · · · · · · · · · · · · · · ·			
VERFLOW ROUT	E DETAILS	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	MaxV	Due to Storm		
)F9	0.652	0.652	0.256	0.073	0.06	18.64	0.85	AR&R 20 year, 4.5 hours stor		
)F12.)F26	0.381	0.361	0.256	0.059	0.04	15.78		AR&R 20 year, 25 minutes sto AR&R 20 year, 25 minutes sto		
0F26	0.633	0.633		0.088	0.06	18.46		AR&R 20 year, 25 minutes sti AR&R 20 year, 4.5 hours stor		
0F19	6.244	6.244	0.256	0,185	0.28	40.91	1.53	AR&R 20 year, 2 hours storm	, average 35.8 mm/h, Zone	21
DF17 StageDischarge_B	6.244	6,244	0.256	0.185	0.28	40.91		AR&R 20 year, 2 hours storm AR&R 20 year, 4.5 hours stor		
DF43	5.835	5.835	0.256	0.179	0.27	39.83	1.51	AR&R 20 year, 25 minutes sli	orm, average 87.8 mm/n, 2	lone 1
		1.26	0.256	0.096	0.1	23.13	1.02	AR&R 20 year, 25 minutes sto	orm superana 87.8 mm/hr 7	one 1
DF44 DF46	0.381	0.381	0.256	0.050	0.04	15.76		AR&R 20 year, 25 minutes st		

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OF51	0.561	0.561	0.256	0.069	0.06	17.74	0.82	ARAR 20 year, 2 hours stor	m, average 35.8 mm/h, Zon	e 1
OF58	11.31	11.31	0.256	0.23	0.42	49.99		AR&R 20 year, 25 minutes		
OF59	1.315	1.315		0.097	0.1	23.49		AR&R 20 year, 25 minutes :		
OF60 OF61	2.342	2.342		0.123	0.15	28.7		AR&R 20 year, 25 minutes :		
OF64	2.89	2.89	0.256	0.044	0.03	12.71		AR&R 20 year, 2 hours stor AR&R 20 year, 25 minutes :		
StageDischarge_A	0.886	0.886	0.256	0.083	0.08	20.61		AR&R 20 year, 4.5 hours st		
OF549	0	0		0	0	0	0			1
StageDischarge_D	7.154	7.154	0.256	0.194	0.31	42.89	1.59	AR&R 20 year, 1.5 hours st	orm, average 42.7 mm/h, Zo	one 1
OF550	0	0		0	0	0	0	· · · · · · · · · · · · · · · · · · ·		1
OF551	0			0	0	0	0		· · · · · · · · · · · · · · · · · · ·	
OF552	0			0	0	0	0			
OF553 OF554	0			0	0	0	0			
OF102	8.354	8.354		0.207	0.34	45.4		AR&R 20 year, 1.5 hours st	orm average 42.7 mm/h 7/	me 1
OF101	6.273	6.273	0.256	0.185	0.28	40.91		AR&R 20 year, 5 minutes st		
OF131	1.032	1.032	0.256	0.088	0.08	21.69		AR&R 20 year, 25 minutes		
OF104	0.511	0.511	0.256	0,066	0.05	17.2		AR&R 20 year, 1.5 hours st		
OF205	1.157	1,157	0.256	0.092	0.09	22.41		AR&R 20 year, 5 minutes st		
OF485	0.992	0.992	0.256	0.087	0.08	21.33		AR&R 20 year, 25 minutes		
OF305	1.04	1.04	0.256	0.088	0.09	21.69		AR&R 20 year, 5 minutes st		
OF340 OF28	0.17	0.17	0.256	0.043	0.02	12.53	0.58	AR&R 20 year, 25 minutes	storm, average 67.8 mm/n	Zone 1
OF30	10.166	10.166	0.256	0.224	0.39	48.61		AR&R 20 year, 1.5 hours st	om average 42.7 mm/h Zi	one 1
OF487	0.992	0.992	0.256	0.087	0.08	21.33		AR&R 20 year, 25 minutes		
OF594	7.833	7.833	0.256	0,202	0.33	44.32		AR&R 20 year, 25 minutes		
OF593	5.425	5.425	0.256	0.174	0.26	38.75	1.48	AR&R 20 year, 25 minutes	storm, average 87.8 mm/h.	Zone 1
OF590	2.678	2.678	0,256	0,131	0.16	30,13		AR&R 20 year, 25 minutes		
OF600	2.02	2.02	0.256	0,116	0,13	27.26	1.15	AR&R 20 year, 25 minutes :	stomi, average 87.8 mm/h,	Zone 1
										-
DETENTION BASIN	DETAILS									
Name	Max WL	MaxVol	Max Q	Max O	Max Q	-				1
			Total	Low Level	High Level					
DetBEx	14.69	11800.3	0.633	0	0.633					
DetAEx	14.14	3976	6.244	0	6,244					
DetB_Prop	15.47	13109.1	0.21	0	0.21					
DetA_Prop	15.38	19864.6		0	0.886		1			
DetC1 DetD_Prop	15.75	397.6 8894.7	1.549	1,549	7.154	_				
DetC2	15.00	385.7	1.489	1,489	7.134	-				
DetC3	15.73	385.3	1,487	1.487	0	-				1
DelC4	15.74	394.4	1.533	1.533	0					
DetC5	15,72	376.9	1.449	1.449	0					
DetC6	15.75	401.2	1.567	1,567	0					
COLUMN DE COL		10.000								
CONTINUITY CHE	IN IOPAKSR	o year, 2 hour	s storm, averag	IN 133 8 1010/0 7	10001					
	Inflow	Outflow								
NOUE	Inflow (c) m)	Outflow (c) (m)	Storage Chan			_				
	(cu.m)	(cu.m)	Storage Chan (cu.m)				-			
N4			Storage Chan (cu.m) D	Difference %						
Node N4 N5 N8	(cu.m) 4022.48 440.09 1585.5	(cu.m) 4022.48 440.09 1585.5	Storage Chan (cu.m) D 0	Difference % 0 0 0						
N4 N5 N8 DetBEx	(cu.m) 4022.48 440.09 1585.5 13202.29	(cu.m) 4022.48 440.09 1585.5 3587.97	Storage Chan (cu.m) 0 0 9617.2	Difference % 0 0 0 0						
N4 N5 N8 DetBEx OutBEx	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91	Storage Chan (cu.m) 0 0 9617.2 0	Difference % 0 0 0 0 0 0 0						
N4 N5 Det8Ex Out8Ex DetAEx	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78	Storage Chan (cu.m) 0 0 9617.2 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 Det8Ex Out8Ex DetAEx N40	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78 15299.78	Storage Chan (cu.m) 0 0 9617.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 Det8Ex Out8Ex DetAEx	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78	Storage Chan (cu.m) 0 0 9617.2 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 Det8Ex Qut8Ex DetAEx N40 QutAEx	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78 15299.78	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78 15299.78 15299.78	5torage Chan (cu.m) 0 9617.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 Det8Ex Qut8Ex DetAEx N40 QutAEx QutAEx QutCEx Det8_Prop N62	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.78 15299.78 26519.06 11483.98 9127.87	(cu.m) 4022.48 440.09 1585.5 3567.97 4016.91 15299.78 15299.78 26519.06 1615.29 9127.87	Storage Chan (cu.m) 0 9617.2 0 0 0 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 Det8Ex Qut8Ex Det4Ex N40 OutAEx OutAEx OutCEx Det8_Prop N62 N63	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.78 15299.78 26519.06 11483.98 9127.87 2159.65	(cu.m) 4022.48 440.09 1585.5 3567.97 4016.91 15299.78 15299.78 26519.06 1615.29 9.127.87 2159.65	Storage Chan (cu.m) 0 9617.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 DetBEx OutBEx DetAEx OutAEx OutAEx OutAEx OutCEx DetB_Prop N82 N63 N64	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.78 15299.78 26519.06 11483.98 9127.87 2159.65 440.09	(cu.m) 4022.48 440.08 1585.5 3567.97 4016.91 15299.78 152999.78 15299.78 15299.78 15299.78 15299.78 15299.78 1529	Storage Chan (GL.m) 0 9617.2 9617.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 NS N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N64 N65	(cu,m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 224.69	(cu.m) 4022.48 440.09 1535.5 3567.97 4016.91 15299.78 15299.78 15299.78 16519.06 1615.29 9127.87 2159.65 440.09 224.69	Storage Chan (Gu.m) 0 9617.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 Det8Ex Out8Ex DetAEx N40 OutGEx Det8_Prop N62 N63 N64 N65 N66	(cu.m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.78 15299.78 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 224.69 2277.36	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 224.49 2277.35	Storage Chan (Gu.m) 0 9617.2 0 0 9870.06 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 NS N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N64 N65	(cu,m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 224.69	(cu.m) 4022.48 440.09 1535.5 3567.97 4016.91 15299.78 15299.78 15299.78 16519.06 1615.29 9127.87 2159.65 440.09 224.69	Storage Chan (GL.m) 0 9617.2 9617.2 9870.06 0 9870.06 0 0 9870.06 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 Det8Ex Qut8Ex DetAEx N40 OutAEx OutAEx Det8_Prop N62 N63 N64 N65 Qut8_Prop N65 N66 N75 N75	(cu,m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 2274.69 2277.86 2277.86 2277.86 2277.86 2277.86 2277.86 2277.86 2277.85 17592.16 2475.24	(cu.m) 4022.48 440.09 1535.5 3567.97 4016.91 15299.78 15299.78 15299.78 26519.00 1615.29 9127.87 2159.65 440.09 2277.35 277.35 2277.35 2277.35 2277.35 2277.35 2277.35 2277.35 2277.35 2277.35 2277.35 277.3	Storage Chan (Gu.m) 0 9617.2 0 9617.2 0 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 DetBEx QutBEx DetAEx N40 OutGEx DetB_Prop N62 N63 N64 N65 N66 QutB_Prop N75 N76 N76 N76	(cu.m) 4022 48 440.09 1585 5 13202 29 4016,91 15299,78 15299,78 15299,78 26519.06 11483,98 9127,87 2159.65 440.09 2274,69 2274,65 17892 16 2475,24 3610,76	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2274.65 17892.16 2475.24 3610.76	Storage Chan (Gu.m) 0 96 17.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 DetBEx OutBEx DatAEx OutBEx OutAEx OutAEx OutAEx OutAEx OutCEx N63 N63 N63 N64 N65 N64 N65 N64 N65 N69 OutB_Prop N75 N75 N77 N77	(eu,m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 227.36 2277.465 17892.16 247.524 3610.6 247.524 3610.6 320.31	(cu.m) 4022.48 440.09 1585.5 3567.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2277.35 240.99 2277.485 17892.16 2475.24 3610.76 320.31	Storage Chan (GL.m) 0 9617.2 9617.2 9617.2 0 0 0 9870.06 0 9870.06 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1 2 2 2 3 3 4 2 3 4 2 3 3 4 4 5 5 6 7
N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N83 N84 N63 N84 N65 OutB_Prop N75 N75 N75 N75 N76 N77 N78 N78 N79	(eu,m) 4022.48 440.00 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 2274.65 2277.85 17892.16 2475.24 3610.76 320.51 11221.93	(cu.m) 4022 48 440 09 1585 5 3567.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2274.85 2275.85 2275.85 2275.85 2275.85 2275.85 227	Storage Chan (GL m) 0 9617.2 9617.2 0 0 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
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N4 N5 N8 DetBEx OutBEx DetAEx OutAEx OutAEx OutAEx OutAEx OutAEx OutAEx N63 N64 N65 N68 OutB_Prop N75 N76 N77 N77 N77 N77 N77 OutA_Prop DetA_Prop	(eu,m) 4022.48 440.00 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 2274.65 2277.85 17892.16 2475.24 3610.76 320.51 11221.93	(cu.m) 4022 48 440 09 1585 5 3567.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2274.85 2275.85 2275.85 2275.85 2275.85 2275.85 227	Storage Chan (Gu.m) 0 96 17.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
N4 N5 N8 DetBEx OutBEx OutBEx OutBEx OutAEx OutAEx OutAEx OutAEx OutAEx OutAEx OutAEx OutAE N63 N64 N65 N64 OutB_Prop N75 N76 OutA_Prop	(eu,m) 4022.48 440.09 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 227.36 2277.465 17592.16 2277.45 17592.16 2475.24 3610.76 320.31 11221.93 22047.68	(cu.m) 4022.48 440.09 1585.5 3587.97 4016.91 15299.78 15299.78 15299.78 15299.78 15299.78 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2277.35 2277.45 17892.16 2475.24 3610.76 320.31 11221.93 11221.93 7302.25	Storage Chan (GL.m) 0 9617.2 9617.2 0 0 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
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N4 N5 N8 DetBEx OutBEx OutBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N82 N84 N85 N84 N85 N84 OutB_Prop N75 N78 N77 N78 N77 N78 N79 OutA_Prop DetA_Prop DetC_1 DetD_Prop DetC3 DetC4	(eu,m) 4022.48 440.00 1585.5 13202.29 4016.91 15299.77 15299.78 26519.06 11483.98 9127.87 2159.65 440.09 2274.65 2275.24 2480.18 24	(cu.m) 4022 48 440 09 1585 5 3567.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2277.35 2274.65 2274.65 2274.85 2274.85 17882.16 2475.24 3610.76 320.31 11221.93 11221.93 11221.93 225435.83 2383.42 2379.18 2479.43	Storage Chan (GL m) 0 9617.2 9617.2 0 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
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N4 N5 N8 DetBEx OutBEx OutBEx DetAEx OutBEx OutAEx OutAEx OutAEx OutGEx DetB_Prop N82 N84 N85 N84 OutB_Prop N75 N75 N76 N77 N78 N79 OutA_Prop DetC1 DetD_Prop DetC3 DetC4 DetC5 DetC4 DetC6 N82	(cu,m) 4022 48 440,00 1585 5 13202 29 4016,91 15299,77 15299,78 26519,06 11483,98 9127,87 2159,65 440,09 2274,69 2277,86 2277,86 2277,86 2277,86 2277,86 2277,86 2277,86 2277,86 2277,86 2277,86 2277,87 1759,01 1212,03 1759,01 224,69 2274,69 2204,76 2204,76 2204,76 2204,76 2204,76 2214,77 26705,02 2284,16 2284,179 2480,18 2281,79 2480,18 2281,79 2480,18 2281,79 2480,18 2281,79 2480,18 2281,79 2480,18 2281,79 2480,18 2481,79 2	(cu.m) 4022 48 440 09 1385 5 3567.97 4016.91 15299.78 15299.78 15299.78 26519.06 1615.29 9127.87 2159.65 440.09 2277.35 2277.45 1789.216 2475.24 3610.76 320.31 11221.93 11210.53 7302.25 2514.02 25435.83 2383.42 2379.18 2479.43 2284.99 2273.85 2214.99 2254.99 2254.92 25435.83 2383.42 2379.18 2479.43 2284.94 2479.43 2284.95 2284.95 2284.95 2514.05 2515.05 2514.05	Storage Chan (GL m) 0 9617.2 9617.2 9617.2 0 0 0 0 9870.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						2 2
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F1AA003210/D-Calculations/C-Civil/Stormwater/DRAINS/Post PEA/Moorebank_DRAINS_REV02 xlsx

	1			2			
Run Log for Mooreb					1 I		the second because have a second because a second
The maximum flow	exceeded the	safe value in th	he following over	orflow routes: O	F600, OF594,	OF593, OF59	0, OF487, OF485, OF305, OF205, OF131, OF104, OF102, OF101, StageDischarge_D.
DRAINS results pre	pared 09 Augu	ust, 2011 from	Version 2010.0	9			
PIT / NODE DETAIL	5			Version 8			
TALLAR CONTRACT FILTRE	Max HGL	Max Pond	Max Surface	Max Pond	Min	Oventow	Constraint
17/117		HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)	
	1		(cu.m/s)	(cu.m)	(m)	1	
HW2	12.4	6.295			1.8	0	None
N50	12	1	0	I		1	
SUB-CATCHMENT Name	Max	Paved	Grassed	Paved	Grassed	Supp	Due to Storm
lvame	Flow Q	Max Q	Max Q.	To	Tc	To	Due to stolin
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(miin)	
CatchB1Ex	0.139	0	0.139	3	9	0	AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatchC1Ex	0.355	0.298		.7	7	0	AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatchBEx	3,523	1.305	2,218	14.5	24		AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
CatchAEx	3.825	2.059	1.766	13.75	15		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatB1_Prop CatB2(Swale)_Prop	0.459	0.459	0	9.5	8.5		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatB1Ext_Prop	0.139	0,458		5	8		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatB2Ext_Prop	0.071	0		8,5	15.5		AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
CatA1_Prop	1.181	1.181	0	6	3		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatA2(Swale)_Prop		0,526	0	12	11	0	AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatA1Ex_Prop	0,917	0.456	0,461	13.2	8.3		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatA2Ex_Prop	0.101	0		0	18		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatCa_Prop	0,534	0,534	0	3	0		AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
CatCb_Prop CatCc_Prop	0.507	0.507	0	3	0		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatCd_Prop	0.506	0.506	0	3	0		Arkar 20 year, 6 hours storm, average 18 mm/h, Zone 1 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatCe_Prop	0.485	0.485	0	3	0		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatCf_Prop	0.542	0.542	0	3	0		AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
CatC2_Prop	1.936	1.936	0	3	0	0	AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatCEx1_Prop	0.355	0,298	0.057	. 7	7		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatCEx2_Prop	0,322	0.174	0.148	21,7	25		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat_A3_Prop	0.357	0.357	0	3	0		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat Carpank_Ex CatC1_Prop	0.313	0.313	0	5	0		AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatB3Ext_Prop	0.062	0.521	0.062	0	8		AR&R 20 year, 6 hours storm, average 18 mm/h, 2one 1 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatchCEX	5.627	3.633	· · · · · · · · · · · · · · · · · · ·	25	30		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat Carpark_Prop	0.313	0.313	0	5	0		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat1	0,194	0.104	0.089	5	12		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat2	0.629	0.4	0.229	7	15		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat3	0.073	0.039	0.034	4	8		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat4	1.854	1.582	0.271	5	15		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat5	0.082	0.044	0.038	6	8		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
Cat6 CatA4_Prop	0.028	0.015	0.013	6	8		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatA5_Prop	0.815	0.815	0	6	3		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatA6_Prop	0.886	0.886	0	-6	3		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
CatB3_Prop	0.669	0.669	0	6	.3		AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
	F == 11			1	1		
					1		
Outflow Volumes for						· · · · ·	
				Pervious Runo cu.m (Runoff %			
AR&R 20 year. 6 ho							
AR&R 20 year, 9 ho				37341.92 (48.1			
AR&R 20 year. 12 h				42130.17 (48.7			
AR&R 20 year, 18 i	360722.78	301060,31 (8)	257317.38 (99	43742.93 (42.9	9%)		
AR&R 20 year. 241	405077.25	331860.18 (8)	289138.53 (99	42721.65 (37.4	%)	1.1	
	1		1	T	1	E 11	
PIPE DETAILS	Man	May W	May 100	May OIC	Dun to Char		
	Max Q (cu.m/s)	Max V (m/s)	Max U/S HGL (m)	Max D/S HGL (m)	Due to Storm		
Pipe13	(cu.m/s) 0,534	0.5			AR&R 20 yes	r. 6 hours stor	n, average 18 mm/h, Zone 1
P18	0.506	0.5					n, average 18 mm/h, Zone 1
P20	0.505	0,5					n, average 18 mm/n, Zone 1
P22	0.526	0.5		15.48	AR&R 20 yea	r, 6 hours stor	n, average 18 mm/h, Zone 1
P24	0,484	0,4					n, average 18 mm/h. Zone 1
P26	0.542	0.5					n, average 18 mm/h, Zone 1
P10	6.295	26	12.055	12.005	ARGR 20 yea	. o nours stor	n, average 18 mm/h, Zone 1
CHANNEL DETAILS	S					-	
	Max Q	MaxV	Chainage	Max	Due to Storm	1 - 1 - 1	
-	(cu.m/s)	(m/s)	(m)	HGL (m)			
	1	T				-	
OVERFLOW ROUT							
		Max Q D/S	Safe O	Max D	Max DxV	Max Width	Max V Due to Storm
OF9 OF12	1,109	1,109		0.091	0.09	22.23	0.98 AR&R 20 year, 12 hours storm, average 11,7 mm/h, Zone 1
OF12 OF26	0.139	0,139	7.665	0.039	0.02	11.81	0.56 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.72 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
	1 075	1.075		0.037	0.04	21.87	0.98 AR&R 20 year, 12 hours storm, average 11.7 mm/h, Zone 1
OF1		3.46		0.145	0.19	33.01	1.32 AR&R 20 year, 5 hours storm, average 18 mm/h, Zone 1
OF1 OF19	3.46			0,145	0 19	33,01	1.32 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
OF19		3,46	7,665		0.07	19.54	0.88 AR&R 20 year, 18 hours storm, average 9.19 mm/h, Zone 1
OF19	3.46			0.078			
OF19 OF17 StageDischarge_B OF43	3.46 3.46 0.753 1.939	3,46 0,753 1.939	7.665	0.115	0.13	26.9	1.13 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
OF19 OF17 StageDischarge_B OF43 OF44	3.46 3.46 0.753 1.939 0.459	3,46 0,753 1,939 0,459	7.665 7.665 7.665	0.115 0.063	0.05	16.66	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
OF19 OF17 StageDischarge_B OF43 OF44 OF46	3.46 3.46 0.753 1.939 0.459 0.139	3,46 0,753 1,939 0,459 0,139	7.865 7.865 7.665 7.665	0.115 0.063 0.039	0.05	16.66 11.81	0.77 AR&R 20 year, 8 hours storm, average 18 mm/h, Zone 1 0.66 AR&R 20 year, 5 hours storm, average 18 mm/h, Zone 1
OF19 OF17 StageDischarge_B OF43 OF44 OF46 OF47	3.46 3.46 0.753 1.939 0.459 0.139 0.071	3.46 0,753 1.939 0.459 0.139 0.071	7,865 7,865 7,665 7,665 7,665	0.115 0.063 0.039 0.031	0.05 0.02 0.01	16.66 11.81 10.2	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.56 AR&R 20 year, 5 hours storm, average 18 mm/h. Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
0F19 0F17 StageDischarge_B 0F43 0F44 0F46 0F46 0F47 0F51	3.46 3.46 0.753 1.939 0.459 0.139 0.071 0.802	3,46 0,753 1,939 0,459 0,139 0,071 0,802	7.865 7.665 7.665 7.665 7.665 7.665 7.665	0.115 0.063 0.039 0.031 0.079	0.05 0.02 0.01 0.07	16.66 11.81 10.2 19.9	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.56 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.9 AR&R 20 year, 18 hours storm, average 9.19 mm/h, Zone 1
0F19 0F17 StageDischarge_B 0F43 0F44 0F46 0F46 0F47 0F51 0F58	3.46 3.46 0.753 1.939 0.459 0.139 0.071 0.802 3.801	3,46 0,753 1,939 0,459 0,139 0,071 0,802 3,801	7.865 7.865 7.665 7.665 7.665 7.665 7.665 7.665	0.115 0.063 0.039 0.031 0.079 0.15	0.05 0.02 0.01 0.07 0.2	16.66 11.81 10.2 19.9 34.08	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.56 AR&R 20 year, 5 hours storm, average 18 mm/h. Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.9 AR&R 20 year, 18 hours storm, average 9.19 mm/h. Zone 1 1.36 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
0F19 0F17 StageDischarge_B 0F43 0F44 0F46 0F46 0F47 0F51	3.46 3.46 0.753 1.939 0.459 0.139 0.071 0.802	3,46 0,753 1,939 0,459 0,139 0,071 0,802	7.865 7.665 7.665 7.665 7.665 7.665 7.665	0.115 0.063 0.039 0.031 0.079	0.05 0.02 0.01 0.07	16.66 11.81 10.2 19.9	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.56 AR&R 20 year, 5 hours storm, average 18 mm/h. Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.9 AR&R 20 year, 18 hours storm, average 9.19 mm/h. Zone 1 1.36 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.8 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
0F19 0F17 StageDischarge_B 0F43 0F44 0F46 0F46 0F47 0F51 0F58 0F59	3.46 3.46 0.753 1.939 0.459 0.139 0.071 0.802 3.801 0.526	3,46 0,753 1,939 0,459 0,139 0,071 0,802 3,801 0,526	7,865 7,865 7,665 7,665 7,665 7,665 7,665 7,665 7,665	0.115 0.063 0.039 0.031 0.079 0.15 0.067	0.05 0.02 0.01 0.07 0.2 0.2	16.66 11.81 10.2 19.9 34.08 17.38	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.56 AR&R 20 year, 5 hours storm, average 18 mm/h. Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.9 AR&R 20 year, 18 hours storm, average 9.19 mm/h. Zone 1 1.36 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1
0F19 0F17 StageDischarge_B 0F43 0F44 0F46 0F47 0F51 0F51 0F59 0F59 0F60	3.46 3.46 0.753 1.939 0.459 0.739 0.071 0.802 3.801 0.526 0.917	3,46 0,753 1,939 0,459 0,071 0,802 3,801 0,526 0,917	7,865 7,865 7,665 7,665 7,665 7,665 7,865 7,865 7,865 7,865	0.115 0.063 0.039 0.031 0.079 0.15 0.067 0.084	0.05 0.02 0.01 0.07 0.2 0.2 0.05 0.05	16.66 11.81 10.2 19.9 34.08 17.38 20.79	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.56 AR&R 20 year, 5 hours storm, average 18 mm/h, Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.9 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 1.36 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.8 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1 0.9 AR&R 20 year, 6 hours storm, average 18 mm/h, Zone 1
0F19 0F17 StageDischarge_B 0F43 0F44 0F46 0F47 0F51 0F58 0F59 0F59 0F60 0F60 0F61	3.48 3.46 0.753 1.939 0.459 0.139 0.071 0.802 3.801 0.526 0.917 0.101	3,46 0,753 1,939 0,459 0,071 0,802 3,801 0,526 0,917 0,101	7,865 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665 7,665	0.115 0.063 0.039 0.031 0.079 0.15 0.067 0.084 0.035	0.05 0.02 0.01 0.07 0.2 0.05 0.05 0.08 0.02	16.66 11.81 10.2 19.9 34.08 17.38 20.79 10.91	0.77 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.66 AR&R 20 year, 5 hours storm, average 18 mm/h. Zone 1 0.44 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.9 AR&R 20 year, 18 hours storm, average 9.19 mm/h. Zone 1 1.36 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.8 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.94 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.94 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1 0.94 AR&R 20 year, 6 hours storm, average 18 mm/h. Zone 1

F\AA003210\D-Calculations\C-Civil\Stormwater\DRAINS\Post PEA\Moorebank_DRAINS_REV02 xIsx

StageDischarge_D OF560	5.301	5.301	7.665	0.172	0.25	38.4		AR&R 20 yea	r, 6 hours stor	n, average 18	mm/h, Zone 1	_
OF550 OF551	0	0		0	0		0		-			
OF552	0			0	0		0					
OF553	0	0		0	0		0			-		
OF554	0	D		0	0		0		_	1		
OF102	5.918	5.916	7.665	0.18	0.27	40.01		AR&R 20 yea	r, 6 hours stor	n, average 18	mm/h, Zone 1	
OF101	1.936	1.936	7.665	D.115	0.13	26.9	1.13	AR&R 20 yea	r, 6 hours stor	n, average 18	mm/h. Zone 1	
OF131	0.355	0.355	7.665	0.057	0.04	15.41	0.72	AR&R 20 yea	r, 5 hours stor	n, average 18	mm/h. Zone 1	
OF104	0.322	0.322	7,665	0.055	0.04	15.05		AR&R 20 yea				
OF205	0.357	0.357	7.665	0.057	0.04	15.41		AR&R 20 yea				
OF485	0.313	0.313	.7.665	0.054	0.04	14.87		AR&R 20 yea	the second second second		and the second se	
OF305	0.321	0.321	7.665	0.054	0.04	14.87		AR&R 20 yea				
OF340	0.062	0.062	7.665	0.029	0.01	9.73	U 44 0	AR&R 20 yea	r, B hours stor	n, average 18	mm/n. Zone 1	-
OF28 OF30	6.295	6,295	7.665	0.185	0.28	40.81		AR&R 20 yea	E hours stor	D. D. Internate 19	mm/h Zone 1	
OF487	0.200	0.240	7.665	0.165	0.04	14.87		AR&R 20 yea				
OF594	2.621	2.621	7.665	0.13	0.16	29.95		AR&R 20 yea				
OF593	1.806	1.806	7.665	0.111	0.12	26.18		AR&R 20 yea				
OF590	0.386	0.886	7.665	0.083	0.08	20.61		AR&R 20 yea	the set of	and the second se		
OF600	0.669	0.669	7.665	0.074	0.06	18,82	0.85	AR&R 20 yea	r, 6 hours ston	n, average 18	mm/h. Zone 1	
		i						-				
1.1.	1	1			1			12				
DETENTION BASIN		Manda A	1						_			
Name	Max WL	MaxVol	Max Q	Max Q	Max Q		-				-	
DetBEx	11.74	10770 6	Total 1.075	Low Level	High Level 1.075							
DetBEX	14.72	12778,5	1.075	0	3.46		-	-		-	1	
DetB_Prop	15.87	16649.8	0.753	0	0.753		_					
DetA_Prop	15.58	23523.9	0.96	0	0.96	1		-		1		
DetC1	15.53	220.8	0.534	0.534	0							
DetD_Prop	15.48	7982,5	5,301	0	5,301							
DetC2	15.52	217.3	0.506	0.506	0						1	
DetC3	15.52	217.2	0.505	0.505	0				1		1	
DetC4	15.52	219.9		0.526	0		1		1			
DetC5	15.52	214.7	0.484	0.484	0							
DetC6	15,53	221.9	0.542	0.542	0		·			-	-	
CONTINUETY OUT	W for ADAD	O weers & ha	a shore a star	19	on 1	1						
CONTINUITY CHE					Ate 1		-	-				
Node	(cum)	Outflow (cu.m)	Storage Chan (cu.m)	Winevence			-	-				
N4	10685.45	(cu.m) 10685.45		0			-	-				
NS	515.82	615.82	0				-	-				
N8	2381.69	2381.69	0					-			1	1
DetBEx	19264.64	10075.07	9192.23	0	1		J'	-				
OutBEx	10680.01	10680.01	0		11 11		1 ⁰	2	1 1			
DetAEx	22564.03	22564	0		· · · · · · · ·		-		1 1			
N40	22564	22564	0		1		Þ	7				1
OutAEx	22564	22564	0		1	1					4	4
OutCEx	39522.07	39522.07	0			1,	-	-				
DetB_Prop	17382.14	4089.73		0	-	-					1	
N62	13833.99	13834.22	0		-	1	-	-				
N6S N64	3273.11 615.82	3273.11 615.82	0		-							
N65	315.6	315.8	0								-	
N69	5018	5017.98	0					-	1 1			
Out8_Prop	5014.83	5014.63	0		1	1	-		1 - 1			
N75	27116.88	27116.9	0	D		·	-					
N76	3751.43	3751.43	0	0			-		1			
N77	5302.78				1	1		-				
N78	450.42	450.42			· · · · · · · · · · · · · · · · · · ·		1	1 (1		
N79	23086.73	23086.71			i							
OutA_Prop	23074.76	23074.75			_	1			1 ·····			
DetA_Prop	33415.02	17345.45		0						-		
DetC1	3811.34	3810.68					-					
DetC2	40591.9	39837.63 3612.74	752.57	0	1						-	
DetC3	3606.96	3606.32		0				-			-	
DetC4	3758.89	3758.25		0	11	1	2					1
DetC5	3458.23	3457.6		0				-				1
DetC6	3869.14	3868.47	D.66			i,)	-					
N92	43970.65	43970.64	0	0		J		A		J	1	
OutC_Prop	43967.65	43967.65			1	1:	ti				1	
N95	13807,34	13807,34	D									
N96	2381.69	2381.69					-	-				
N97	1905.04	1905.04	0						1			
N169	2546.6	2546,6						-			-	
N177	2230.95	2230.95										
N224 N232	2288,74	2288.74	0									
HW2	39522.06	39522.07	0			-						
N50	39522.00	39522.07	0				1.	-		-		
N294	2230.95	2230.95					1	-				
N320	1140.85	1140.85										
N321	3876.56	3876.56				E		2				
N322	429.89	429.89			1	1						
N323	12498.13	12498.13				i'	£	- C			1 1	
N324	481.67	481.67					1	-			4	
N325	167.68	167.68	0		1 T		P					
	18694.93	18695.02			12							-
N326	12884.85	12884.95	0		1	-	-		-		-	-
N327	the second se											
N327 N328	6321.49	6321.49					-			-		
N327	the second se	6321.49 4768.99					-	-		-		
N327 N328	6321.49 4768.90	4768.99	0				-	-				

DRAINS Version:	Name and F	ne Palh: 2010.09 - 5 A	A set of the set of th	D-Calculations'	Civil\Stormw	ateriORAINS	Post FEA\Mod	orebank_REV02-20110713.dm	
deller's Name:		Chris McClelli	and						
scription:	-	Moorebank O	SD						
AINS results pre	pared 119 Aug	ist 2011 from	Version 2010 (0					
Canvo readita pre	porca da magi		Consider 20104					RESULTS	
T / NODE DETAIL				Version 8	1			100 YEAR A	RI
ame	Max HGL	Max Pond HGL	Max Surface	Max Pond	Min	Overflow	Constraint	100 124114	IXI.
		HGL	Flow Arriving (cu.m/s)	(cu.m)	Freeboard (m)	(cu,m/s)			_
W2	13,38	12.746	Construction of the second	As general	0.82	0	None		
50	13/28		0	J	· · · · · · · · · · · · · · · · · · ·				
UB-CATCHMENT	DETAILS					-			_
ame	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm		-
	Flow Q	MaxQ	Max Q	To	Tc	To			
AND DATE:	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)	100 D 100		
atchB1Ex atchC1Ex	0.465	1.034	0.465	3	8		and a strength of the strength	ear, 20 minutes storm, average 126 mm/h, Zohe 1 ear, 20 minutes storm, average 126 mm/h, Zohe 1	
atchBEx	7.538	3.077	4.462	14.5	24		the second s	ear. 2 hours storm, average 46.1 mm/h, Zone 1	
atchAEx	9.881	5.94	4.252	13.75	15		strates and the second	ear, 20 minutes storm, average 126 mm/h. Zone 1	
atB1_Prop	4.547	4.547	0	6	3 8.5		a second s	ear, 20 minutes storm, average 126 mm/h. Zone 1	
atB2(Swale)_Prop atB1Ext_Prop	1.51	1.51	0.465	9.5	8.5		a beater and a state of a state	ear, 20 minutes storm, average 126 mm/h. Zone 1 ear, 20 minutes storm, average 126 mm/h. Zone 1	
atB2Ext_Prop	0.405	0	0.17	8.5	15.5	-		ear, 1 hour storm, average 69.7 mm/h, Zone 1	
atA1_Prop	4.224	4.224	0	6		0	AR&R 100 ye	ear, 20 minutes storm, average 126 mm/h. Zone 1	
atA2(Swale)_Prop	1.595	1.595	1 5 2 1	12	11	-		ear, 20 minutes storm, average 126 mm/h. Zone 1	
atA1Ex_Prop atA2Ex_Prop	2.808	1.335	1.531	13.2	8.3			ear, 20 minutes storm, average 126 mm/h, Zone 1 ear, 1.5 hours storm, average 54.9 mm/h, Zone 1	
alCa_Prop	2.216	2.216	0.201	3	0			ear, 5 minutes storm, average 224 mm/h, Zone 1	_
atCb_Prop	2.101	2.101	0	3	0	0	AR&R 100 ye	ear, 5 minutes storm, average 224 mm/h, Zone 1	
atCo_Prop	2.098	2,098	0		0			ear, 5 minutes storm, average 224 mm/h, Zone 1	
atCd_Prop atCe_Prop	2.186	2.186	0	3	0		a second second construction	ear, 5 minutes storm, average 224 mm/h, Zone 1 ear, 5 minutes storm, average 224 mm/h, Zone 1	
atCf_Prop	2,25	2,25	0	3	0			ear, 5 minutes storm, average 224 mm/h, Zone 1	
atC2_Prop	8.029	8.029	0	3	0	0	AR&R 100 ye	ear, 5 minutes storm, average 224 mm/h, Zone 1	
atCEx1_Prop	1.231	1.034	0.197	7	7			ear, 20 minutes storm, average 126 mm/h, Zone 1	
atCEx2_Prop at_A3_Prop	0.656	0.391	0.288	21.7	25			ear, 1.5 hours storm, average 54.9 mm/h, Zone 1 ear, 5 minutes storm, average 224 mm/h, Zone 1	
at Carpark_Ex	1 228	1.228	0	5	0			ear, 5 minutes storm, average 224 mm/h, Zone 1	_
atC1_Prop	1.331	1.331	0	3	0	0	AR&R 100 ye	ear, 5 minutes storm, average 224 mm/h, Zone 1	
atB3Ext_Prop	0.208		0.208	0				ear, 20 minutes storm, average 126 mm/h. Zone 1	
atchCEx at Carpark_Prop	10.983	7.698	3.592	25	30			ear, 1 hour storm, average 69.7 mm/h, Zone 1 ear, 5 minutes storm, average 224 mm/h, Zone 1	
at1	0.618	0.378	0.248	5				ear, 25 minutes storm, average 112 mm/h, Zone 1	_
al2	1.639	1.346	0.548	7	15	0	AR&R 100 ye	ear, 25 minutes storm, average 112 mm/h. Zone 1	
at3	0.253	0.142	0.11	4				ear, 25 minutes storm, average 112 mm/h. Zone 1	
at4 at5	6.471	6.212	0.259	5				ear, 5 minutes storm, average 224 mm/h, Zone 1 ear, 25 minutes storm, average 112 mm/h, Zone 1	
al6	0.096	0.053	0.043	6				ear, 25 minutes storm, average 112 mm/h. Zone 1	
atA4_Prop	2.914	2.914	0	6				ear, 20 minutes storm, average 126 mm/h, Zone 1	
atA5_Prop	3.292	1.292	0	6				ear, 20 minutes storm, average 126 mm/h, Zone 1	
atA6_Prop atB3_Prop	2.392	3.171 2.392	0	6				ear, 20 minutes storm, average 126 mm/h, Zone 1 ear, 20 minutes storm, average 126 mm/h, Zone 1	
arbo_r rap	2.002				Ĩ		1110111 100 10		
	Sec. 199	1				1			
utflow Volumes fo									_
lorm	Culm			Pervicus Runo cu.m (Runoff %		-			_
R&R 100 year, 5 m				4452.79 (38.7			-		
R&R 100 year, 10	62511.91	52822.48 (84.	43296.53 (96.	9525.95 (54.0%	(6)	-			
R&R 100 year, 15				13192.22 (59.5					
R&R 100 year, 20 R&R 100 year, 25				16128.35 (62.4 18090.52 (63.0		-			
R&R 100 year, 30				19998.26 (63.7					
R&R 100 year, 45	134273.41	119478.42 (89	94796.08 (98)	24682.35 (65.1	1%)				
R&R 100 year, 1 h				28234.48 (65.8		_			
R&R 100 year, 1.5 R&R 100 year, 2 h				33584.75 (66.2)		1			_
R&R 100 year, 3 h	234855.8	210569.45 (89	166978.94 (99	43590.51 (65.7	7%)				_
R&R 100 year, 4.5				49335.64 (64.1					
DE DETAU -	-			-					
IPE DETAILS ame	Max Q	Max V	Max U/S	Max D/S	Due to Storm	1			_
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)	Date to Storin				-
pe13	1.77	1,6	15.986	15.896				e 224 mm/h, Zone 1	
18	1.693	1,6	15.972					e 224 mm/h, Zone 1	
20	1.69		15,972					e 224 mm/h. Zone 1	
24	1.634	1.0	15.963					e 224 mm/h. Zone 1	_
26	1.793	1.7	15.99	15.896	AR&R 100 ye	ar. 5 minutes	storm, average	e 224 mm/h, Zone 1	
0	12.746	1.8	13.294	13.28	AR&R 100 ye	ar, 1.5 hours s	form, average	e 54.9 mm/n, Zone 1	_
ANNEL DETAIL				2	-				
HANNEL DETAIL	Max Q	Max V	Chainage	Max	Due to Storm	-	-		
	(cu.m/s)	(m/s)	(m)	HGL (m)	pare to storin	-	-		
		1				-			
VERFLOW ROUT									
ame F9	Max Q U/S 1.626	Max Q D/S 1.626	Safe Q 0.256	Max D 0.106	Max DxV 0.12	Max Width 25.28	Max V	Due to Storm AR&R 100 year, 3 hours storm, average 35.9 mm/h. Zone 1	
512	0.465		0.256	0.106	0.12	16.66		AR&R 100 year, 3 hours storm, average 35.9 mm/h, Zone 1 AR&R 100 year, 20 minutes storm, average 126 mm/h, Zone 1	10.1
F26	1.231	1.231	0.256	0.095	0.1	22.95	1,01	AR&R 100 year, 20 minutes storm, average 126 mm/h, Zone 1	
F1	1.572	1,572	0.256	0.105	0.11	24.92		AR&R 100 year, 3 hours storm, average 35.9 mm/h. Zone 1	
F19	8.334	8.334	0.256	0.207	0.34	45.4		AR&R 100 year, 2 hours storm, average 46.1 mm/h. Zone 1	

OF17	8.334	8.334	0.256	0.207	0.34	45.4	1.65	AR&R 100 ye	ar, 2 hours ste	orm, average 4	6.1 mm/h, Zo	ne 1
StageDischarge_B	0.744	0.744	0.256	0.077	0.07	19.36		5 The second	and the second	storm, average		
OF43	6.913	6.913	0.256	0.192	0.3	42.35				s storm, average		
OF44	1.51	1.51	0.256	0.103	0.11	24.57				s storm, average		
OF46	0.465	0.465	0.256	0.063	0.05	16.66				s storm, average		
OF47	0.17	0.17	0.256	0.043	0.02	12.53				m, average 69		
OF51	0.795	0.795	0.256	0.079	0.07	19.9				storm, average	and the second se	
OF58	13.45	13.45	0.256	0.23	0.5	49.99		the second s	a second second second second	s storm, average		
OF59	1.595	1.595	0.256	0.106	0.11	25.1				s storm, averages storm, average		
OF60	2.808	2.808	0.256	0.133	0.17	30.67				s storm, average		
OF61	0.231	0.231	0.256	0.048	0.03	13.61				storm, average		
									and the second second second second			
OF64	3.507	3,507	0.256	0.146	0.19	33.19				s storm, average		
StageDischarge_A		1.127	0.256	0.091	0.09	22.23		ARGR 100 ye	Br. 4.0 nours	storm, average	27.0 mm/n, 2	one i
OF549	0		0.256	0	0	0	0					
StageDischarge_D	7.816	7,816	0,256	0,202	0.33	44.32		ARAR 100 ye	ar, 2 hours ste	orm, average 4	6.1 mm/n, 20	nei
OF550	0		0.256	0	0	0	0		_			
OF551	0		0.256	0	0	0	0			-		
OF552	0		0.256	0	0	0	0					
OF553	0			0	0	0	0					1-1-
OF554	0	-	0.256	0	0	0	0					
OF102	9.195	9.195	0.256	0.215	0.36	47.02				storm, average		
OF101	8.029	8,029	0.256	0.203	0.33	44.68				storm, average		
OF131	1.231	1.231	0.256	0.095	0.1	22.95			and the second se	s storm, averag		
OF104	0.656	0.656	0.256	0.073	0.06	18.64				storm, average		
OF205	1.481	1.481	0,256	0,103	0.11	24.57		and the second sec	and the second second second second	storm, average		and the second sec
OF485	1.228	1.228	0.256	0.095	0.1	22.95				storm, average		
OF305	1.331	1.331	0.256	0.098	0.1	23.67				storm, average		
OF340	0.208	0.208	0.256	0.046	0.03	13.25			ar, 20 minute:	s storm, averag	ge 126 mm/h,	Zone 1
OF28	0	0	0.256	0	-0	0	0					
OF30	12.746	12.746	0.256	0.23	0.48	49.99			and the second second second second	storm, average		
OF487	1.228	1.228	0.256	0.095	0.1	22.95				storm, average		
OF594	9.311	9.311	0.256	0.216	0.37	47.2				s storm, averag		
OF593	6.428	6.428	0.256	0.186	0.29	41.27		and the second sec	and Street of London Man 4 Aug	s storm, averag	A Day Long & a day Line Long	and a second
OF590	3,171	3.171	0.256	0.14	0.18	31.93				s storm, averag		
OF600	2.392	2,392	0.256	0,124	0.15	28.88	1.21	AR&R 100 ye	ar, 20 minutes	s storm, average	ge 126 mm/h.	Zone 1
				1	10			4.5	-			1.2
1	1			ù	1	-			-	1		1.
DETENTION BASIN				1	1				-	-		1+
Name	Max WL	MaxVol	Max Q	Max Q	Max O	-				j		
		15 H	Total	Low Level	High Level	-		1		1		11
DetBEx	14.74	13507.4	1.572	0	1.572							
DetAEx	14.19	4567.1	8,334	0	8.334							
DetB_Prop	15.87	16647.1	0.744	0	0.744	Ŧ.		1. 14	1			1
DetA_Prop	15.76	26773.9	1.127	0	1.127				1			1
DetC1	16.01	606,6	1.77	1.77	0			1		1		
DetD_Prop	15.9	10227.8	7,816	.0	7,816	-			1		÷ 1	
DetC2	15.99	603.0	- 000	1 000								
- OTOL	15.99	592.8	1.693	1.693	0			1	1	1 m m	· · · · · · · · · · · · · · · · · · ·	V
DetC3	15.99	592.8	1.693	1.693	0	-					-	
and the second sec						-						
DetC3	15.99	592.4	1.69	1.69	Ó							
DetC3 DetC4	15,99 16	592.4 602.8	1.69 1.749	1.69 1.749	0							
DetC3 DetC4 DetC5 DetC6	15.99 16 15.98 16,01	592.4 602.8 582.8 610.9	1.69 1.749 1.634 1.793	1.69 1.749 1.634 1.793	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC	15.99 16 15.98 16.01 CK for AR&R 1	592.4 602.8 582.8 610.9 100 year, 1 hou	1.69 1.749 1.634 1.793 Ir storm, averag	1.69 1.749 1.634 1.793 ge 69.7 mm/h, 2	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC	15.99 16 15.98 16,01	592.4 602.8 582.8 610.9	1.69 1.749 1.634 1.793	1.69 1.749 1.634 1.793 ge 69.7 mm/h, 2	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node	15.99 16 15.98 16,01 CK for AR&R 1 Inflow (cu.m)	592.4 602.8 582.8 610.9 00 year. 1 hou Outflow (cu.m)	1.69 1.749 1.634 1.793 Ir storm, averag	1.69 1.749 1.634 1.793 ge 69.7 mm/h, 2	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4	15.99 16 15.98 16.01 CK for AR&R 1 Inflow	592.4 602.8 582.8 610.9 00 year. 1 hou Outflow (cu.m) 3835.18	1.69 1.749 1.634 1.793 In storm, average Storage Chan (cu.m)	1.69 1.749 1.634 1.793 ge 69.7 mm/h, 2	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu.m) 3835.19 497.8	592.4 602.8 582.8 610.9 00 year, 1 hou Outflow (cu.m) 3835,18 497.8	1.69 1.749 1.634 1.793 In storm, average Storage Chan (cu.m)	1.69 1.749 1.634 1.793 ge 69.7 mm/n, 2 Difference % 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4	15.99 16 15.98 16.01 CK for AR&R 1 (cu, m) 3835.19 497.8 1571.57	592.4 602.8 562.0 610.9 00 year_1 hou Outflow (cu.m) 3835.18 497.8 1571.57	1.69 1.749 1.634 1.793 Ir storm, averag Storage Chan (cu m) 0 0 0	1.69 1.749 1.634 1.793 2e 69.7 mm/h, 7 Difference % 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEy	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu.m) 3835.19 497.8 1571.57 13909.94	592.4 602.8 582.8 610.9 100 year, 1 hoc Outflow (cu.m) 3835.18 497.8 1571.57 3343.26	1.69 1 749 1 634 1.793 Ir storm, averag Storage Chan (cu.m) 0	1.69 1.749 1.634 1.793 ge 69.7 mm/h. 2 Difference % 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 Node N4 N5 N8 DetBEy OutBEx	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu.m) 3835.19 497.8 1571.57 13909.94 3829.31	592.4 602.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31	1.69 1.749 1.634 1.793 storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 0 69.7 mm/n. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEy OutBEs DetAEy	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu,m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.35	592.4 802.8 582.6 610.9 00 year. 1 ho: Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39	1.69 1.749 1.634 1.793 Ir storm, averag Storage Chan, (cu m) 0 0 0 10569.69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/h. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEV OutBEx DetAEx N40	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu.m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.35 15759.39	592.4 602.8 582.8 610.9 100 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39	1.69 1.749 1.634 1.793 Ir storm, averag Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 ge 69.7 mm/n. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 DetC6 Node N4 N5 N8 DetBex DetBex DetAEx N40 OutAEx	15.99 16 15.96 16.01 16.01 16.01 0.02 16.02 16.02 16.02 16.02 1571.57 13909.94 3829.31 15759.39 15759.39	592.4 602.8 562.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39	1.69 1.749 1.634 1.793 Ir storm, averag Storage Chan, (cu m) 0 0 0 10569.69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 26 69.7 mm/n. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 Node N4 N5 N8 DetBEy OutBEx DetAEy N40 OutBEx OutAEx OutAEx OutAEx OutAEx	15.99 16 15.98 16.01 Inflow (cu.m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.39 15759.39 15759.39 26769.13	592.4 802.8 582.8 610.9 00 year.1 ho: Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 26769.13	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 0 69.7 mm/n. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEy OutBEx DetAEx N40 OutBEx OutAEx QuiCEx DetB_Prop	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu.m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.35 15759.39 15759.	592.4 802.8 862.6 610.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 15759.39 15759.39	1.69 1.749 1.634 1.793 Ir storm, averag Storage Chan, (cu m) 0 0 0 0 10569.69 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 0 69.7 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx DetBEx DetAEx N40 OutBEx DetAEx DetAEx N40 OutAEx DetAEx DetAEx DetB_Prop- N62	15.99 16 15.98 16.01 CK for AR&R 1 Inflow (cu.m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.35 15759.39 15759.35 15759.39 15759.35 15759.	592.4 602.8 582.6 610.9 100 year. 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39	1.69 1.749 1.634 1.793 Ir storn, averag Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 ge 69.7 mm/h. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 DetC6 Node N4 N5 N8 DetBEx DetBEx DetBEx DetBEx DetAEx N40 OutBEx DetAEx N40 OutAEx DetB_Prop. N62 N63	15.99 16 15.96 16.01 16.01 16.01 16.01 16.01 16.01 16.02 16.01 157.07 13909.94 3825.31 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53	592.4 802.8 582.8 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53	1 69 1 749 1 634 1.793 Jr storm, average Chann (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 26 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 Note N4 N5 N8 DetBEv OutBEx DetAEx DetAEx OutBEx OutAEx OutAEx OutAEx OutAEx OutAEx OutAEx N40 N62 N63 N64	15.99 16 15.98 16.01 16.01 16.01 16.01 16.01 16.01 16.01 16.01 157.8 16.01 197.8 157.50.35 15759.39 15759.39 26769.13 11205.98 8822.22 2101.53 497.8	592.4 802.8 802.8 810.9 00 year. 1 ho: Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8	1.69 1.749 1.634 1.793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.743 1.634 1.793 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 Node N4 N5 N8 DetBEy OutBEx DetAEx N40 OutBEx OutAEx OutAEx OutAEx N40 OutAEx N40 N63 N64 N65	15.99 16 15.98 16.01 15.98 16.01 16.01 16.01 16.01 15.02 16.01 16.05 16.05 15.75	592.4 802.8 862.6 810.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 1	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.739 0 69.7 mm/n, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEW OutBEW OutBEW OutBEW OutBEW OutBEW OutBEW DetAEX DetAEX DetAEX DetB_Prop N62 N63 N64 N65 N69	15.99 16 15.98 16.01 15.98 16.01 CK for AR&R 1 Inflow (cu,m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.35 15759.39 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 2835.49 1856.99 1856.99	592.4 602.8 582.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 38229.31 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49	1.69 1.749 1.634 1.793 Ir storm, everag Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/h. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 Node N4 N4 N5 DetBEv OutBEx DetBEv OutBEx DetAEx DetAEx OutCEx DetAEx OutAEx OutCEx DetAEx N40 OutAEx OutCEx DetAEx N63 N63 N64 N65 N69 QutB_Prop	15.99 16 15.96 16.01 16.01 16.01 16.01 16.01 16.01 16.02 15.75	592.4 802.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.99 1856.99	1,69 1,749 1,634 1,793 Jr storm, average Chann (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 26 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 Node N4 N5 N8 DetBEv OutBEx DetBEv OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N62 N63 N64 N65 N69 OutB_Prop N75	15.99 16 15.98 16.01 15.98 16.01 16.01 16.01 16.01 15.02 16.01 19.02 19.02 15.759.35 15.759.39 26.769.13 11205.98 882.22 2101.53 497.8 25.49 1856.99 1857.95 185	592.4 802.8 802.8 810.9 900 year. 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.425 77410.64	1.69 1.749 1.634 1.793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.743 1.634 1.793 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEv OutBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N64 N65 N69 QutB_Prop N75 N76	15.99 16 15.98 16.01 15.98 16.01 16.01 15.98 16.01 16.01 16.01 17.8 16.01 16.01 16.01 16.01 17.8 16.01 19.78 19.78 15.759.39 15.759.3	592.4 802.8 862.6 810.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15769.39 15769.39 157769.39 15777777777777777777777777777777777777	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.739 0 69.7 mm/n, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEv OutBEx DetAEx N40 OutAEx OutCEx DetAEx N62 N63 N64 N65 N69 OutB_Prop N75 N76	15.99 16 15.98 16.01 15.98 16.01 CK for AR&R 1 Inflow (cu,m) 3835.19 497.8 1571.57 13909.94 3829.31 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.39 15759.35 15759.39 15759.35 15759.39 15759.35 15759.39 15759.39 15759.35 15759.39 15759.35 15759.39 15	592.4 602.8 582.6 610.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15769.13 1008.41 497.8 253.49 1856.99 1854.2	1 69 1 749 1 634 1 779 Ir storm, average Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/h. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 DetC6 Node N4 N5 N8 DetBEv OutBEx DetBEv OutBEx DetAEx OutBEx DetAEx OutAEx OutAEx OutAEx OutAEx OutAEx N40 OutAEx DetAEy N40 OutAEx N40 N40 N40 N40 N40 N40 N40 N40 N40 N40	15.99 16 15.96 16.01 16.01 16.01 16.01 16.01 16.01 16.01 16.01 15.02 15.75	592.4 802.8 582.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 2253.49 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1854.25 17410.64 2408.62 3744.73 360.94	1,69 1,749 1,634 1,793 1,50rage Chann (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 26 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 DetC6 Node Node N4 N5 N8 DetBEv OutBEx DetAEx OutBEx OutBEx OutAEx OutCEx DetAEx N40 OutAEx OutCEx DetB_Prop N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78 N79	15.99 16 15.98 16.01 15.98 16.01 16.01 16.01 16.01 15.02 16.01 17.59.35 15.759.39 15.7	592.4 802.8 802.8 810.9 900 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.25 17410.64 2408.62 3764.73 360.94	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.743 1.634 1.793 pe 69.7 mmh. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0							
DetC3 DetC4 DetC5 DetC5 CONTINUITY CHEC Node N4 N5 N8 DetBEy OutBEx DetAEx N40 OutBEx OutBEx OutAEx N40 OutAEx DetB_Prop. N63 N64 N64 N65 N63 N64 N65 N65 N75 N76 N77 N78 N79 OutA_Prop.	15.99 16 15.98 16.01 15.98 16.01 16.01 15.98 15.78 15.75	592.4 802.8 802.8 810.9 900 year, 1 ho, Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 15759.39 15759.39 15759.39 26766.13 1108.41 8882.22 2101.53 497.8 253.49 1856.29 17410.64 2408.62 3744.73 360.94 9257.31 9245.25	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.739 1.634 1.739 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEy OutBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N64 N65 N69 QutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetA_Prop	15.99 16 15.98 16.01 15.98 16.01 15.98 16.01 15.98 16.01 16.02 15.93 157.939 15759.35 15759.39 15769.39 15769.	592.4 602.8 582.6 610.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15769.33 100.44	1 69 1 749 1 634 1 79 1 634 1 79 1 634 1 79 1 050 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 0 69.7 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 Node N4 N4 N5 DetBEv OutBEx DetBEv OutBEx DetBEv OutBEx DetAEx N40 OutBEx DetAEx DetA_Prop N75 N76 N77 N78 N77 N78 N77 N78 N77 DetA_Prop DetA_Prop DetA_Prop DetA_Prop DetA_Prop DetA_Prop DetA_Prop DetA_Prop	15.99 16 15.96 16.01 16.01 16.01 16.01 16.01 16.01 16.01 16.01 15.02 16.01 15.78 15.78 15.759.39 15.759.3	592.4 802.8 582.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 223.49 1856.99 1857.99 1957.99 1957.99 1957.99 1957.99 19	1 69 1 749 1 634 1.793 Ir storm, averages Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEv OutBEx DetAEv OutBEx OutCEx DetB_Prop N62 N63 N64 N65 N69 OutLPProp N75 N76 N77 N78 N78 N79 OutA_Prop DetC1 DetD_Prop	15.99 16 15.98 16.01 15.98 16.01 16.01 17.00 3835.19 497.8 1571.57 13909.34 3829.31 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 253.49 1856.90 1856.99 1856.99 1856.99 1856.99 1856.99 1857.9 1857.9 1857.9 1856.99 1856.99 1857.9 1857.9 1856.99 1857.9 1856.90 1856.90 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.90 1	592.4 502.8 502.8 502.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.39 1856.39 1856.39 1856.39 1856.39 1856.39 1856.25 17410.64 2408.62 3764.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4	1.69 1.749 1.634 1.793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.743 1.634 1.793 pe 69.7 mmh. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEy OutBEx DetAEx N40 OutAEx OutAEx OutAEx OutAEx N63 N64 N65 N69 QutB_Prop N75 N76 N77 N78 N77 N78 N79 OutA_Prop DetC1 DetC2 DetC2	15.99 16 15.98 16.01 15.98 16.01 16.01 17.07 16.01 15.78 15.78 15.75	592.4 802.8 802.8 810.9 900 year, 1 ho, Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 15759.39 15759.39 15759.39 15759.39 26766.13 1108.41 8882.22 2101.53 497.8 253.49 1856.99 1854.29 1854.29 1854.25 17440.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.739 2.659.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 Vode Vode Vode Vode Vode Vode Vode Vode	15.99 16 15.96 16.01 15.96 16.01 16.01 16.01 16.01 16.01 16.01 15.02 15.75 13.909.94 3825.31 15.759.39 26769.13 15.759.39 26769.13 15.759.39 26769.13 11.205.98 8882.22 2101.53 497.8 253.49 1856.99 2016.85 2016	592.4 802.8 582.6 610.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.99 1854.29 17410.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2314.69	1,69 1,749 1,634 1,793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEx DetAEx OutBEx DetAEx N40 OutAEx QutCEx DetB_Prop N62 N63 N64 N65 N69 QutB_Prop N75 N76 N77 N78 N78 N77 N78 QutA_Prop DetC1 DetD_Prop DetC2 DetC2 DetC3 DetC4	15.99 16 15.98 16.01 15.98 16.01 16.01 175.93 1877.8 1571.57 13909.94 3825.19 15759.39 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 2832.49 1856.95 1857.3 1957.3 1957.3 1857.3 19	592.4 592.4 802.8 582.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.95 17410.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2318.69 2412.24	1.69 1.749 1.634 1.793 1.634 1.793 1.634 1.793 1.634 1.793 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 Vode Vode Vode Vode Vode Vode Vode Vode	15.99 16 15.96 16.01 15.96 16.01 16.01 16.01 16.01 16.01 16.01 15.02 15.75 13.909.94 3825.31 15.759.39 26769.13 15.759.39 26769.13 15.759.39 26769.13 11.205.98 8882.22 2101.53 497.8 253.49 1856.99 2076.85 2076	592.4 802.8 582.6 610.9 00 year, 1 ho. Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.99 1854.29 17410.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2314.69	1,69 1,749 1,634 1,793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEx DetAEx OutBEx DetAEx N40 OutAEx QutCEx DetB_Prop N62 N63 N64 N65 N69 QutB_Prop N75 N76 N77 N78 N78 N77 N78 QutA_Prop DetC1 DetD_Prop DetC2 DetC2 DetC3 DetC4	15.99 16 15.98 16.01 15.98 16.01 16.01 175.93 1877.8 1571.57 13909.94 3825.19 15759.39 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 2832.49 1856.95 1857.3 1957.3 1957.3 1857.3 19	592.4 592.4 802.8 582.6 610.9 00 year, 1 hot Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.95 17410.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2318.69 2412.24	1.69 1.749 1.634 1.793 1.634 1.793 1.634 1.793 1.634 1.793 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEv OutBEx DetAEv OutBEx OutCEx DetAEv N40 OutAEx OutCEx DetB_Prop N62 N63 N64 N65 N69 OutAEv N75 N76 N77 N76 N77 N78 N79 OutA_Prop DetC1 DetC1 DetC2 DetC3 DetC3 DetC4 DetC5	15.99 16 15.98 16.01 15.98 16.01 16.01 17.00 3835.19 497.8 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 253.49 1856.99 1857.3 1927.3 1924.25 2145.32 2244.70 26100.04 2315.88 2415.43 2220.38	592.4 592.4 802.8 582.6 610.9 00 year, 1 ho, Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 26766.13 1108.41 8882.22 2101.53 497.8 253.49 1856.29 17410.64 2408.62 3744.73 360.94 9245.25 5163.68 2445.91 9245.25 5163.68 2445.91 24152.4 2318.81 2314.69 2412.24 2219.2 2483	1.69 1.749 1.634 1.793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.739 1.634 1.739 0.659.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEv OutBEx DetAEx N40 OutBEx OutAEx OutCEx DetB_Prop N62 N63 N64 N65 N69 OutB_Prop N75 N76 N76 N77 N78 N78 N77 N78 N79 OutA_Prop DetC2 DetC2 DetC3 DetC4 DetC4 DetC5 DetC6	15.99 16 15.98 16.01 15.98 16.01 17.07 15.90 16.01 15.78 15.75	592.4 592.4 802.8 582.6 610.9 00 year, 1 ho, Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 26766.13 1108.41 8882.22 2101.53 497.8 253.49 1856.29 17410.64 2408.62 3744.73 360.94 9245.25 5163.68 2445.91 9245.25 5163.68 2445.91 24152.4 2318.81 2314.69 2412.24 2219.2 2483	1.69 1.749 1.634 1.793 Ir storm, average Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEv OutBEx DetAEv OutBEx OutCEx DetAEv N40 OutAEv OutCEx DetB_Prop N62 N63 N64 N65 N69 OutA_Prop N75 N76 N77 N78 N78 N79 OutA_Prop DetC1 DetC2 DetC3 DetC2 DetC3 DetC4 DetC5 DetC5 DetC6 N92 OutC_Prop N55 N95 OutC_Prop N55 N55 OutC_Prop N55 OutC_Prop N55 N55 OutC_Prop N55 N55 OutC_Prop N55 N55 OutC_Prop N5 O	15.99 16 15.98 16.01 15.98 16.01 16.01 17.00 16.01 15.78 16.01 19.00 19.78 15.759.35 15.759.39 26.769.13 15.759.39 26.769.13 11205.98 8882.22 2101.53 497.8 25.3.49 1856.95 1856.95 1856.	592.4 592.4 802.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 25769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.39 1856.39 1856.39 1856.25 17410.64 2408.62 3764.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2314.69 2445.91 24155.4 2314.81 2314.89 2445.91 24155.4 2314.81 2314.85 2445.91 24155.4 2314.81 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 2455.85 2655.65 26697.93 8865.05 26697.93 2665.55 2665.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2775.55	1,69 1,749 1,634 1,793 1,634 1,793 1,634 5torage Chan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 1.634 1.793 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 Node N4 N5 N8 DetBEx OutBEx DetAEx OutBEx OutBEx OutAEx OutAEx OutCEx DetA_prop N62 N63 N64 N65 N69 GutB_Prop N75 N76 N77 N78 N78 N77 N78 OutA_prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 DetC6 N92 GutC_Prop	15.99 16 15.98 16.01 15.98 16.01 16.01 17.02 15.75	592.4 592.4 802.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 26769.13 1108.41 8882.22 2101.53 497.8 223.04.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2318.61 2314.69 2445.91 2415.54 2318.61 2314.69 2445.91 2415.54 2318.61 2314.69 2445.91 2415.54 2318.65 9 2412.24 2219.2 2483 26905.66 26897.93 26905.66 26897.93	1.69 1.749 1.634 1.793 1.634 1.793 1.634 1.793 1.634 1.793 1.634 0.00 1.00569.69 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1.69 1.749 1.634 1.793 1.634 1.793 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEv OutBEx DetAEx N40 OutBEx OutCEx DetB_Prop N62 N63 N64 N65 N69 OutA_Prop DetC1 DetC2 DetC2 DetC3 DetC5 DetC5 DetC5 DetC5 DetC6 N92 OutC_Prop N55 N95 OutC_Prop O	15.99 16 15.98 16.01 15.98 16.01 16.01 17.00 16.01 15.78 16.01 19.00 19.78 15.759.35 15.759.39 26.769.13 15.759.39 26.769.13 11205.98 8882.22 2101.53 497.8 25.3.49 1856.95 1856.95 1856.	592.4 592.4 802.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 15759.39 25769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.39 1856.39 1856.39 1856.25 17410.64 2408.62 3764.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2314.69 2445.91 24155.4 2314.81 2314.89 2445.91 24155.4 2314.81 2314.85 2445.91 24155.4 2314.81 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 24155.4 2314.85 2445.91 2455.85 2655.65 26697.93 8865.05 26697.93 2665.55 2665.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2675.55 2775.55	1.69 1.749 1.634 1.793 Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.739 1.634 1.739 0.659.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEy OutBEx DetAEx N40 OutAEx OutAEx OutAEx OutAEx OutA_Prop N63 N64 N65 N75 N76 N77 N78 N78 N77 N78 N79 OutA_Prop DetC2 DetC3 DetC4 DetC4 DetC5 DetC6 N92 OutC_Prop N95 N96	15.99 16 15.98 16.01 15.98 16.01 17.07 15.90 16.01 15.78 15.78 15.75	592.4 592.4 802.8 582.6 610.9 00 year, 1 ho, Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 15759.39 26766.13 1108.41 8882.22 2101.53 497.8 253.49 1854.29 17410.64 2408.62 3744.73 360.94 9245.25 5163.68 2445.91 9245.25 5163.68 2445.91 2412.24 2219.2 2483 26905.66 26897.93 8865.05 1571.57	1.69 1.749 1.634 1.793 Ir storm, average Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 2000 1							
DetC3 DetC4 DetC5 DetC5 DetC6 Vode Vode Vode Vode Vode Vode Vode Vode	15.99 16 15.96 16.01 15.96 16.01 16.01 16.01 16.01 17.07 1805.19 497.8 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 283.69 1854.29 17410.64 2408.62 2744.73 360.94 9257.3 9245.25 21454.32 2447.09 26100.04 2320 2315.88 2443.41 26905.66 26897.93 8465.05 1571.57 1325.57	592.4 592.4 802.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 157759.39 157757 1325.57 1325.57 15757.57 1325.57 15757.57	1,69 1,749 1,634 1,793 1,634 1,793 1,50736 50736 1,098 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.743 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
DetC3 DetC4 DetC5 DetC6 Node Node N4 N5 N8 DetBEv OutBEx DetBEv OutBEx DetA2 N40 OutBEx DetA2 N40 OutAEx OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N40 OutA2 N53 N40 OutA2 N53 N40 OutA2 N53 N40 OutA2 N53 N40 OutA2 N77 N76 N77 N77 N77 N77 N77 N77 OutA_Prop DetC1 DetC2 DetC3 DetC4 DetC3 DetC4 DetC5 DetC6 N92 OutC2Prop N95 N96 N97 N189	15.99 16 15.98 16.01 15.98 16.01 16.01 17.00 16.01 15.78 15.78 15.75 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 15.759.39 26.769.13 14205.69 15.741.064 2408.62 3744.73 360.94 925.73 360.94 925.73 12220.38 2441.433 2220.38 2443.43 2220.38 2443.43 2220.38 2443.58 2445.55 15.71.57 12.255.7 16.35.06	592.4 592.4 602.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 25769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.39 1856.39 1856.39 1856.39 1856.25 17410.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2314.69 2445.91 24155.4 2314.69 2445.91 24155.4 2314.69 2445.91 2459.5 66 565.65 565.05 1571.57 1325.57 1325.57 1325.57 1635.06 1432.39	1.69 1.749 1.634 1.793 1.634 1.793 1.634 1.793 1.634 1.793 1.634 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.69 1.749 1.634 1.739 1.634 1.793 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
DetC3 DetC4 DetC5 DetC6 Node Node Node NA NB DetBEv OutBEx DetBEv OutBEx DetAEx N40 OutAEx OutCEx DetAEx N40 OutAEx OutCEx DetAEx N40 OutAEx OutCEx DetB_Prop N62 N63 N64 N65 N69 OutAEx OutCEx DetB_Prop DetA_Prop DetA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 DetC5 DetC5 DetC6 N92 OutC_Prop N95 N96 N97 N159 N177	15.99 16.01 15.98 16.01 15.98 16.01 16.01 16.01 16.01 15.98 15.759.35 15.759.39 26.769.13 15.759.39 26.769.13 11205.98 8882.22 2101.53 497.8 25.349 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 26.100.04 220.3 24.47.09 26.100.04 23.20 24.47.09 26.100.04 23.20 24.47.09 26.100.04 23.20 24.47.09 26.100.04 23.20 24.47.09 26.100.04 23.20 24.47.09 26.100.04 23.20 24.47.09 26.00.04 23.20 24.47.09 26.00.04 23.15.85 24.45.35 24.45.35 24.45.35 24.45.35 24.45.35 24.45.35 24.45.35 24.45.35 25.55 24.45.35 26.00.04 23.15.55 24.45.35 26.00.04 23.15.55 24.45.35 26.00.04 23.15.55 24.45.35 26.00.04 23.15.55 24.45.35 26.00.04 23.15.55 26.00.04 23.15.55 24.45.35 26.00.04 23.15.55 24.45.35 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 26.00.04 27.35 26.00.04 26.00.04 27.35 26.00.04 26.00.04 27.35 26.00.04 26.00.04 27.35 26.00.04 26.00.04 26.00.04 27.55 27.45.35 26.00.04 27.45.35 26.00.04 27.45.35 27.45.35 26.00.04 27.45.35 26.00.04 27.45.35 26.00.04 27.45.35	592.4 592.4 602.8 582.6 610.9 00 year, 1 hou Outflow (cu.m) 3835.18 497.8 1571.57 3343.26 3829.31 15759.39 15759.39 25769.13 1108.41 8882.22 2101.53 497.8 253.49 1856.39 1856.39 1856.39 1856.39 1856.39 1856.39 1856.25 17410.64 2408.62 3744.73 360.94 9257.31 9245.25 5163.68 2445.91 24155.4 2314.69 2445.91 24155.4 2314.69 2445.91 24155.4 2314.69 2445.91 2459.5 66 565.65 565.05 1571.57 1325.57 1325.57 1325.57 1635.06 1432.39	1.69 1.749 1.634 1.793 Storage Chan (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mmh. 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
DetC3 DetC4 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 DetBEX OutBEX DetBEX OutBEX DetAEx N40 OutBEX DetAEx DetAEx N40 OutAEX OutAEX OutAEX OutAEX OutAEX OutAEX OutAEX OutAEX OutAEX OutAEX N63 N63 N63 N63 N63 N63 N63 N63 N63 N63	15.99 16 15.98 16.01 15.98 16.01 17.00 15.98 15.71.57 13909.94 3825.19 497.8 15759.35 15759.39 15759.39 26769.13 11205.98 8882.22 2101.53 497.8 253.49 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.99 1856.95 1856.95 1856.95 1857.3 9245.25 21454.32 2447.09 26100.04 2320.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 2484.19 26905.66 2687.93 8865.05 1571.57 1325.57 1635.06 1432.39 1469.49 1469.49	592.4 592.4 802.8 582.6 610.9 00 year, 1 ho, Outflow (cu.m) 3835.18 497.8 1571.57 3343.28 3829.31 15759.39 1655.25 1635.06 26897.93 2885.05 1571.57 1325.57 1325.57 1325.57 14635.06 1453.09 1469.4	1.69 1.749 1.634 1.793 Ir storm, average Storage Chan, (cu m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.69 1.749 1.634 1.793 pe 69.7 mm/n.2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							

F \AA003210\D-Calculations\C-Civil\Stormwater\DRAINS\Post PEA\Moorebank_DRAINS_REV02.xlsx

N50	26769.13	26769.13	0	0		1	
N294	1432.39		0			-	
N320	797.66	797.66	0			-	
N321	2653.85	2653.85	0				
322	300.97	300.97	0	0			
N323	8219.99	8219.99	0	0		10 7 4	
N324	337.22	337.22	0	0		1	
N325	117,4	117.4	0	0		12 1	
N326	12003.26	12003.26	0				
N327	8272.85	8272.86	0			-	
					-	-	
N328	4058.79		0				
N329	3061.96	3061.96	0	0		-	
Ula	territoria dalla	1	the second se	to an other	-		
Run Log for Mooreb	ank_REV02 n	in at 10:34:38	on 9/8/2011		1		
				erflow routes: O	F600. OF594	OF593 OF59	0, OF487, OF485, OF305, OF205, OF131, OF104, OF102, OF101, StageDischarge_D
						1	
DRAINS results prep	cared 00 Aug	at 2011 from	Version 2010 C	0	-	-	
DRAING results prep	pared 05 Augu	ISC, 2011 HOIT	Version 2010.0		-		
	-	-	-		-		
PIT / NODE DETAIL		1		Version 8	1		
Name	Max HGL	Max Pond	Max Surface	Max Pond	Min	Overflow	Constraint
		HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)	
	in the second	1	(cu.m/s)	(cu.m)	(m)		
HW2	13.32	7.698			0.88	0	None
N50	13.28	,	0				
	10.20					-	
OUD CATOLINE	DETAILE	-				-	
SUB-CATCHMENT		0	0	Design	0	0.0	
	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm
	Flow Q	Max Q	Max Q	Tc	Tc	Te	
	(cu,m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)	
CatchB1Ex	0.173	0	0.173	3	8	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatchC1Ex	0.431	0.36	0.071	7	7		AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatchBEx	4,356	1.575	2.782	14.5	24		AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatchAEx	4,693	2.484	2.209		15		AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatB1_Prop	1,533	1.533	0		3		AR&R 100 year, 6 hours storm, average 23.3 mm/h. Zone 1
CatB2(Swale)_Prop	0,554	0.554	0	9.5	8,5	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h. Zone 1
CatB1Ext_Prop	0,173	0	0.173	5	8	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatB2Ext Prop	0.088	n n	0.088	8.5	15.5		AR&R 100 year. 6 hours storm, average 23.3 mm/h, Zone 1
CatA1_Prop	1.424	1.424	0,000		3		AR&R 100 year. 6 hours storm, average 23.3 mm/h, Zone 1
CatA2(Swale)_Prop	0.634	0.634	0		11		AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatA1Ex_Prop	1.126	0.55	0.576	13.2	8,3		AR&R 100 year, 6 hours storm, average 23.3 mm/h. Zone 1
CatA2Ex_Prop	0.126	0	0.126	0	18	0	AR&R 100 year. 6 hours storm, average 23.3 mm/h, Zone 1
CalCa_Prop	0.645	0.645	0	3	0	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatCb_Prop	0.611	0.611	0				AR&R 100 year. 6 hours storm, average 23.3 mm/h, Zone 1
CatCc_Prop	0.61	0.61	0		0		AR&R 100 year. 6 hours storm, average 23.3 mm/h, Zone 1
CatCd_Prop	0.636	0.636	. 0		0		AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatCe_Prop	0.585	0.585	0				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatCf_Prop	0.654	0.654	0	3	10	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatC2_Prop	2,335	2.335	0	3	0	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatCEx1 Prop	0.431	0.36	0.071	7	7		AR&R 100 year. 6 hours storm, average 23.3 mm/h. Zone 1
CatCEx2 Prop	0.395	0.21	0.186	in the second se	25		AR&R 100 year. 6 hours storm, average 23.3 mm/h. Zone 1
	0.431	0.431	0.100		0		
Cat_A3_Prop		-					AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
Cat Carpark_Ex	0.377	0.377	0				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatC1_Prop	0.387	0.387	0	3	0	6	AR&R 100 year. 6 hours storm, average 23.3 mm/h. Zone 1
CatB3Ext_Prop	0.077	0	0.077	0	8	6	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatchCEx	6.889	4.383	2.506	25	30	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
Cat Carpark_Prop	0.377	0.377	0	5	0	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
Call	0.237	0.126	0.112	5	12		AR&R 100 year 6 hours storm, average 23.3 mm/b, Zone 1
Cat2	0.769			7	15		AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
		the second s					
Cat3	0.09	0.047	0.042	4			AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
Cat4	2.249	1.909	0.34				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
Cat5	0.1	0.053	0:047	6	8	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
Cat6	0.035	0.018	0.016	6	8	0	AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatA4 Prop	0.983	0.983	0				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatA5_Prop	1.11	1.11	0				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatA6_Prop	1.069	1,069	0				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
	0.807	0.807	0				AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone 1
CatB3_Prop	0.807	0.807	0	6	3		non no year, o nous sion, average 23.5 min/n, 20ne 1
		-				-	
			1			-	
Outflow Volumes for							
Storm	Total Rainfall	Total Runoff	Impervious Ru	Pervious Runo	ff	-	
	cu.m	cu.m (Runoff	cu.m (Runoff	cu.m (Runoff 9	6)		
AR&R 100 year, 6 h				53571.97 (62.2		· · · · · · · · · · · · · · · · · · ·	
AR&R 100 year. 9 h				58432.74 (6.39			
AR&R 100 year, 12				64376.34 (56.9			
AR&R 100 year, 18				69407.84 (51.8			
AR&R 100 year, 24	539056.13	456777.45 (84	385271.72 (99	71505.73 (47.0	1%)	1	
PIPE DETAILS				-	·		
	Max Q	Max V	Max U/S	Max D/S	Due to Storm		
					Sec to Storm	-	
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)	4040 - 222		
Pipe13	0.631	0.6					orm, average 23,3 mm/h, Zone 1
918	0.598	0,6					orm, average 23.3 mm/h, Zone 1
	0.597	0,6	15.559	15.504	AR&R 100 ye	ear, 6 hours sh	orm. average 23.3 mm/h. Zone 1
20	0.623	0.6	15.564				orm, average 23.3 mm/h, Zone 1
		0.5	15.555				orm, average 23.3 mm/h, Zone 1
22	0 67 7						
222 224	0.572		15.568				orm, average 23.3 mm/h, Zone 1
P22 P24 P26	0.641	0,6			AR&R 100 ye	ar, 6 hours st	orm, average 23.3 mm/h, Zone 1
222 224 226		0.6	13.285	13.28			
222 224 226	0.641			13.28	pr = 11	1	a state in the second
222 224 226 210	0.641 7.698			13.28			
222 224 226 210 CHANNEL DETAILS	0.641 7.698 S	1.1	13.285		Due to Storm		
222 224 226 210 CHANNEL DETAILS	0.641 7.698 S Max Q	1.1 Max V	13.285 Chainage	Мах	Due to Storm		
P22 P24 P26 P10 CHANNEL DETAILS	0.641 7.698 S	1.1	13.285		Due to Storm		
P22 P24 P26 P10 CHANNEL DETAILS Name	0.641 7.698 S Max Q (cu.m/s)	1.1 Max V	13.285 Chainage	Мах	Due to Storm		
P22 P24 P26 P10 CHANNEL DETAILS Name OVERFLOW ROUTI	0.641 7.698 S Max Q (cu.m/s) E DETAILS	1.1 Max V (m/s)	13.285 Chainage (m)	Max HGL (m)			
OVERFLOW ROUT	0.641 7.698 S Max Q (cu.m/s) E DETAILS	1.1 Max V	13.285 Chainage	Мах	Due to Storm Max DxV	Max Width	Max V Due to Storm

OF12 OF26									
OF26	0.173	0.173	7.665	0.043	0.03	12.53	0.59	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h, Zone 1
	0.431	0.431	7.665	0.062	0.05	16.3			rm, average 23.3 mm/h, Zone 1
)F1	2.537	2,537	7.665	0.128	0.16	29.59			rm, sverage 18.2 mm/h, Zone 1
F19	4.585	4 585	7.665	0.162	0.23	36.42		and the second se	rm, average 23.3 mm/h, Zone 1
								the second se	
F17	4,585	4.585	7.665	0,162	0,23	36.42			rm, average 23,3 mm/h, Zone 1
tageDischarge_B	1,842	1.842	7,665	0,112	0,13	26,36			orm, average 15.3 mm/h, Zone 1
)F43	2.34	2.34	7.665	0.123	0.15	28.7	1.19	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h, Zone 1
0F44	0,554	0.554	7.665	0.069	0.06	17,74	0.81	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h, Zone 1
F46	0,173	0.173	7.665	0.043	0.03	12,53			rm, average 23.3 mm/h, Zone 1
0F47	0,086	0.058	7.665	0.034	0.02	10.74			rm, average 23.3 mm/h, Zone 1
				and an an an and a state of the second state of the second state of the second state of the second state of the					
OF51	2.002	2.002	7.665	0,116	0,13	27.26			orm, average 15.3 mm/h, Zone 1
DF58	4,586	4.586	7.665	0.162	0.23	36.42	1,43	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h, Zone 1
OF59	0,634	0.634	7.665	0.072	0.06	18,46	0.84	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h, Zone 1
OF60	1.126	1.126	7.665	0.091	0.09	22,23	0.99	AR&R 100 year. 6 hours sto	rm, average 23.3 mm/h. Zone 1
DF61.	0.126	0.126	7.665	0.038	0.02	11.63			rm, average 23.3 mm/h. Zone 1
OF64	2.7	2.7	7.665	0.131	0.16	30,13			rm, average 18,2 mm/h, Zone 1
stageDischarge_A	1.925	1.925	7.665	0.114	0.13	26.72	1.14	AR&R 100 year. 12 hours st	orm, sverage 15.3 mm/h, Zone 1
DF549	0	0	7.665	0	0	0	0		
StageDischarge_D	6.735	6.735	7.665	0.19	0.3	41.99	1.56	AR&R 100 year. 6 hours sto	rm, average 23.3 mm/h. Zone 1
DF550	0	0	7.665	0	0	0	0		
DF551	0	0		0		0	0		
	0					ő			
DF552				0			0		
DF553	0		7.665	0		0	0		
DF554	0	0	7.665	0	0	Ö	0		
DF102	7.507	7.507	7.665	0.198	0.32	43.6	1.61	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h. Zone 1
0F101	2.335	2,335	7,665	0.123	0.15	28.7			rm, average 23.3 mm/h, Zone 1
0F131	0.431	0.431	7.665	0.062	0.05	16:3			rm, average 23.3 mm/h. Zone 1
					and the second se				
0F104	0.395	0.395	7.665	0.06	0.04	15.94			rm. average 23.3 mm/h. Zone 1
7F205	.0.431	0.431	7.665	0.062	0.05	16.3	0.76	AR&R 100 year, 6 hours sto	rm, average 23.3 mm/h, Zone 1
)F485	0.377	0.377	7.665	0.059	0.04	15.76	0.72	AR&R 100 year, 6 hours sto	rm. average 23.3 mm/h. Zone 1
0F305	0.387	0.387	7.665	0.059	0.04	15.76			rm, average 23.3 mm/h, Zone 1
0F340	0.077	0.0077	7.665	0.032	0.01	10.38			rm. average 23.3 mm/h. Zone 1
							0.90	1 10013 510	in stange zota humin zone i
DF28	0		7.665	0	0	0	0		
DF30	7.698	7.698	7.665	0.201	0.32	44.14			rm, average 23.3 mm/h, Zone 1
DF487	0,377	0.377	7.665	0.059	0,04	15,76	0.72	AR&R 100 year, 6 hours sto	rm, average 23,3 mm/h, Zone 1
0F594	3,162	3.162	7.665	0.14	0,18	31,93			rm, average 23,3 mm/h, Zone 1
OF593	2.179		7.665	0.12	0.14	27.98			rm, average 23.3 mm/h, Zone 1
DF590	1,069	1.069	7.665	0.089	0,09	21.87		the second s	rm, average 23.3 mm/h, Zone 1
					Contraction of the local data				
DF600	0.807	0.807	7:665	0.079	0,07	19.9	0,91	ARAR 100 year, 5 hours sto	rm, average 23.3 mm/h, Zone 1
		16 m			1				
DETENTION BASIN	NDETAILS					- 11		· · · · · · · · · · · · · · · · · · ·	
Vame	Max WL	MaxVa	Max Q	Max O	Max O				
		and the	Total	Low Level	Righ Level	-			
DetBEx	14.77	14734	2.537						
				0					
DetAEx	14.1	3385.6	4.585	0					
DetB_Prop	15.9	16986.2	1.842	0	1.842				
DetA_Prop	15.86	28749	1.925	0	1.925				
DelC1	15.58	264.1	0.631	0.631	0	- 1		+	
DetD_Prop	15.5	8112.2	6.735	0	6.735				
			0.598						
DetC2	15.57	258							
				0.598	- 0				
DetC3	15.57	257.8	0.597	0.597	0		-		
DetC3 DetC4	15.57								
		257.8	0.597	0.597	0				
DetC4 DetC5	15.58 15.57	257.8 262.5 253.4	0.597 0.623 0.572	0.597 0.623 0.572	0 0 0				
DetC4 DetC5	15.58	257.8 262.5	0.597	0.597	0				
DetC4 DetC5 DetC6	15.58 15.57 15.58	257.8 262.5 253.4 266	0.597 0.623 0.572 0.641	0.597 0.623 0.572 0.641	0 0 0 0				
DetC4 DetC5 DetC6 CONTINUITY CHE0	15.58 15.57 15.58 CK for AR&R	257 8 262.5 253.4 256 00 year, 6 hou	0.597 0.623 0.572 0.641 rs storm, avera	0.597 0.623 0.572 0.641 age 23.3 mm/h.	0 0 0 0				
DetC4 DetC5 DetC6	15.58 15.57 15.58 CK for AR&R	257 8 262.5 253,4 266 00 year, 6 hou Outflow	0.597 0.623 0.572 0.641 storm, avera	0.597 0.623 0.572 0.641 sge 23.3 mm/h. Difference	0 0 0 0				
DetC4 DetC5 DetC6 CONTINUITY CHE0	15.58 15.57 15.58 CK for AR&R	257 8 262.5 253.4 256 00 year, 6 hou	0.597 0.623 0.572 0.641 rs storm, avera	0.597 0.623 0.572 0.641 age 23.3 mm/h.	0 0 0 0				
DetC4 DetC5 DetC6 CONTINUITY CHEC	15.58 15.57 15.58 CK for AR&R	257 8 262.5 253.4 266 00 year, 6 hou Outflow (cu.m)	0.597 0.623 0.572 0.641 storm, avera	0.597 0.623 0.572 0.641 oge 23.3 mm/h. Difference	0 0 0 2 2 one 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode 14	15.58 15.57 15.58 CK for AR&R : Inflow (cu.m) 18364.09	267 8 262.5 253.4 266 00 year, 6 hou Outflow (cu.m) 18364.06	0.597 0.623 0.572 0.641 rs storm, avera Storage Chan- (cu:m)	0.597 0.623 0.572 0.641 oge 23.3 mm/h. Difference %	0 0 0 2 2 one 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode 14 15	15.58 15.57 15.58 CK for AR&R Inflow (cu.m) 18364.09 934,22	257 8 262.5 253.4 266 00 year, 6 hou Outflow (cu.m) 18364.06 934.22	0.597 0.623 0.572 0.641 Ins storm, aven Storage Chan (cu.m) 0 0	0.597 0.623 0.572 0.641 0ge 23.3 mm/h. Difference % 0 0	0 0 0 2 one 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode 14 15 18	15.58 15.57 15.58 CK for AR&R (cu.m) 18364.09 934.22 3145.34	257 8 262 5 253,4 266 00 year, 5 hou Outflow (cu.m) 18364.06 934.22 3145,34	0.597 0.623 0.572 0.641 rrs storm, avera Storage Chan- (cu.m) 0 0 0	0.597 0.623 0.572 0.6410	0 0 0 2 2 0 2 0				
DetC4 DetC5 CONTINUITY CHE0 lode 14 15 18 DetBEx	15.58 15.57 15.58 CK for AR&R (cu.m) 18364.09 994.22 3145.34 27171.37	257 8 262,5 253,4 266 00 year, 5 hou Outflow (cu.m) 18364.06 934.22 3145,54 17435,48	0.597 0.623 0.572 0.641 ars storne, even Storage Chan- (cu.m) 0 0 0 0 9738.29	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode 14 15 DetBEx DetBEx DutBEx	15.58 15.57 15.58 CK for AR&R - inflow (cu.m) 18364.09 934,22 3145.34 27171.37 18358.44	257 8 262 5 253 4 266 00 year, 5 hot Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44	0.597 0.623 0.572 0.641 Irs storm, avere Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0	0.597 0.623 0.572 0.641 	0 0 0 2one 1				
DetC4 DetC5 DetC6 CONTINUITY CHE0 Jode 44 45 45 DetBEx DetBEx DetAEx	15.58 15.57 15.58 CK for AR&R 1 Inflow (cu.m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.18	257 8 262.5 253.4 266 00 year. 5 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08	0.597 0.623 0.572 0.641 Irs storm, evera Storage Chan. (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode 14 15 DetBEx DetBEx DutBEx	15.58 15.57 15.58 CK for AR&R - inflow (cu.m) 18364.09 934,22 3145.34 27171.37 18358.44	257 8 262 5 253 4 266 00 year, 5 hot Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44	0.597 0.623 0.572 0.641 Irs storm, avere Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0	0.597 0.623 0.572 0.641 ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Node 14 15 DetBEx DetBEx DetBEx DetAEx 140	15.58 15.57 15.58 CK for AR&R 1 Inflow (cu.m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.18	257 8 262.5 253.4 266 00 year. 5 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08	0.597 0.623 0.572 0.641 Irs storm, evera Storage Chan. (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 0.641 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
DetC4 DetC5 CONTINUITY CHE4 lode 14 15 16 DetBEx DetBEx DetAEx 140 DotAEx	15.58 15.57 15.58 15.58 16.60 (cu.m) 18364.09 994.22 3145.34 27171.37 18358.44 30999.08 30999.08	257 8 262.5 253.4 266 00 year, 6 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08	0.597 0.623 0.572 0.641 rrs storm, avere Storage Chan- (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 sge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode H4 H5 DetBEX DetBEX DetBEX DetBEX DetBEX DetAEX DetAEX DetAEX DetAEX DetAEX	15.58 15.57 15.58 CK for AR&R - Inflow (cu.m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.08 30999.08 53292.53	257 8 262 5 253 4 266 00 year, 5 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08	0.597 0.623 0.572 0.641 Irs storm, avere Storage Chan- (cu m) 0 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 sge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Jode 44 J5 J0 DetBEX DetBEX DetBEX DetAEX J40 DutAEX DutAEX DutAEX DutAEX DetB_Prop	15.58 15.57 15.58 15.68 (cu.m) 15364.09 934.22 3145.34 27171.37 18358.44 30999.08 30999.08 30999.08 30999.08	257 8 262 5 253 4 266 00 year, 5 ho Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08	0.597 0.623 0.572 0.641 Irs storage Chan- (cu.m) 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Node 44 15 DetBEx DutBEx DutBEx DetAEx H40 DutAEx DutCEx DetB_Prop 162	15.58 15.57 15.58 15.58 15.58 (cum) 18364.09 994.22 3145.34 27171.37 18358.44 30999.18 30999.08 30999.08 30999.08 53292.53 22606.23 17945.34	257 8 262 5 253 4 266 00 year, 6 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08	0.597 0.623 0.572 0.641 rs storn, avera Storage Chan. (cu.m) 0 0 0 9738.29 0 0 0 9738.29 0 0 0 0 9738.29 0 0 0 15664.28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Ioda I4 I5 DetBEx DetBEx DetAEx	15.58 15.57 15.58 15.58 15.68 (cu.m) 18364.09 994.22 3145.34 27171.37 18358.44 30999.18 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 317945.34 4245.87	257 8 262 5 253 4 266 00 year, 6 hox Outflow (cu.m) 18364.06 934.22 3145,34 17435.48 18358.44 30999.08 30999.09 30999.09 53292.53 8945.49 17945.38 4245.67	0.597 0.623 0.572 0.641 rrs storm, avere Storage Channi (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC5 CONTINUITY CHE4 Ioda Id DetBex DutBex DutBex DetAex Id0 DutAex DutCex DetB_Prop I62	15.58 15.57 15.58 15.58 15.58 (cum) 18364.09 994.22 3145.34 27171.37 18358.44 30999.18 30999.08 30999.08 30999.08 53292.53 22606.23 17945.34	257 8 262 5 253 4 266 00 year, 6 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08	0.597 0.623 0.572 0.641 rs storn, avera Storage Chan. (cu.m) 0 0 0 9738.29 0 0 9738.29 0 0 0 0 9738.29 0 0 0 15664.28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 sge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Ioda I4 I5 DetBEx DetBEx DetAEx	15.58 15.57 15.58 15.58 15.68 (cu.m) 18364.09 994.22 3145.34 27171.37 18358.44 30999.18 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 317945.34 4245.87	257 8 262 5 253 4 266 00 year, 6 hox Outflow (cu.m) 18364.06 934.22 3145,34 17435.48 18358.44 30999.08 30999.09 30999.09 53292.53 8945.49 17945.38 4245.67	0.597 0.623 0.572 0.641 rrs storm, avere Storage Channi (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 sge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
DetC4 DetC5 DetC6 CONTINUITY CHE4 Iode 14 15 16 DetBEx DetBEx DetBEx DetBEx DetAEx DetAEx DetAEx DetAEx DetAEx DetBER DetAEx	15.58 15.57 15.58 15.57 15.58 (cu.m) 15364.09 934.22 3145.34 27171.37 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 322608.23 17945.34 4245.87 9334.22 478.88	257 8 262 5 253 4 266 00 year, 5 ho Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 3099.08 3009.08 300000000000000000000000000000000000	0.597 0.623 0.572 0.641 Irs storm, evera Storage Chan- (cu.m) 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
letC4 JetC5 JetC6 CONTINUITY CHE4 Jode JetBex JetBex JetBex JetAEx Je	15.58 15.57 15.58 15.58 (cum) 18364.09 994.22 3145.34 27171.37 18358.44 30999.08 30099.08 30090.08 30090.08 30090.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 300000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 30000.08 300000.08 300000.08 300000.08 30000000000	257 8 262 5 253 4 266 00 year, 6 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 33292.53 8945.49 17945.38 4245.67 934.22 478.68 8354.63	0.597 0.623 0.572 0.641 irs storm, even Storage Chan. (cu.m) 0 0 0 0 9738.29 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
letC4 JetC5 JetC5 CONTINUITY CHE4 Jods 14 15 16 JetBEx JetBEx JetAEx	15.58 15.57 15.58 15.58 15.58 15.58 15.58 (cu.m) 18364.09 994.22 3145.34 27171.37 18358.44 30999.18 30999.08 30999.08 53292.53 22608.23 17945.34 4245.87 934.22 478.68 8354.83 8351.38	257 8 262 5 253 4 266 00 year, 6 hot Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.09 53292.53 8945.49 17945.38 4245.67 934.22 478.68 8354.63 8354.63	0.597 0.623 0.572 0.641 irs storm, avera Storage Channi (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
letC4 JetC5 JetC6 CONTINUITY CHE4 Jode 44 J5 JetBEx Je	15.58 15.57 15.58 15.57 15.58 (cu.m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.08 53292.53 22608.23 17945.34 4245.87 934.22 478.68 8351.38 3351.38	257 8 262 5 253 4 266 00 year, 5 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 33999.08 33999.08 33995.03 3099.08 33995.03 3351.85 8354.83 4245.87 934.22 478.68 8351.38 8351.86	0.597 0.623 0.572 0.641 Irs storm, evere Storage Chan- (cu m) 0 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
letC4 JetC5 JetC6 CONTINUITY CHE4 Jode JetBEx JetBEx De	15.58 15.57 15.58 15.57 15.58 (cu.m) 15364.09 934.22 3145.34 27171.37 18358.44 30999.08 30099.08 3009000000000000000000000000000000000	257 8 262 5 253 4 266 00 year, 5 ho Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 33222.53 6845.49 17945.38 4245.67 934.22 478.68 8354.83 8351.36 8351.76.05 4866.35	0.597 0.623 0.572 0.641 Irs storm, evera Storage Chan- (cu.m) 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
letC4 letC5 letC6 contrinuitry CHE4 lode 4 4 letBEx	15.58 15.57 15.58 15.57 15.58 (cu.m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.08 53292.53 22608.23 17945.34 4245.87 934.22 478.68 8351.38 3351.38	257 8 262 5 253 4 266 00 year, 5 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 33999.08 33999.08 33995.03 3099.08 33995.03 3351.85 8354.83 4245.87 934.22 478.68 8351.38 8351.86	0.597 0.623 0.572 0.641 Irs storm, evere Storage Chan- (cu m) 0 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
letC4 letC5 letC6 CONTINUITY CHE4 lode 4 4 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cum) 18364.09 934.22 3145.34 27171.37 18358.44 30999.08 309990.08 30000000000000000000000000000000000	257 8 262 5 253 4 266 00 year, 5 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 33222 53 8945.49 17945.38 4245.67 934.22 478.68 8354.83 8351.38 335176.05 4866.35 7329.11	0.597 0.623 0.572 0.641 irs storm, evera Storage Chan. (cu.m) 0 0 0 9738.29 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
etC4 letC5 letC5 continuuity CHE4 lode 44 15 16 letBEx butBEx butBEx letAEx	15.58 15.57 15.58 (cu.m) 18364.09 994.22 3145.34 27171.37 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 3309.08 3309.08 3309.08 3309.08 3309.08 3309.09 3309.08 3309.08 3309.08 3309.08 3009.08 3309.08 3400.08 3400.08 3400.08 3500.08 3400.08 3400.08 3500.0800.0800.0800.08000.08000000000000	257 8 262 5 253 4 266 00 year, 5 hox Outflow (cu.m) 18364.06 934.22 3145,34 17435.48 18358.44 30999.08 30999.08 30999.08 33999.08 33999.08 33999.08 33995.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 3395.03 345.03 3595.	0.597 0.623 0.572 0.641 irs storm, avera Storage Channi (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
etC4 etC5 etC6 ONTINUITY CHE4 ods 4 4 5 8 etBEx etBEx etBEx etBEx etBEx etAEx 40 utBEx etB	15.58 15.57 15.58 15.57 15.58 15.58 (cu.m) 15.58 15.59 15.58 15.59 15.58 15.59 15.59 15.59 15.59 15.59 15.59 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59	257 8 262 5 253 4 266 00 year, 8 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 3352253 8945.49 177945.38 4245.67 934.22 478.68 8351.8 35176.05 4866.35 7329.11 683.11 29406.47	0.597 0.623 0.572 0.641 Irs storm, even Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
eIC4 eIC5 eIC6 ONTINUITY CHE4 ode 4 5 8 eIBEx eIBEx eIBEx eIBEx eIAEx 40 utBEx eIB_Prop 62 63 64 65 69 90 UIB_Prop 75 78 79 vutA_Prop	15.58 15.57 15.58 (cu m) 15.58 (cu m) 15.364.09 934.22 3145.34 27171.37 18358.44 30999.08 300999.08 300999.08 300999.08 300990.08 300990.08 300990.08 3009000000000000000000000000000000000	257 8 262 5 253 4 266 00 year, E ho. Dufflow (cu.m) 18364.06 934.22 3145.34 17435.49 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 33222 53 8945.49 17945.38 4245.67 9334.22 478.68 8354.63 53716.05 4866.35 7329.11 683.11 29406.47 29392.53	0.597 0.623 0.572 0.641 irs storm, evers Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
eIC4 eIC5 eIC6 ONTINUITY CHE4 ode 4 5 8 eIBEx eIBEx eIBEx eIBEx eIAEx 40 utBEx eIB_Prop 62 63 64 65 69 90 UIB_Prop 75 78 79 vutA_Prop	15.58 15.57 15.58 15.57 15.58 15.58 (cu.m) 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.59 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59 15.58 15.59	257 8 262 5 253 4 266 00 year, 8 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 3352253 8945.49 177945.38 4245.67 934.22 478.68 8351.8 351.76.05 4866.35 7329.11 683.11 29406.47	0.597 0.623 0.572 0.641 irs storm, evers Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
etC4 etC5 etC6 ONTINUITY CHE4 ode 4 5 8 etBEx etBEx etAEx 40 utAEx etB_Prop 62 63 64 65 65 69 utB_Prop 76 77 78 79 utA_Prop etA_Prop	15.58 15.57 15.58 (cu m) 15.58 (cu m) 15.364.09 934.22 3145.34 27171.37 18358.44 30999.08 300999.08 300999.08 300999.08 300990.08 300990.08 300990.08 3009000000000000000000000000000000000	257 8 262 5 253 4 266 00 year, E ho. Dufflow (cu.m) 18364.06 934.22 3145.34 17435.49 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 30999.08 33222 53 8945.49 17945.38 4245.67 9334.22 478.68 8354.63 53176.05 4866.35 7329.11 683.11 29406.47 29392.53	0.597 0.623 0.572 0.641 irs storm, evers Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
tetC4 tetC5 tetC6 CONTINUITY CHE4 totas tetA6 tetA6 tetBEx tet	15.58 15.57 15.58 (cum) 18364.09 994.22 3145.34 27171.37 18358.44 27171.37 18358.44 27171.37 18358.44 30999.08 3099.08 300000000000000000000000000000000000	257 8 262 5 253 4 266 00 year, 8 hot Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 53292.53 8945.49 17945.38 8354.83 8351.38 335176.05 4868.35 7329.11 683.11 29406.47 2932.53 21408.49 4943.38	0.597 0.623 0.572 0.641 irs storm, avera Storage Channi (cu.m) 0 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
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etC4 etC5 etC6 ONTINUITY CHE4 ode 4 5 8 etBEx etBEx etBEx etAEx 40 utAEx etB_Prop 62 63 64 65 65 69 utB_Prop 76 77 78 77 78 79 utA_Prop etC1 etC2 etC2 etC3	15.58 15.57 15.58 (cu.m) 15.58 (cu.m) 15.364.09 934.22 3145.34 27171.37 18358.44 30999.08 30999.08 30999.08 30999.08 53292.53 22608.23 17945.34 4245.87 9334.22 478.68 8351.36 835175.95 4866.35 7329.11 683.11 29406.41 29392.53 43346.28 43346.28	257 8 262 5 253 4 266 00 year, 6 hoa 0utflow (cu.m) 18364.06 934.22 3146.34 17435.48 18358.44 30999.08 30999.08 30999.09 30999.09 30999.09 30999.09 30999.09 30999.09 3353292.53 6945.49 934.22 478.68 8354.63 8351.38 335176.05 4866.35 4866.35 4866.35 4866.58 4940.38 51825.04 4666.58 4678.26	0.597 0.623 0.572 0.641 irs storm, evers Storage Chan- (cu.m) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
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letC4 letC5 letC6 CONTINUITY CHE/ lods 44 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cu.m) 15.58 (cu.m) 15.58 (cu.m) 15.56 15.57 15.58 15.57 15.58 14.52 14.52 14.52 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.53 14.54 14.55 14.	257 8 262 5 253 4 266 00 year, 6 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 335292.53 6945.49 17945.38 4245.67 934.22 478.68 8351.38 335176.05 4866.35 7329.11 683.11 29406.47 29392.53 21408.19 4943.38 51825.04 4666.58 4875.35 4485.33	0.597 0.623 0.572 0.641 irs storm, evere Storage Chan- (cu.m) 0 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
leiC4 leiC5 leiC6 CONTINUITY CHE4 lode 4 4 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cu m) 15.58 (cu m) 15.364.09 934.22 3145.34 27471.37 18358.44 30999.08 30999.08 30999.08 30999.08 53292.53 22608.23 17945.34 4245.87 9334.22 478.68 8351.36 835175.95 4866.35 7329.11 683.11 29392.53 43346.28 43346.28 4934.05 52711.73 4687.28 4678.94 4678.94 4687.28 4678.94 4678.94 4687.01 9.05	257 8 262 5 253 4 266 00 year, E ho. Dufflow (cu.m) 18364.06 934.22 3145.34 17435.49 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 33292.53 6945.49 17945.38 4245.67 934.22 478.68 8351.38 35176.05 4866.35 732911 683.11 29406.47 29392.53 21408.19 4943.38 51825.04 4686.58 4676.26 4875.35 51825.04	0.597 0.623 0.572 0.641 irs storm, avere Storage Chan- (cum) 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				
etC4 etC5 etC5 continuity CHE4 lode 4 4 15 16 15 16 15 16 15 16 15 16 15 16 15 16 15 16 16 15 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17	15.58 15.57 15.58 (cu.m) 18.364.09 934.22 3145.34 27171.37 18.358.44 30999.08 3051.39 3051.20 4040.61 29 4040.62 4040.62 4040.62 4040.62 4040.62 4040.62 4040.62 4040.62 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 505.52 4040.02 55711.73 4667.28 467.22 47 47 47 47 47 47 47 47 47 47 47 47 47	257 8 262 5 253 4 266 00 year, 6 hoa 0utflow (cu.m) 18364.06 934.22 3146.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.09 30999.09 30999.09 30999.09 30999.09 33292.53 8945.49 917945.38 4245.87 934.22 478.68 8354.63 8351.38 35176.05 4866.35 4866.35 4866.35 4866.35 4865.35 21406.19 4943.38 51825.04 4666.58 4678.26 4875.35 4485.33 5018.32	0.597 0.623 0.572 0.641 rs storm, evere Storage Channi (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 sge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
letC4 letC5 letC6 CONTINUITY CHE/ lods 4 4 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cu m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.08 53292.53 22608.23 17945.34 4245.87 934.22 478.68 8351.38 35175.95 4866.35 7329.11 2934.22 478.68 8351.38 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8351.38 35175.95 4866.35 7329.11 2934.22 5732.82 57328.88	257 8 262 5 253 4 266 00 year, 8 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 53292.53 8945.49 17945.36 4245.67 934.22 478.68 83554.83 35176.05 4866.35 7329.11 683.11 28406.47 29392.53 21408.49 4943.38 51825.04 4666.58 4675.35 4465.33 5018.32 57322.88	0.597 0.623 0.572 0.641 rs storm, avere Storage Chan- (cu.m) 0 0 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
letC4 letC5 letC6 CONTINUITY CHE/ lods 4 4 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cu.m) 18.364.09 934.22 3145.34 27171.37 18.358.44 30999.08 3051.39 3051.20 4040.61 29 4040.62 4040.62 4040.62 4040.62 4040.62 4040.62 4040.62 4040.62 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 4040.02 505.52 4040.02 55711.73 4667.28 467.22 47 47 47 47 47 47 47 47 47 47 47 47 47	257 8 262 5 253 4 266 00 year, 8 hot Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 53292.53 8945.49 17945.38 4245.67 934.22 478.68 8354.83 35176.05 4866.35 7329.11 683.11 28406.47 29392.53 21408.49 4943.38 51825.04 4686.53 51825.04 4685.33 5018.32 57322.88	0.597 0.623 0.572 0.641 rs storm, evere Storage Channi (cu.m) 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 ige 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
leiC4 leiC5 leiC6 CONTINUITY CHE4 lode 4 4 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cu m) 18364.09 934.22 3145.34 27171.37 18358.44 30999.08 53292.53 22608.23 17945.34 4245.87 934.22 478.68 8351.38 35175.95 4866.35 7329.11 2934.22 478.68 8351.38 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8354.63 35175.95 4866.35 7329.11 2934.22 478.68 8351.38 35175.95 4866.35 7329.11 2934.22 5732.82 57328.88	257 8 262 5 253 4 266 00 year, 8 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 53292.53 8945.49 17945.36 4245.67 934.22 478.68 83554.83 35176.05 4866.35 7329.11 683.11 28406.47 29392.53 21408.49 4943.38 51825.04 4666.58 4675.35 4465.33 5018.32 57322.88	0.597 0.623 0.572 0.641 rs storm, avere Storage Chan- (cu.m) 0 0 0 0 0 0 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 Zone 1				
letC4 letC5 letC6 CONTINUITY CHE/ lods 44 15 16 16 16 16 16 16 16 16 16 16	15.58 15.57 15.58 (cu.m) 15.58 (cu.m) 15.58 (cu.m) 15.364.09 934.22 3145.34 27171.37 18358.44 30999.08 30999.08 30999.08 53292.53 22608.23 17945.34 4245.87 934.22 478.68 8351.38 35175.95 4866.35 7329.11 683.11 29392.53 43346.28 4944.05 52711.73 4667.28 4944.05 52711.73 4667.28 478.68 52711.73 4667.28 4944.05 52711.73 4667.28 478.94 4876.12 4486.04 507.92.42 57.322.89 17910.6	257 8 262 5 253 4 266 00 year, 8 ho. Outflow (cu.m) 18364.06 934.22 3145.34 17435.48 18358.44 30999.08 30999.08 30999.08 30999.08 30999.08 335292.53 6945.49 17945.38 4245.67 934.22 478.68 8351.38 335176.05 4866.35 7329.11 683.11 29406.47 29392.53 21408.19 4943.38 51825.04 4666.58 4675.35 44865.33 51825.04 4667.53 51825.04 4667.53 51825.04 4675.35 4485.33 5018.32 57322.88 17910.6	0.597 0.623 0.572 0.641 Irs storm, evere Storage Chan- (cu m) 0 0 0 0 9738.29 9738.29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.597 0.623 0.572 0.641 9ge 23.3 mm/h. Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2one 1				

F \AA003210\D-Calculations\C-Civil\Stormwater\DRAINS\Post PEA\Moorebank_DRAINS_REV02.xlsx

N177	2893.97	2893,97	-0	0	1.1					
V224	2968.94	2968.94	0	0			1			
232	417.05	417.05	0	Ō						
W/2	53292.54	53292,53	0	0		1				
150	53292.53	53292.53	0	0			1			
1294	2893.97	2893.97	0	0						
1320	1567.38	1567.38	0	0						
V321	5252.78	5252.78	0	0						
1322	590.64	590.64	0	0	1	- F.	1 h	1991		
1323	16478.26	16478.26	0	0	1.1	-	1			
1324	661.79	661.79	0	0			D		1	
V325	230.38	230.38	0	0	1.0		1			
1326	24250.82	24251.12	0	0	1 III 1					
1327	16714.37	16714.35	0	0						
1328	8200.33	8200,33	0	0		10.000	1			
1329	6186.29	6186.29	0	0		-			_	-
Run Log for Mo	prebank_REV02 run	at 10:35:07 on 9/	3/2011		-					-
	ow exceeded the sa			outes: OF30		1	1			
	tention basins have	A STATE OF A				1	1. The Taylor	Sec. 1	1 A A	

	Name and F			D-Calculations\	2-Civil\Stormw	rater\DRAINS\	Post PEA\Moo	rebank_REV02-20110713.dm
RAINS Version:		2010.09 - 5 A						
odeller's Name: escription:	-	Chris McClell Moorebank O						
RAINS results prepa	ared 09 Augu	st. 2011 from	Version 2010.0	9	-			RESULTS
T (NODE DETAIL	c			Version 8		<u>i</u> 13		
IT / NODE DETAILS	Mex HGL	Max Pond	Max Surface	Max Pond	Min	Overflow	Constraint	Climate Change
in the second se	MBA HOL	HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)	CONSCIDENT	
			(cu.m/s)	(cu.m)	(m)	(
W2	13.19	15.598			1.01	0	None	
50	12.56		0		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	1 I I I I I I I I I I I I I I I I I I I		
	DETAIL C							
UB-CATCHMENT E	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm	
	Flow Q	Max Q	Max Q	Tc	Tc	Tc	Due to orall	
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)		
atchB1Ex	0.573	0	0.573	3	8	0	AR&R 102 ye	ar, 20 minutes storm, average 151 mm/n, Zone 1
stchC1Ex	1.482	1.239	0.243	7	7			ar, 20 minutes storm, average 151 mm/h, Zone 1
atchBEx.	9.21	3.691	5.519 5.403	14.5	24			ar, 2 hours storm, average 55.3 mm/h, Zone 1
atB1_Prop	5,455	5.455	5.405	15.75	15			ar, 20 minutes storm, average 151 mm/h, 2one 1 ar, 15 minutes storm, average 173 mm/h, 2one 1
atB2(Swale) Prop	1.81	1.81	0	9.5	8.5			ar, 20 minutes storm, average 151 mm/h, 2one 1
tB1Ext Prop	0.573	0	0.573	:5	8			ar, 20 minutes storm, average 151 mm/h, Zone 1
tB2Ext_Prop	0.215	0	0.215	8.5	15.5	0	AR&R 102 ye	ar, 1 hour storm, average 83.6 mm/h, Zone 1
tA1_Prop	5.068	5.068	0	6	3			ar, 15 minutes storm, average 173 mm/h, Zone 1
atA2(Swale)_Prop	1.912	1.912	0	12	11			ar, 20 minutes storm, average 151 mm/h, Zone 1
tA1Ex_Prop	3.423	1.6	1.687	13.2	8.3			ar, 20 minutes storm, average 151 mm/h, Zone 1
atA2Ex_Prop	2.662	2.662	0.289	3	18			ar, 1 hour storm, average 83.6 mm/h, Zone 1 ar, 5 minutes storm, average 269 mm/h, Zone 1
atCb_Prop	2.662	2.502	0	3	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
atCe_Prop	2.519	2,519	0	3	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
atCd_Prop	2.625	2,625	0	3	0	0	AR&R 102 ye	ar, 5 minutes storm, average 269 mm/h, Zone 1
atCe_Prop	2.415	2.415	0	3	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
atCf_Prop	2.702	2.702	0	3	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
atC2_Prop	9.642	9,642	0.243	3	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
atCEx1_Prop atCEx2_Prop	0.814	0.47	0.243	21.7	25			ar. 20 minutes storm, average 151 mm/h, Zone 1 ar. 1.5 hours storm, average 65,9 mm/h, Zone 1
at_A3_Prop	1.778	1,778	0,000	3	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
at Carpark_Ex	1.488	1.488	0	5	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
atC1_Prop	1.598	1.598	0	3	0	0	AR&R 102 ye	ar, 5 minutes storm, average 269 mm/h, Zone 1
atB3Ext_Prop	0.256	0	0.256	0	8			ar, 20 minutes storm, average 151 mm/h, Zone 1
atchCEx	13,487	9.233	4.589	25	30			ar, 1 hour storm, average 83.6 mm/h, Zone 1
at Carpark_Prop	1.488	1.488	0	5	0			ar, 5 minutes storm, average 269 mm/h, Zone 1
at1 at2	0.762	0.452	0.312	5	12			ar. 25 minutes storm, average 134 mm/h, Zone 1 ar. 25 minutes storm, average 134 mm/h, Zone 1
at3	0.312	0.177	0.135	4	8			ar. 15 minutes storm, average 173 mm/h, Zone 1
at4	7.877	7.531	0.347	5	15			ar, 5 minutes storm, average 269 mm/h, Zone 1
at5	0.339	0.189	0.151	6	8	0	AR&R 102 ye	ar, 15 minutes storm, average 173 mm/h, Zone 1
at6	0.118	0.066	0.053	6	8			ar, 15 minutes storm, average 173 mm/n, Zone 1
atA4_Prop	3.497	3.497	0	6	3			ar, 15 minutes storm, average 173 mm/h, Zone 1
atA5_Prop atA6_Prop	3.95	3.95	0	6	3			ar, 15 minutes storm, average 173 mm/h, Zone 1 ar, 15 minutes storm, average 173 mm/h, Zone 1
atB3_Prop	2.87	2.87	0	6	3		a the structure of the former of the structure of the str	ar, 15 minutes storm, average 173 mm/h, Zone 1
		2.01		-		· · · · · ·	ranger for jo	Star in the start of the start
		8	0	1	-	-		
utflow Volumes for								
	and a second sec			Pervious Runo				
	cu.m			cu.m (Runoff 9		-		
R&R 102 year, 5 n R&R 102 year, 10				6717.75 (48,7%				
R&R 102 year, 10 R&R 102 year, 15				12964.96 (61.3 17581.36 (66.0			-	
R&R 102 year, 20				21181.25 (68.3			· · · · · · · · · · · · · · · · · · ·	
R&R 102 year, 25				23654,56 (68.8				
R&R 102 year, 30	133019.53	119984.68 (9	93896,34 (98.	26088,34 (69.5	5%)	-		
R&R 102 year, 45				32193 14 (70.8		-		
R&R 102 year, 1 h				36723.75 (71.3				
R&R 102 year, 1.5 R&R 102 year, 2 h				43680.06 (71.8 48809.93 (71.7			1	
R&R 102 year, 3 h				48809.93 (71.7 56706.29 (71.2		-		
R&R 102 year, 4.5				64704 42 (69.9		-		
				and the second	-		· · · · · · · · · · · · · · · · · · ·	
PE DETAILS								
and the second			Max U/S	Max D/S	Due to Storm	1 C		
ame M	Max Q	Max V		HGL (m)	ADID INC	a Free la	1	200 mm/h Zehold
ame M	(cu.m/s)	(m/s)	HGL (m)				storm, average	
ame M pe13	(cu.m/s) 1.988	(m/s) 1.8	16.202	16.009			storm average	
ame M (i pe13 18	(cu.m/s) 1,988 1,942	(m/s) 1.8 1.8	16.202 16.182	16.009 16.009	AR&R 102 ye	ar. 5 minutes	and the second se	269 mm/h, Zone 1
ame () pe13 18 20	(cu.m/s) 1.988	(m/s) 1.8	16.202	16.009 16.009 16.009	AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes	storm, average	
ime (pe13 8 20 22	(cu.m/s) 1.988 1.942 1.94	(m/s) 1.8 1.8 1.8	16.202 16.182 16.181	16,009 16,009 16,009 16,009	AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar. 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average	269 mm/h, Zone 1
me (0e13 8 20 22 24 26	(cu.m/s) 1.988 1.942 1.94 1.975 1.916 2.001	(m/s) 1.8 1.8 1.8 1.8	16.202 16.182 16.181 16.198 16.198 16.167 16.205	16.009 16.009 16.009 16.009 16.009 16.009 16.009	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
me (0e13 8 20 22 24 26	(cu.m/s) 1.988 1.942 1.94 1.975 1.975	(m/s) 1.8 1.8 1.8 1.8 1.8	16.202 16.182 16.181 16.198 16.198	16.009 16.009 16.009 16.009 16.009 16.009 16.009	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1 269 mm/h. Zone 1 269 mm/h. Zone 1
ime (pe13 (8 20 22 24 26 0	(cu.m/s) 1.988 1.942 1.94 1.975 1.916 2,001 15.598	(m/s) 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.9	16.202 16.182 16.181 16.198 16.198 16.167 16.205	16.009 16.009 16.009 16.009 16.009 16.009 16.009	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
ime (0 12 12 12 12 12 12 12 12 12 12	(cu.m/s) 1.988 1.942 1.94 1.945 1.916 2.001 15.598	(m/s) 1.8 1.8 1.8 1.8 1.8 1.8 1.9 3.4	16.202 16.182 16.181 16.198 16.167 16.205 12.82	16.009 16.009 16.009 16.009 16.009 16.009 16.009 12.558	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
ame (pe13 18 20 22 24 26 10 HANNEL DETAILS ame N	(cu.m/s) 1.988 1.942 1.94 1.975 1.916 2.001 15.598 Max O	(m/s) 1.8 1.8 1.8 1.8 1.9 3.4 Max V	16.202 16.182 16.181 16.193 16.167 16.205 12.82 Chainage	16.009 16.009 16.009 16.009 16.009 16.009 12.558 Max	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
ame (pe13 18 20 22 24 26 10 HANNEL DETAILS ame N	(cu.m/s) 1.988 1.942 1.94 1.945 1.916 2.001 15.598	(m/s) 1.8 1.8 1.8 1.8 1.8 1.8 1.9 3.4	16.202 16.182 16.181 16.198 16.167 16.205 12.82	16.009 16.009 16.009 16.009 16.009 16.009 16.009 12.558	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
ame (0013 (18 20 12 20 1	(cu.m/s) 1.988 1.942 1.944 1.975 1.916 2.001 15.598 Max O (cu.m/s)	(m/s) 1.8 1.8 1.8 1.8 1.9 3.4 Max V	16.202 16.182 16.181 16.193 16.167 16.205 12.82 Chainage	16.009 16.009 16.009 16.009 16.009 16.009 12.558 Max	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
ame (pe13 (pe13 (18 20 (22 24 (24 26 (10 (HANNEL DETAILS (ame () (VERFLOW ROUTE	(cu.m/s) 1.988 1.942 1.94 1.975 1.916 2.001 15.598 Max O (cu.m/s) E DETAILS	(m/s) 1.8 1.8 1.8 1.8 1.9 3.4 Max V	16.202 16.182 16.181 16.193 16.167 16.205 12.82 Chainage	16.009 16.009 16.009 16.009 16.009 16.009 12.558 Max	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes at, 5 minutes ar, 5 minutes ar, 5 minutes	storm, average storm, average storm, average storm, average	269 mm/h. Zone 1 269 mm/h. Zone 1
ame (pe13 (pe13 (20 (22 (24 (25 (10 (HANNEL DETAILS (ame () (() (VERFLOW ROUTE	(cu.m/s) 1.988 1.942 1.94 1.975 1.916 2.001 15.598 Max O (cu.m/s) E DETAILS	(m/s) 1.8 1.8 1.8 1.8 1.9 3.4 Max V (m/s)	16.202 16.182 16.181 16.189 16.167 16.205 12.82 Chainage (m) Safe O 0.256	16.009 16.009 16.009 16.009 16.009 12.558 Max HGL (m)	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye	ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 1.5 hours ar, 1.5 hours	storm, average storm, average storm, average storm, average dorm, average	269 mm/h, Zone 1 529 mm/h, Zone 1
ame (pe13 (pe13) 18 (20) 22) 24) 26 (10) HANNEL DETAILS ame (VERFLOW ROUTE ame (F9) F12)	(cu.m/s) 1.988 1.942 1.942 1.944 1.975 1.916 2.001 15.598 Max O (cu.m/s) E DETAILS Mex Q U/S 2.679 0.573	(m/s) 1.8 1.8 1.8 1.6 1.8 1.9 3.4 Max V (m/s) Max Q D/S 2.679 0.573	16.202 16.182 16.181 16.198 16.167 16.205 12.82 Chainage (m) Safe Q 0.256 0.256	16.009 16.009 16.009 16.009 16.009 12.558 HGL (m) Max Max D 0.131 0.07	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye Due to Storm Max DxV 0.16 0.05	ar. 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 1.5 hours ar, 1.5 hours ar	storm, average storm, average storm, average storm, average storm, average Max V 1.23 0.82	269 mm/h, Zone 1
ame (pe13 (pe13 (20 (22 (24 (26 (10 (HANNEL DETAILS (ame (VERFLOW ROUTE (ame (VERFLOW ROUTE (ame (F9 ((cu.m/s) 1.988 1.942 1.942 1.944 1.975 1.916 2.001 15.598 Max O (cu.m/s) E DETAILS Max Q U/S 2.679	(m/s) 1.8 1.8 1.8 1.8 1.9 3.4 Max V (m/s) Max Q D/S .2.679	16.202 16.182 16.181 16.189 16.167 16.205 12.82 Chainage (m) Safe O 0.256	16.009 16.009 16.009 16.009 16.009 12.558 Max HGL (m) Max D 0.131	AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye AR&R 102 ye Due to Storm Max DxV 0.16	ar. 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 5 minutes ar, 1.5 hours ar, 1.5 hours ar	storm, average storm, average storm, average storm, average torm, average Max V 1.23 0.82 1.05	269 mm/h. Zone 1 269 mm/h. Zone 1 55.9 mm/h. Zone 1 Due to Storm AR&R 102 year, 2 hours storm, average 55.3 mm/h. Zone 1

OF17 StageDischarge_B	11.119	11.119	0.256			49.99						
				0.23	0.42		1.81	AR&R 102 year	r 2 hours storn			
	1.27	1.27	0.256	0.097	0.1	23.31		AR&R 102 year	and the second se			
OF43	8.288		0.256	0.007	0.34	45.22						
	-		the second se			1 - 12-74		AR&R 102 year				
OF44	1.81	1.81	0.256	0.111	0,12	26.18		AR&R 102 year				
OF46	0.573	0.573	0.256	0.07	0.06	17.92	0.82	AR&R 102 year	r, 20 minutes sl	torm, average	ge 161 mm/h.	Zone 1
OF47	0.215	0.215	0.256	0.046	0.03	13,25	0.63	AR&R 102 year	r, 1 hour storm,	average 83	3.6 mm/h. Zon	e 1
OF51	1.379	1.379	0.256	0.099	0.1	23.85	1.04	AR&R 102 year	r. 4.5 hours sto	m. average	33.4 mm/h. 2	one 1
OF58	16.119		0.256	0.23	0.6	49.99		AR&R 102 year				
OF59	1.912		0.256	0.114	0.13	26.72		the local division in the local division in the	the second s	and the second se	the second se	
								AR&R 102 year				
OF60	3.423	3.423	0.256	0.144	0.19	32.83		AR&R 102 year				
OF61	0.289		0.256	0.053	0.04	14.51	0.68	AR&R 102 year	r, 1 hour storm,	average 83	3.6 mm/h, Zon	e 1
OF64	4.235	4.235	0.256	0.158	0.22	35.52	1.39	AR&R 102 year	r, 20 minutes sl	torm, averag	ge 151 mm/h.	Zone 1
StageDischarge_A	1.928	1.928	0.256	0.115	0.13	26.9	1.13	AR&R 102 year	r. 4.5 hours sto	m. average	33.4 mm/h. Z	one 1
OF549	0.056		0.256	0.028	0.01	9.43	0.42	AR&R 102 year	r 2 hours storn	- average 5	5.3 mm/h. 70	ne 1
StageDischarge_D	14.48		0.256	0.23	0.54	49.99		AR&R 102 year				
	-	-						ANGR 102 year	1, 1.5 //00/5 500	m. average	100.0 mmm. 2	
OF550	0		0.256	0	0	0	0				-	
OF551	0		0.256	0		0	0		-	-		1.1.2
OF552	0	0	0.256	0	0	0	0	1 1.1			2	
OF553	0	0	0.256	0	0	0	0	the second se	a second s		Commence of the	
OF554	0.159	0.159	0.256	0.042	0.02	12.35	0.56	AR&R 102 year	r 2 hours storn	average 5	5.3 mm/b. Zo	ne 1
OF102	16.437	16.437	0.256	0.23	0.61	49.99		AR&R 102 year				
						47.91						
OF101	9.642	9.642	0.256	0.22	0.38			AR&R 102 year				
OF131	1,482	1.482	0.256	0.103	0,11	24.57	1.05	AR&R 102 year	r, 20 minutes sl	torm, average	ge 151 mm/h,	Zone 1
OF104	0.814	0.814	0.256	80.0	0.07	20.08	0.9	AR&R 102 year	r. 1.5 hours sto	m, average	65.9 mm/h, 2	one 1
OF205	1.778	1.778	0.256	0.11	0.12	26	1.12	AR&R 102 year	r, 5 minutes sto	xm, everage	e 269 mm/h, Z	one 1
OF485	1,488	1.488	0.256	0.103	0,11	24.57		AR&R 102 year				
OF305	1,598		0.256	0.106	0.11	25.1		AR&R 102 year				
OF340	0.256		0.256	0.05	0.03	13.97		AR&R 102 year				
								Short 102 year	e commutes si	with averag	je ren minnû. I	
OF28	0	0	0.256	0	0	0	0	1000 100				
OF30	15.596		0.256	0.23	0,58	49.99		AR&R 102 year				
OF487	1,486	1.488	0.256	0.103	0,11	24.57	1.06	AR&R 102 year	r, 5 minutes sto	xm, average	e 269 mm/h, Z	one 1
OF594	11.159	11.159	0.256	0.23	0.42	49.99	1.82	AR&R 102 year	r, 15 minutes st	torm, averac	ge 173 mm/h.	Zone 1
OF593	7,706	7.706	0.256	0.201	0.32	44.14		AR&R 102 year				
OF590	3,804	3.804	0.256	0.15	0.2	34.08		AR&R 102 year				
			the second se	a second s	the second s	and the second sec		and the second se		1		
OF600	2.87	2.87	0.256	0.134	0.47	30.85	1.26	AR&R 102 year	r, 15 minutes s	torm, averag	ge 1/3 mm/h.	Zone 1
		-				-		· · · · · · · · · · · · · · · · · · ·	_			
· · · · · · · · · · · · · · · · · · ·								1				
DETENTION BASIN	DETAILS	diam'ne an	1 m. m.	Sec. In	1.1.1			· · · · · · · · · · · · · · · · · · ·		1 1	1	
Name	Max WL	MaxVol	Max Q	Max Q	Max Q	-			-			-
			Total	Low Level	High Level	-				1.1.1.1.1.1		
DetBEx	14.77	14785.6	2.585	LOW LOVES	2.585	-		1		-	-	
	-			~				-		_		
DetAEx	14.22		11.119	0	11.119							
		15793	1.27	0	1.27		-4					
DetB_Prop	15.88	10100										
	15.88	28837.3	1.928	0	1.928						-	
DetB_Prop		28837.3	1.928	0	1.928							
DetB_Prop DetA_Prop DetC1	15.87 16.25	28837.3 802.5	2.044	1.988	0.056	-						
DetB_Prop DetA_Prop DetC1 DetD_Prop	15.87 16.25 16.01	28837.3 802.5 10835.7	2.044 14.48	1.988 0	0.056 14.48							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2	15.87 16.25 16.01 16.23	28837.3 802.5 10835.7 781.9	2.044 14.48 1.942	1.988 0 1.942	0.056 14.48 0							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3	15.87 16.25 16.01 16.23 16.23	28837.3 802.5 10835.7 .781.9 781.2	2.044 14.48 1.942 1.94	1.988 0 1.942 1.94	0.056 14.48 0 0	_						
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4	15.87 16.25 16.01 16.23 16.23 16.25	28837.3 802.5 10835.7 781.9 781.2 797.8	2.044 14.48 1.942 1.94 1.975	1.988 0 1.942 1.94 1.975	0.056 14.48 0 0 0	-						
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3	15.87 16.25 16.01 16.23 16.23	28837.3 802.5 10835.7 .781.9 781.2	2.044 14.48 1.942 1.94	1.988 0 1.942 1.94	0.056 14.48 0 0	-						
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4	15.87 16.25 16.01 16.23 16.23 16.25	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9	2.044 14.48 1.942 1.94 1.975	1.988 0 1.942 1.94 1.975 1.975	0.056 14.48 0 0 0							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC3 DetC4 DetC5	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9	2.044 14.48 1.942 1.94 1.975 1.916	1.988 0 1.942 1.94 1.975 1.975	0.056 14.48 0 0 0 0							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6	15.87 16.25 16.01 16.23 16.23 16.25 16.21 16.26	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805	2.044 14.48 1.942 1.94 1.975 1.916 2.16	1.988 0 1.942 1.94 1.975 1.975 1.916 2.001	0.056 14.48 0 0 0 0 0 0 0.159							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 CK for AR&R	28837.3 802:5 10835.7 781.9 781.9 781.9 781.2 797.8 765.9 805 805	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2	0.056 14.48 0 0 0 0 0 0 0.159							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6	15.87 16.25 16.01 16.23 16.23 16.23 16.21 15.26 CK for AR&R Inflow	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 805 102 year, 1 hox Outflow	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, averag Storage Chan	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2	0.056 14.48 0 0 0 0 0 0 0.159							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m)	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year, 1 ho; Outflow (cu.m)	2.044 14.48 1.942 1.94 1.975 1.916 2.16 or storm, avera; Storage Chan, (cu.m)	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference	0.056 14.48 0 0 0 0 0 0 0.159							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m) 7070.92	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 002 year, 1 hox Outflow (cu.m) 7070.92	2.044 14.48 1.942 1.94 1.975 1.975 2.16 2.16 2.16 Storage Chan (cu.m) 0	1.988 0 1.942 1.94 1.975 1.916 2.001 2.001 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m)	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 002 year, 1 hox Outflow (cu.m) 7070.92	2.044 14.48 1.942 1.94 1.975 1.916 2.16 or storm, avera; Storage Chan, (cu.m)	1.988 0 1.942 1.94 1.975 1.916 2.001 2.001 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC5 DetC6 CONTINUITY CHE0 Node	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m) 7070.92	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 102 year. 1 ho: Outlow (cu.m) 7070.92 646.36	2.044 14.48 1.942 1.94 1.975 1.975 2.16 2.16 2.16 Storage Chan (cu.m) 0	1.988 0 1.942 1.94 1.975 1.916 2.001 2.001 0ifference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N5 N8	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m) 7070.92 646.36 1909.27	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 805 2 year. 1 hox Outflow (cu.m) 7070.92 646.36 1909.27	2.044 14.48 1.942 1.94 1.975 1.916 2.16 or storm, avera; Storage Chan (cu.m) 0 0 0	1.988 0 1.942 1.94 1.975 1.975 1.976 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0	0.056 14.48 0 0 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEx	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m) 7070.92 646.36 1909.27 17508.87	28837 3 802.5 10835.7 .781.9 765.9 805 102 year, 1 hoo Outflow (cu.m) 7070.92 646.36 1909.27 6431.15	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, averag Storage Chan, (cu.m) 0 0 0 11081.07	1.988 0 1.942 1.944 1.975 1.916 2.001 2.001 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEX OutBEX	15.87 16.01 16.25 16.03 16.23 16.23 16.23 16.25 16.21 15.26 0K for AR&R 0mflow (cu.m) 7070.92 646.36 1909.27 77508.87 7064.28	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 002 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, averag Storage Chan. (ou.m) 0 0 0 11081.07 0	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEX OutBEX DetAEx	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m) 7070.92 646.36 1909.27 17508.87 7064.28 19563	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 102 year, 1 hoc Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11	2.044 14.48 1.942 1.94 1.975 1.976 2.16 r storm, average Storage Chani (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx QutBEx DetAEx N40	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 0.5 for AR&R Inflow (cu.m) 7070.92 646.36 1909.27 17508.87 7064.28 19563.11	28837.3 802.5 10835.7 781.9 765.9 765.9 805 102 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, avera (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 0 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEX OutBEX DetBEX OutBEX DetAEx N40 OutAEx	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 0K for AR&R Inflow (cu.m) 7070.92 645.36 1909.27 17508.87 7064.28 19563.11 19563.11	28837 3 802.5 10835.7 .781.9 781.2 797.8 765.9 805 002 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storn, avera; Storage Chan; (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 0 883.6 mm/h, 2 Difference 1% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx QutBEx DetAEx N40	15.87 16.01 16.25 16.03 16.23 16.23 16.25 16.21 15.26 0.05 16.21 15.26 0.05 16.21 15.26 0.05 16.21 15.26 0.05 19.09 27 070.92 0.46.36 19.09 27 7064.28 19.563.11 19.563.11 19.563.11 32.919.43	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chani (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEX OutBEX DetBEX OutBEX DetAEx N40 OutAEx	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 0K for AR&R Inflow (cu.m) 7070.92 645.36 1909.27 17508.87 7064.28 19563.11 19563.11	28837 3 802.5 10835.7 .781.9 781.2 797.8 765.9 805 002 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storn, avera; Storage Chan; (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 DetBEX OutBEX DetAEX N40 OutAEX OutAEX OutCEX	15.87 16.01 16.25 16.03 16.23 16.23 16.25 16.21 15.26 0.05 16.21 15.26 0.05 16.21 15.26 0.05 16.21 15.26 0.05 19.09 27 070.92 0.46.36 19.09 27 7064.28 19.563.11 19.563.11 19.563.11 32.919.43	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year. 1 ho: Outlow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.13 19563.13 19563.13 19563.14	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chani (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX DetAEX N40 OutAEx DetB_Prop N62	15.87 16.01 16.25 16.21 16.23 16.25 16.21 15.26 CK for AR&R Inflow (cu.m) 7070.92 646.36 1909.27 17508.87 7066.28 19563.11 19563.11 19563.11 19563.11	28837.3 802.5 10835.7 781.9 781.2 797.8 765.9 805 202 805 805 202 805 805 805 805 805 80 80 80 80 80 805 80 80 80 80 80 80 80 80 80 80 80 80 80	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chani (cu.m) 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 0 98 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetBEX OutBEX DetAEx N40 OutC4 DetBEX DetAEx N40 OutC4 N5 N40 States States N40 States States States States N40 States S	15.87 16.25 16.01 16.23 16.25 16.21 15.26 16.21 15.26 0.05 0.0	28837 3 802.5 10835.7 7.781.9 781.2 797.8 765.9 805 002 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, avera; Storage Chan (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 0 96 83.6 mm/h, 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetC2 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHE0 Node N4 N5 N8 DetBEX OutBEX DetBEX OutBEX DetAEX N40 OutAEX DetAEX N40 OutAEX OutAEX N62 N63 N64	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 7070.92 646.36 19.0563.11 32.919.43 1349.463 10679.35 252.26.73 646.36	28837 3 802:5 10835.7 781.9 781.2 797.8 765.9 805 02 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19575.11 195755.11 19575.11 19575.11 19575.11 19575.11 19575.11 19575.11 1	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX DetAEx N40 OutBEX DetAEx N62 N64 N65	15.87 16.01 16.25 16.01 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 26.46.36 1909.27 7070.92 646.36 1909.27 7706.87 7706.428 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 32919.43 13494.63 10679.35 2526.73 8646.36 329.43	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year. 1 ho. Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.13 1250.8 10679.35 2526.73 646.36	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chani (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node NS N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx N62 N63 N64 N655 N69	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 0K for AR&R Inflow (cu.m) 7070.92 646.36 1909.27 17508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 13494.63 10679.35 2526.73 646.36 329.43 2223.59	28837 3 802:5 10835.7 7.781.9 761.2 797.8 805 102 year, 1 hox Outflow (cu.m) 7070.92 646:36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 1250.8 10679.35 2526.73 648.36 329.43 2223.59	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Chan (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.945 1.946 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutC4x DetBFrop N62 N63 N64 N69 OutB_Prop	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 17.508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2221.59 2220.59	28837 3 802.5 10835.7 7.781.9 781.2 797.8 805 000000000000000000000000000000000	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan, (cu.m) 0 0 0 11081.07 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 Difference 1% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.0 0 0.159 2006 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node NS N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx N62 N63 N64 N655 N69	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 0K for AR&R Inflow (cu.m) 7070.92 646.36 1909.27 17508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 13494.63 10679.35 2526.73 646.36 329.43 2223.59	28837 3 802.5 10835.7 7.781.9 781.2 797.8 805 000000000000000000000000000000000	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Chan (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 Difference 1% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.0 0 0.159 2006 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutC4x DetBFrop N62 N63 N64 N69 OutB_Prop	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 17.508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2221.59 2220.59	28837 3 802.5 10835.7 .781.9 781.2 797.8 765.9 805 002 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 252.6.73 646.36 329.43 2223.59 2222.59 20933.32	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan, (cu.m) 0 0 0 11081.07 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetAEx N40 OutAEx DetB N62 N63 N64 N65 N69 OutB_Prop N75 N76	15.87 16.01 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.05 25.673 13494.63 10679.35 2526.73 164.36 329.43 2223.59 2220.59 2290.33 22 2885.96	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year. 1 ho. Outflow (cu.m) 7070.92 646.36 1999.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 1250.8 10679.35 2526.73 644.36 329.43 2223.59 2220.59 2200.33 22	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Chani (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEx DetBEx OutAEx OutAEx N62 N63 N64 N65 N69 OutB_Prop N76 N77	15.87 16.25 16.01 16.23 16.23 16.25 16.21 15.26 0K for AR&R 16.09 0X for AR&R 1909.27 17508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 10679.35 2526.73 646.36 329.43 2223.59 2220.59 2293.32 2895.96 4661.59	28837 3 802:5 10835.7 7.781.9 761.2 797.8 805 102 year, 1 hox Outflow (cu.m) 7070.92 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2526.7 6435.2 12526.7 6435.2 2526.7 645.3 6463.6 329.43 2223.59 2220.59 2293.32 2855.96 4661.59	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 2.16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD2 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutEx DetB N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 16.26 16.21 16.26 16.21 16.26 16.27 16.26 16.27 16.26 16.27 16.26 16.26 16.27 16.27 16.26 16.27 16.26 16.27 16.26 16.27 16.26 16.27 16.27 16.26 16.27 16.26 16.27 16.26 16.27 16.26 16.27 16.26 16.27 16.26 19.09 27 17.508.87 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.12 19.563.12 19.563.12 19.563.12 19.563.12 19.563.12 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.25.59 22.26.59 20.57.3 46.65.59 46.65.59 46.65.59 46.55.59 45.55.57.57 45.55.57.57.57 45.55.57.57.57.57.5	28837 3 802.5 10835.7 7.781.9 781.2 797.8 805 000000000000000000000000000000000	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 2006 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node DetBEx DetBEx DetAEx DetAEx OutAEx OutAEx DetB_Prop N63 N64 N65 N66 N77 N78 N77 N78 N79	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 7070.92 646.36 19.09.27 7064.28 19.0563.11 32.919.43 13.494.63 10.679.35 25.26.73 646.36 3.29.43 2.223.59 2.225.59 2.034.175.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.575.575.575.575.575.575.575.575.57	28837 3 802:5 10835.7 7.781.9 781.2 797.8 805 02 year, 1 ho. Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 25226.73 646.36 329.19.43 1250.8 10679.35 25226.73 646.36 329.43 2223.59 22220.59 20933.32 2855.96 4661.59 269.25 10841.74	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.976 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetAEx N40 OutAEx DetB, Prop N62 N63 N64 N75 N76 N77 N78 N79 OutA_Prop	15.87 16.01 16.25 16.01 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 7070.92 646.36 19.0563.11 19.0573.22 22.059 20.059 20.053 20.059 20.05	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 1250.8 10679.35 2526.73 2646.36 329.43 2223.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 22895.96	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node DetBEx DetBEx DetAEx DetAEx OutAEx OutAEx DetB_Prop N63 N64 N65 N66 N77 N78 N77 N78 N79	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 7070.92 646.36 19.09.27 7064.28 19.0563.11 32.919.43 13.494.63 10.679.35 25.26.73 646.36 3.29.43 2.223.59 2.225.59 2.034.175.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.57 2.555.575.575.575.575.575.575.575.575.57	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 1250.8 10679.35 2526.73 2646.36 329.43 2223.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 22895.96	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetC2 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetAEx OutBEx DetAEx N40 OutAEx DetB_Prop N62 N63 N64 N65 N76 N77 N78 N79 OutA_Prop DetA_Prop	15.87 16.01 16.25 16.01 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 7070.92 646.36 19.0563.11 19.0573.22 22.059 20.059 20.053 20.059 20.05	28837 3 802.5 10835.7 781.9 781.2 797.8 765.9 805 02 year, 1 ho Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 1250.8 10679.35 2526.73 2646.36 329.43 2223.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 22895.96	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 2.16 2.16 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node Node DetBEX OutBEX DetA_Prop N62 N63 N64 N65 N66 N63 N64 N65 N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetA_Prop DetA_Trop DetA_Prop	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.25 16.21 15.26 (cm) 7070.92 646.36 1909.27 7070.92 646.36 1909.27 70508.87 7064.28 19563.11 32919.43 13494.63 10579.35 2526.73 646.36 329.43 2223.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2293.32 2895.96 10841.75 10828.37 25795.15 2942.22	28837 3 802.5 10835.7 7.781.9 781.2 797.8 805 002 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2228.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 22033.32 2895.96 4661.59 469.25 10841.74 10828.37 5724.26 2940.83	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chani (cu.m) 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.0 0 0.159 Zone 1							
DetB_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node Node DetBEX OutBEX DetAEx N40 OutAEx OutAEx DetB N62 N63 N64 N65 N75 N75 N76 N77 N78 N79 DetA_Prop DetC1 DetC2	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.09.27 7070.92 646.36 19.09.27 7064.28 19.0563.11 32.919.43 13.494.63 10.679.35 25.26.73 646.36 3.29.43 2.223.59 2.223.59 2.223.59 2.223.59 2.223.59 2.223.59 2.223.59 2.223.59 2.223.59 2.223.59 2.225.51 2.255.51 2.255.555.555.555.555.555.555.555.555.5	28837 3 802:5 10835.7 7.781.9 781.2 797.8 765.9 805 02 year, 1 ho. Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 25252.73 648.36 329.19.43 1250.8 10679.35 25252.73 648.36 329.43 2223.59 2220.59 20933.32 2855.96 4661.59 2220.59 20933.32 2855.96 4661.59 229.40.83 29.29.45 30.22 29.25.95 20.23.32 28.55.96 4661.59 29.40.83 29.22.59 20.23.32 29.55.96 20.23.32 28.55.96 29.40.83 29.22.59 20.23.32 29.25.95 20.23.32 29.25.95 20.23.32 20.25.95 20.23.32 20.25.95 20.23.32 20.25.95 20.23.32 20.25.95 20.23.32 20.25.95.95 20.25.95.95 20.25.95.95.95 20.25.95.95.95.95.95.95.95.95.95.95.95.9	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetA_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutAEx OutAEx DetB_Prop N62 N63 N64 N65 N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetA_Prop DetA_Prop DetA_Prop DetA_Prop	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.23 16.25 16.21 15.26 26.5 16.21 15.26 16.21 15.26 20.53 1952 16.21 15.26 1952 20.53 2226.59 2220.59 223.59 223.59 223.59 223.59 223.59 223.59 223.59 223.59 231400.79 278.4	28837 3 802.5 10835.7 7.781.9 781.2 797.8 765.3 805 02 year, 1 ho Outflow (cu.m) 7070.92 646.36 1990.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 22526.73 646.36 329.43 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 469.25 10841.74 10828.37 5724.26 2940.83 2925.13 29285.13	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chanic (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEx OutBEX DetBEx OutAEx OutAEx N63 N64 N65 N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetA_Prop DetA_Prop DetC1 DetC2 DetC3	15.87 16.25 16.01 16.23 16.25 16.21 15.26 16.21 15.26 0.00 January 16.25 16.21 15.26 0.00 January 16.25 16.21 15.26 0.00 January 16.25 19.063.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 29.526.73 6.46.36 3.29.19.3 2.220.59 2	28837 3 802.5 10835.7 7.781.9 761.2 797.8 805 102 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 22526.73 646.36 329.43 2223.59 2220.59 2220.59 2293.32 2895.96 4661.59 466.25 10841.74 10828.37 5724.26 2940.83 29295.13 2788.02 2783.07	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 2.16 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC6 CONTINUITY CHEC Node Node DetBEX DetBEX DetBEX DetA_Prop N62 N63 N65 N65 N65 N67 N75 N75 N76 N77 N78 N79 DetA_Prop DetC1 DetA_Prop DetC2 DetC3 DetC2 DetC3 DetC4	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 16.26 16.21 16.25 16.21 16.26 16.27 16.26 16.27 16.26 1909.27 7070.92 646.36 1909.27 7070.92 646.36 1909.27 7050.87 7064.28 19563.11 32919.43 13494.63 10579.35 2525.73 646.36 329.43 2223.59 2220.59 2220.59 2220.59 2220.59 2220.59 20933.32 2895.96 10841.75 10828.37 25795.15 2942.22 31400.79 27894.45 2901.74 4784.45 2901.74	28837 3 802.5 10835.7 7.781.9 781.2 797.8 805 002 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2222.59 2222.59 2223.59 2220.59 2220.59 22033.32 2895.96 4661.59 469.25 10841.74 10828.37 57724.26 2940.83 29295.13 27788.02 27783.07 2900.36	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 3 Storage Chan (cum) 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.059 20ne 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetBEX DetBEX N40 OutAEx DetB_Prop N62 N63 N64 N65 N69 OutB_Prop N75 N76 N77 DetA_Prop DetC1 DetC2 DetC2 DetC3	15.87 16.25 16.01 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 16.25 16.21 16.25 16.21 15.26 10.27 17.508.87 7.070.92 645.36 1909.27 17.508.87 7.064.28 19563.11 19563.11 19563.11 19563.11 19563.13 13494.63 2225.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 20933.32 2895.96 465.159 465.25 10841.75 10828.37 25795.15 2942.22 31400.79 2789.45 2942.45 2789.4	28837 3 802.5 10835.7 7.781.9 781.2 797.8 805 002 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2222.59 2222.59 2223.59 2220.59 2220.59 22033.32 2895.96 4661.59 469.25 10841.74 10828.37 57724.26 2940.83 29295.13 27788.02 27783.07 2900.36	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 2.16 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.059 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N0 DetBEx OutBEx DetAEx N40 OutAEx OutAEx DetBE N62 N63 N64 N65 N76 N77 N78 N79 OutA_Prop DetC1 DetC2 DetC2 DetC3 DetC1 DetC1 DetC2 DetC3 DetC2 DetC3 DetC4 DetC5	15.87 16.25 16.01 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 16.26 16.21 16.25 16.21 16.26 16.27 16.26 16.27 16.26 1909.27 7070.92 646.36 1909.27 7070.92 646.36 1909.27 7050.87 7064.28 19563.11 32919.43 13494.63 10579.35 2525.73 646.36 329.43 2223.59 2220.59 2220.59 2220.59 2220.59 2220.59 20933.32 2895.96 10844.75 10828.37 25795.15 2942.22 31400.79 27894.45 2901.74 4784.45 2901.74	28837 3 802:5 10835.7 7.781.9 781.2 797.8 805 02 year, 1 ho. Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2526.73 646.36 329.19.43 1250.8 10679.35 25226.73 646.36 329.43 2223.59 20933.32 2855.96 4661.59 20933.32 2855.96 4661.59 20933.32 2855.96 4661.59 29245.13 2788.02 2788.02 2788.02 2788.02 2788.02 2788.02 2788.02	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 Cone 1							
DetB_Prop DetA_Prop DetC1 DetC2 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetA_Prop DetA_Prop N62 N63 N64 N85 N75 N76 N77 N78 N79 OutA_Prop DetC2 DetC3 DetC4 DetC3 DetC3 DetC4_Prop	15.87 16.25 16.01 16.23 16.25 16.21 15.26 16.21 15.26 0K for AR&R 19503 19503 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.13 10679.35 2526.73 646.36 329.43 2223.59 2223.59 2223.59 2223.59 2223.59 2223.59 2293.32 2895.96 4661.59 469.25 10841.75 2942.22 31400.79 2789.4 2784.45 2901.74 2685.64 2986.82	28837 3 802:5 10835.7 7.781.9 781.2 797.8 805 102 year, 1 hox Outflow (cu.m) 7070.92 646:36 1909.27 6431.15 7064:38 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2528.73 646:36 32919.43 1250.8 10679.35 2526.73 646:36 329.43 2223.59 2220.59 20933.32 2285.96 4661.59 4662.55 10841.74 10828.37 5724.26 2940.83 29295.13 2788.02 2783.07 2990.36 29285.44	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chanic (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutAEx DetB_Prop N62 N63 N64 N65 N62 N63 N64 N75 N75 N76 N77 N78 N77 DetC1 DetC2 DetC3 DetC4 DetC2 DetC3 DetC4 DetC3 DetC4 DetC5 DetC4 DetC5 DetC4 DetC5 DetC6 N92	15.87 16.25 16.01 16.23 16.25 16.21 16.25 16.21 15.26 CK for AR&R 16.26 16.21 16.26 (cu.m) 7070.92 645.36 1909.27 17508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.13 13494.63 22526.73 646.36 32919.43 13494.63 2220.59 2220.59 20933.32 2895.96 4651.59 469.25 10824.75 10824.75 10828.37 10828.37 10828.37 10828.37 10828.37 10828.37 25755.15 2942.22 31400.79 2789.4 2901.74 2895.86 2901.74 2895.85 2942.22 31400.79 2789.45 2901.74 2869.64 2901.74 2869.64 2905.34	28837 3 802.5 10835.7 7.781.9 761.2 797.8 805 002 year, 1 hox 004flow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2228.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2293.32 2895.96 4661.59 469.25 10841.74 10828.37 5724.26 2940.83 29295.13 27783.07 2900.36 2688.25 2985.44 32655.34	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 2.16 0 0 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 2006 1							
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DetB_Prop DetA_Prop DetC1 DetD2_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetA2 N64 N65 N62 N63 N64 N65 N75 N76 N77 N78 N79 OutA_Prop DetC2 DetC3 DetC3 DetC4 DetC5 DetC3 DetC4 DetC5 DetC4 DetC5 DetC3 DetC4 DetC5 DetC6 DetC6 DetC6 DetC6 DetC6 DetC6 DetC6	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.24 16.25 16.21 15.26 16.21 15.26 16.21 16.26 16.21 15.26 16.21 16.26 16.21 15.26 1909.27 7070.92 646.36 1909.27 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 20933.32 2895.96 466.25 10824.75 10828.37 25795.15 2944.22 31400.79 2789.4 2784.45 2901.74 2869.64 2986.82 32655.34 227555.35 2275555.35 227555.35 227555.35 227555.35 227555.35 2275	28837 3 802:5 10835.7 7.781.9 765.9 805 102 year, 1 hox Outflow (cu.m) 7070.92 646:36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 2526.73 645.36 329.43 2223.59 2220.59 20933.32 2855.96 4661.59 4682.55 10841.74 10828.37 5724.26 2940.83 29295.13 2788.02 2783.07 2978.02 2783.07 2978.02 2783.07 2985.44 32655.34 32655.34 32655.34 32655.34 32655.34	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1_Prop DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutAEX OutAEX OutAEX N63 N64 N65 N65 N76 N77 N78 N79 OutA_Prop DetC1 DetC2 DetC1 DetC2 DetC3 DetC4 DetC3 DetC4 DetC3 DetC4 DetC3 DetC4 DetC5 DetC4 DetC5 DetC4 DetC5 DetC4 DetC5 DetC4 DetC5 DetC6 N9	15.87 16.25 16.01 16.23 16.25 16.21 16.23 16.25 16.21 15.26 16.21 16.26 16.21 16.26 19.09 27.070.92 645.36 19.09.27 17.508.87 7.064.28 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 19.563.11 22.21.59 22.20.59 2	28837 3 802.5 10835.7 7.781.9 761.2 797.8 805 0utflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 221.59 22526.73 646.36 10679.35 2526.73 646.36 329.43 2223.59 2203.32 2895.96 4661.59 469.25 10841.74 75724.26 2940.83 22783.07 75724.26 2940.83 29295.13 2788.02 2783.07 2900.36 2688.25 2985.44 32655.34 32647.08	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.944 1.975 1.916 2.001 2.001 2.001 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0.159 2006 1							
DetB_Prop DetA_Prop DetC_Prop DetC2 DetC3 DetC6 CONTINUITY CHEC Node Node Na DetBEX OutBEX DetA_Prop Node Na DetBEX OutBEX DetAEx N40 OutCEx DetB_Prop N62 N63 N64 N65 N66 N67 N76 N77 N78 N79 DetC1 DetC2 DetC3 DetC4_Prop DetC3 DetC4 DetC3 DetC4 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N95 N96 N97 N	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.25 16.21 15.26 16.21 15.26 16.21 16.26 16.25 16.21 15.26 109.27 7070.92 646.36 1909.27 7070.92 646.36 1909.27 7050.87 7064.28 19563.11 32919.43 13494.63 10679.35 2525.73 646.36 32943.32 2223.59 2220.59 20933.32 2895.96 4661.59 469.25 10841.75 10828.37 25795.15 2942.22 31400.79 27894.45 2947.25 2947.25 2947.25 2947.25 2947.25 10828.37 10828.37 10828.37 25795.15 2942.22 31400.79 27894.45 2901.74 2869.64 10658.71 1909.27 1646.24 10658.71 1909.27 1646.24 10658.71 1909.27 1646.24 10658.71 1909.27 1646.24 10658.71 1909.27 1646.24 10658.71 1909.27 1646.24 10658.71 1909.27 1646.24 10658.71 1909.25 10658.71 1909.25 10658.71 1909.25 10658.71 1909.25 10658.71 1909.25 10658.71 1909.25 10658.71 1909.25 10658.71 10658.71 1099.25 1058.75 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 1099.25 10	28837 3 802:5 10835.7 7.781.9 781.2 797.8 3805 002 year, 1 hox Outflow (cu.m) 7070.92 646:36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 32919.43 1250.8 10679.35 2526.73 646.36 329.43 2223.59 2220.59 22033.32 2895.96 4661.59 469.25 10841.74 10828.37 57724.26 2940.63 29295.13 27783.07 2900.36 2668.25 2985.44 32647.08 10658.71 1909.27 1646.24 1965.88	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Chan. (cu.m) 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
DetB_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node NA NS N8 DetBEX OutBEX DetA2 DetA5 N4 N5 N8 DetBEX OutAEx N62 N63 N64 N75 N76 N77 N78 N79 OutA_Prop DetC2 DetC3 DetC4 DetC5 DetC3 DetC4 DetC5 DetC5 DetC6 N92 OutC_Prop N96 N97 N168 N198 N197	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.24 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 1909.27 7070.92 646.36 1909.27 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2222.59 2223.59 2223.59 2223.59 2223.59 2223.59 20933.32 2895.96 466.25 10824.72 10828.37 25795.15 2944.22 31400.79 2789.4 2784.45 2901.74 2869.64 2986.82 32655.34 1909.27 1646.26 1095.86 1095.86 1095.86 1722.21	28837.3 802.5 10835.7 7.781.9 781.2 797.8 805 02 year, 1 ho. Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 25226.73 646.36 329.19.43 1250.8 10679.35 25226.73 646.36 329.43 2223.59 20933.32 2855.96 4661.59 2220.59 20933.32 2855.96 4663.25 2940.83 29295.13 27783.07 2783.07 2790.36 2668.25 2935.44 32647.08 10658.71 1909.27 1646.26	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
DetB_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetBEX OutBEX DetA_Prop DetAEX N40 OutAEX OutAEX DetB_Prop N62 N63 N64 N65 N76 N77 N78 N79 OutA_Prop DetC2 DetC3 DetC4_Prop DetC4_Prop DetC3 DetC3 DetC4 DetC5 DetC6 N92 OutC2 DetC3 DetC4 DetC5 DetC6 N92 OutC2 DetC5	15.87 16.25 16.01 16.23 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 19.927 17508.87 7064.28 19563.11 19563.11 19563.11 19563.11 19563.13 13494.63 2226.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2220.59 2295.15 2942.22 31400.79 2789.4 25795.15 2942.22 31400.79 2789.4 25795.15 2942.22 31400.79 2789.4 2665.64 3265.5	28837.3 802.5 10835.7 7.781.9 765.9 805 02 year, 1 hox Outflow (cu.m) 7070.92 646.36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2526.73 646.36 1079.35 2526.73 646.36 1059.35 2220.59 20933.32 2285.96 4661.59 4682.55 10841.74 10828.37 5724.26 2940.83 29295.13 2788.02 2783.07 2940.83 2788.02 2783.07 2940.83 29295.54 32947.08 2668.25 2985.84 32655.34 32655.34 32655.34 32655.34 32655.34 32647.08 10658.71 1909.27 1646.24 1965.86 1722.21	2.044 14.48 1.942 1.94 1.975 1.916 2.16 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 0 11081.07 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.976 2.001 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0.159 20ne 1							
DetB_Prop DetA_Prop DetC1 DetD2 DetC2 DetC3 DetC4 DetC5 DetC6 CONTINUITY CHEC Node N4 N5 N8 DetA2 DetC6 CONTINUITY CHEC Node DetB2 DutBEX DetAEX N40 OutAEX DetB2 DetA5 N63 N64 N65 N75 N76 N77 N78 N77 DetA_Prop DetC2 DetC3 DetC4 DetC5 DetC5 DetC6 N92 OutC_Prop DetC5 DetC6 N95 N96 N97 N158 N177 </td <td>15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.24 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 1909.27 7070.92 646.36 1909.27 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2222.59 2223.59 2223.59 2223.59 2223.59 2223.59 20933.32 2895.96 466.25 10824.72 10828.37 25795.15 2944.22 31400.79 2789.4 2784.45 2901.74 2869.64 2986.82 32655.34 1909.27 1646.26 1095.86 1095.86 1095.86 1722.21</td> <td>28837 3 802:5 10835.7 7.781.9 781.2 797.8 805 002 year, 1 hox Outflow (cu.m) 7070.92 646:36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2225.59 2220.59 22033.32 2895.96 4661.59 2220.59 20933.32 2895.96 4661.59 469.25 10841.74 10828.37 5724.26 2940.83 29295.13 2778.07 2900.36 2668.25 2985.44 32655.34 32847.08 10658.71 1909.27 1846.24 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1966.82 1965.88 1722.21 1766.81 288.54</td> <td>2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0.056 14.48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	15.87 16.25 16.01 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.23 16.24 16.25 16.21 15.26 16.21 15.26 16.21 15.26 16.21 15.26 1909.27 7070.92 646.36 1909.27 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2222.59 2223.59 2223.59 2223.59 2223.59 2223.59 20933.32 2895.96 466.25 10824.72 10828.37 25795.15 2944.22 31400.79 2789.4 2784.45 2901.74 2869.64 2986.82 32655.34 1909.27 1646.26 1095.86 1095.86 1095.86 1722.21	28837 3 802:5 10835.7 7.781.9 781.2 797.8 805 002 year, 1 hox Outflow (cu.m) 7070.92 646:36 1909.27 6431.15 7064.28 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 19563.11 2225.59 2220.59 22033.32 2895.96 4661.59 2220.59 20933.32 2895.96 4661.59 469.25 10841.74 10828.37 5724.26 2940.83 29295.13 2778.07 2900.36 2668.25 2985.44 32655.34 32847.08 10658.71 1909.27 1846.24 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1965.88 1722.21 1966.82 1965.88 1722.21 1766.81 288.54	2.044 14.48 1.942 1.94 1.975 1.916 2.16 r storm, average Storage Chan. (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.988 0 1.942 1.94 1.975 1.916 2.001 ge 83.6 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.056 14.48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							

N50	32919.43	32919.43	0	0			
N294	1722.21	1722.21	0				
	990.05	990.05	0				
N320	and the second se	the second s					
N321	3270.52	3270.52	0				
N322	373,52	373.52	0	0			
N323	9977.67	9977.67	0	0	·		
N324	418.52	418.52	0	0			
N325	145.7	145,7	0	0			
N326	14431.86	14431.87	0	0	-	1.	
N327	9946,69	9946.69	0				
N328	4880.01	4880.01	0				
N329	3681,48	3681.48	0				
N329	3081,48	3081.90	0	0			
Run Log for Mooreb							
The maximum flow	exceeded the	safe value in th	he following over	erflow routes: O	F600, OF594.	OF593, OF59	0. OF487, OF485, OF305, OF205, OF131, OF104, OF102, OF101, StageDischarge_D,
DRAINS results pre	pared 09 Augu	ist, 2011 from	Version 2010.0	9			
		1					
PIT / NODE DETAIL	19			Version 8			
	Max HGL	Max Pond	May Surfrage		Min	Overflow	Constraint
Name	Wax FIGL		Max Surface	Max Pond	Min		Constraint
		HGL	Flow Arriving	Volume	Freeboard	(cu.m/s)	
			(cu.m/s)	(cu m)	(m)		
HW2	12.68	9.326			1.52	0	None
N50	12.2	1	0	1			
1		1.	1.				
SUB-CATCHMENT	DETAILS						
Name	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm
	Flow Q	Max Q	Max Q	Tc	Tc	Tc	
			(cu m/s)				
Calub DATe	(CU.M/S)	(cu.m/s)		(nin)	(min)	(min)	AD20 400 user Chause stress and 20 million 7 million
CatchB1Ex	0.213	0	0.213	3	8		AR&R 102 year, 6 hours storm, average 28 mm/h. Zone 1
CatchC1Ex	0.52	0.432	0.088	7	7		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatchBEx	5.314	1.892	3.422	14.5	24		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatchAEx	5.7	2.985	2.715	13.75	15	0	AR&R 102 year. 6 hours storm, average 28 mm/h, Zone 1
CatB1_Prop	1.842	1.842	0	6	3	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatB2(Swate) Prop		0.665	0	9,5	8.5		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatB1Ext_Prop	0.213	0.000	0.213	5	8		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatB2Ext_Prop	0.109	0	0.109	8.5	15.5		AR&R 102 year. 6 hours storm, average 28 mm/h, Zone 1
	-						
CatA1_Prop	1.712	1.712	0		3		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatA2(Swale)_Prop		0.762	0	12	11		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatA1Ex_Prop	1.369	0.661	0.707	13.2	8,3	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatA2Ex_Prop	0,155	0	0.155	0	18	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCa_Prop	0.775	0.775	0	3	0	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCb_Prop	0.734	0,734	0	3	0		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCc_Prop	0.733	0,733	0		0		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
					0		
CatCd_Prop	0.764	0.764	0				AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCe_Prop	0.703	0.703	0		0		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCf_Prop	0.786	0,786	0	3	0	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatC2_Prop	2.806	2.806	0	3	0	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCEx1_Prop	0.52	0.432	0.088	.7	7	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatCEx2_Prop	0.481	0.252	0.228	21.7	25	-	AR&R 102 year. 6 hours storm, average 28 mm/h, Zone 1
Cat_A3_Prop	0.518	0.518	0	3	0		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
Cat Carpark_Ex	0.453	0.453	0	5	0		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
		the second second second	0		0		In the stand of the stand of the stand of the state of th
CatC1_Prop	0.465	0.465					AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatB3Ext_Prop	0.095	0	0.095	-0			AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatchCEx	8.352	5.267	3.086	25	30		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
Cat Carpark_Prop	0.453	0.453	0	5	0		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
Call	0.288	0.151	0.137	5	12	0	AR&R 102 year, 6 hours storm, average 28 mm/n, Zone 1
Cat2	0.932	0.58	0.352	7	15	0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zona 1
Cat3	0,109	0.057	0.052	4	8		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
Cat4	2.711	2.294	0.417	5	15		AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
Cat5	0.122	0.064	0.058	6			AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
Cat6	0.042	0.004	0.030	6			AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatA4_Prop	1.181	1,181	0				AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatA5_Prop	1.334	1.334	0			_	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatA6_Prop	1.285	1,285	0				AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
CatB3_Prop	0.969	0.969	0	6	3	- 0	AR&R 102 year, 6 hours storm, average 28 mm/h, Zone 1
· · · · · · · · · · · · · · · · · · ·	1						
1			1				
Outflow Volumes for	Total Catchin	ent (156 impa	rvious + 61.6 p	ervious = 218 to	otal ha)	1	
Storm				Pervious Runo			
	cu.m			cu.m (Runoff 9			
AR&R 102 year, 6 h				70551.81 (68.2			
				77677.67 (64.3			
AR&R 102 year, 9 h						-	
AR&R 102 year. 12				85737.85 (63.1			
AR&R 102 year, 18				93270.92 (58.0			
AR&R 102 year, 24	648960.81	563771.91 (86	464126.28 (99	99645.63 (54.4	1%)		
	1	1					
PIPE DETAILS	1					1.	
Name	Max Q	MaxV	Max U/S	Max D/S	Due to Storm		
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)			
Pipe13	0.682	0.6			AR&R 102.00	ar 6 hours ch	rm, average 28 mm/n, Zone 1
P18	0.642	0.6	15.712				orm, average 28 mm/h, Zone 1
P20	0.641	0.6	15.711				xm, average 28 mm/n, Zone 1
P22	0.672	0.6	15.717				orm, average 28 mm/n, Zone 1
P24	0.611	0.6	15.706				orm, average 28 mm/h, Zone 1
P26	0.694	0.6					xm, average 28 mm/h, Zone 1
P10	9.326	2.9	12.251				orm, average 28 mm/h, Zone 1
					1	1	
CHANNEL DETAIL	S					1	
the second s		Mayl	Chairson	May	Thus In Char	1	
Name	MaxQ	Max V	Chainage	Max	Due lo Storm	-	
	(cu.m/s)	(m/s)	(m)	HGL (m)			
			1				
OVERFLOW ROUT	E DETAILS		1				
Name	Max Q U/S	Max Q D/S	Safe Q	Max D	Max DxV	Max Width	Max-V Due to Storm
OF9	4.021	4.021	7.665				
013							

OF12 OF26												
	0.213	0.213	7,665	0.046	0.03	13.25	0.63	AR&R 102 ye	ar. 6 hours sto	m. average 2	6 mm/h. Zone	1
DVF20	0.52	0.52	7.665	0.067	0.05	17.38		AR&R 102 yes				
OF1	3.886	3.586	7.665	0.152	0.21	34,44		AR&R 102 ye				
OF19	5.583	5.583	7.665	0.176	0.26	39.11		AR&R 102 ye				
OF17	5,583	5.563	7.665	0.176	0,26	39.11		AR&R 102 ye	and the second se			
StageDischarge_B	2.1	2,1	7.665	0.118	0,14	27.62	1.16	AR&R 102 ye	ar, 9 hours sto	xm, average 2	1.8 mm/h, Zon	ne 1
OF43	2,812	2.812	7,665	0,133	0.17	30.67	1,25	AR&R 102 ye	ar, 6 hours sto	xm, average 2	8 mm/h, Zone	1
OF44	0.665	0.665	7.665	0.074	0.06	18.82	0.85	AR&R 102 yes	ar, 6 hours sto	xm, average 2	8 mm/h, Zone	1
OF46	0.213	0.213	7.665	0.046	0.03	13.25	0.63	AR&R 102 yes	ar, 6 hours sto	rm, average 2	8 mm/h, Zone	1
OF47	0,109	0.109	7.665	0.036	0.02	11.27		AR&R 102 ye				
OF51	2.292	2.292	7.665	0.123	0.15	28.52		AR&R 102 ye				
OF58	5.511	5.511	7.665	0.125	0.26	38.93						
								AR&R 102 yes				
OF59	0,762	0.762	7.665	0.078	0.07	19.54		AR&R 102 yes				
OF60	1,369	1.369	7,665	0.099	0.1	23,85	1.04	AR&R 102 ye	ar. 6 hours sto	orm, average 2	8 mm/h. Zone	1
OF61	0.155	0.155	7.665	0.041	0.02	12.17	0.57	AR&R 102 ye	ar. 6 hours sto	orm, average 2	8 mm/h. Zone	1
OF64	3,487	3.487	7,665	0.145	0.19	33.01	1.33	AR&R 102 yes	ar. 9 hours sto	orm, average 2	1.8 mm/h. Zon	ne 1
StageDischarge_A	2.667	2.667	7.665	0.131	0.16	30.13		AR&R 102 yes				
OF549	0	0		0	0	0	0			1		
StageDischarge_D	7.153	7.153	7.665	0.194	0.31	42.89	1.50	AR&R 102 ye	ar 6 hours str	m average 7	8 mm/h Zone	1
OF550	7.155			0.134		42,05	1.55	Main 102 ye	al, o nours sic	Inn. average z	5 mmm, 2011e	
the second s		0			0		0			-		
OF551	0			0	- 0	0	0			-		
OF552	0			0	0	0	0		1	1		1
OF553	0	0	7,665	0	0	0	0		-			
OF554	0	0	7,665	0	0	0	0	hi				
OF102	8.069	8.069	7.665	0.204	0.33	44.86	1.64	AR&R 102 ye	ar, 6 hours sto	xm, average 2	8 mm/h, Zone	1
OF101	2.806		7.665	0.133	0.17	30.67		AR&R 102 ye				
OF131	0.52	0.52		0.067	0.05	17.38		AR&R 102 ye				
OF104	0.481	0.481	7.665	0.064	0.05	16.84						
								AR&R 102 yes				
OF205	0.518	0.518	7.665	0.066	0.05	17.2		AR&R 102 yes				
OF485	0.453	0.453	7.665	0.063	0.05	16.66		AR&R 102 ye				
OF305	0.465	0.465	7.665	0.063	0.05	16.66		AR&R 102 ye				
OF340	0,095	0.095	7.665	0.035	0,02	10.91	0.48	AR&R 102 ye	ar, 6 hours sto	orm, average 2	8 mm/h. Zone	1
OF28	0	0	7.665	0	0	0	0					1
OF30	9.326	-		0.216	0.37	47.2	1.71	AR&R 102 ye	ar, 6 hours sto	m, average 2	8 mm/h. Zope	1
OF487	0.453	0.453	7.665	0.063	0.05	16.66		AR&R 102 ye		a sea de sea sera de la compañía de	and the second sec	
OF594	3.8	1		0.065	0.05	34.08		the second s				
								AR&R 102 ye				
OF593	2,619	2.619	7.665	0.13	0.16	29.95		AR&R 102 ye				
OF590	1,285	1.285	7.665	0.097	0.1	23,31		AR&R 102 ye				
OF600	0.969	0.969	7.665	0.086	0,08	21.15	0.95	AR&R 102 ye	ar, 6 hours sto	orm, average 2	8 mm/h, Zone	1
	1 · · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·					J			1	T
	1	1.1				-	1 1	2	-			
DETENTION BASIN	DETAILS	-		-	-							
Name	Max WL	MaxVol	Max Q	Max Q	Max Q							
Ivanie	WEAK VWL	Wax vu	Total		2					-		
	1.00			Low Level	High Level			· · · · · · · · · · · · · · · · · · ·	-	-		114
DetBEx	14.8	15697.3	3.886	0	3.886						10 m - 11	
DelAEx	14.13	3736.5	5.583	0	5.583				-			
DetB_Prop	16.02	18015.7	2.1	0	2.1			h:			1	
DetA_Prop	16.07	32685.6	2.667	0	2.667	1.	I				1	1
DetC1	15.74	388.9	0.682	0.682	0		1	hi				
DetD_Prop	15.65	8.0088	7.153	0	7.153			-				
DetC2	15.73	381.1	0.642	0.642	0				-			
		and the second se								-		
DelC3	15.73	380.8	0.641	0.641	0							
DetC4	15.73	386.8	0.672	0.672	- 0	-			-			
DetC5	15.72	375.3	0.611	0.611	0							
DetC6	15.74								-			1
		391.3	0.694	0.694	0				-			
		.391.3	0.694									
CONTINUITY CHEC	CK for AR&R	1		0.694	0							
CONTINUITY CHEC		02 year, 6 hou	urs storm, even	0.694 age 28 mm/h, Z	0							
	Inflow	02 year, 6 hou Outflow	urs storm, even Storage Chan	0.694 age 28 mm/h, Z Difference	0							
Node	Inflow (cu.m)	02 year, 6 hou Outflow (cu.m)	irs storm, even Storage Chan (cu.m)	0.694 age 28 mm/h, Z Difference %	0							
Node N4	Inflow (cu.m) 25661.3	02 year, 6 hou Outflow (cu.m) 25661.28	rs storm, even Storage Chan (cu.m) 0	0,694 age 28 mm/h, Z Difference % 0	0							
Node N4 N5	Inflow (cu.m) 25661.3 1229.91	02 year, 6 hou Outflow (cu.m) 25661.28 1229.91	urs storm, even Storage Chan (cu.m) 0	0,694 age 28 mm/h, Z Difference % 0 0	0							
Node N4 N5 N8	Inflow (cu.m) 25661.3 1229.91 3828.05	02 year, 6 hou Outflow (cu.m) 25661.28 1229.91 3828.05	irs storm, avera Storage Chan (cu.m) 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0	one 1							
Node N4 N5 N8 DetBEx	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07	storm, avera Storage Chan (cu.m) 0 0 0 0 9976.28	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0	one 1							
Node N4 N5 N8	Inflow (cu.m) 25661.3 1229.91 3828.05	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07	storm, avera Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one 1							
Node N4 N5 N8 DetBEx	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07	storm, avera Storage Chan (cu.m) 0 0 0 0 9976.28	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one 1							
Node N4 N5 DetBEx OutBEx	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.59	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59	storm, avera Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.59 38654.02	02 year, 6 hoc Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07	rs storm, evera Storage Chan (cu.m) 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,694 age 28 mm/n, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.59 38654.02 38654.07 38654.07	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38854.07 38854.07	rs storm, even Storage Chan (cu,m) 0 0 0 0 9976.28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx OutCEx	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.59 38654.02 38654.02 38654.07 38654.07	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07	rs storm, ever Storage Chan, (cu.m) 0 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sge 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one 1							
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Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx OutAEx DetB_Prop N62	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.59 38654.02 38854.07 38654.07 38654.07 28654.07 28654.07 217249.21 21591.53	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 256719.52 11570.66 21591.46	storm, evers Storage Chan; (cu,m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutAEx OutCEx DetB_Prop N62 N63	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.39 38654.02 38654.02 38654.07 38654.07 38654.07 28654.07 28654.07 21591.53 5108.56	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 65719.52 11570.66 21591.46 5108.56	rrs storm, even Storage Chan, (cu.m) 0 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference %6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 DetBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N63 N64	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.59 38654.07 38654.07 38654.07 38654.07 27249.21 21591.53 5108.56 1229.91	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3825.05 24437.07 25665.59 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 1229.91	Irs storm, ever Storage Chan, (cu.m) 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sige 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutAEx OutCEx DetB_Prop N62 N63 N64 N65	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.59 38654.02 38654.02 38654.02 38654.02 27249.21 21591.53 5108.56 1229.91 630.3	02 year, 6 hox Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 138654.07 138654.07 138654.07 38654.0738654.07 38654.07 38654.07387 38654.07 38654.07387	Irs storm, ever Storage Chan, (cu.m) 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sge 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 DetBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N63 N64	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.59 38654.07 38654.07 38654.07 38654.07 27249.21 21591.53 5108.56 1229.91	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3825.05 24437.07 25665.59 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 1229.91	storm, ever Storage Chan; (cu,m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
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Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N65 N69	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.8 25665.39 38654.02 38654.02 38654.07 38654.02 27249.21 21591.53 5108.56 1229.91 630.3 13427.41	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07 65719.52 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13427.38	storage Chan (cu,m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference %6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N63 N64 N65 N63 N64 N65 N69 OULB_Prop N75	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.39 38654.02 38654.02 38654.0738655556556	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 65719.52 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13423.93	rs storm, ever Storage Chan, (cu.m) 0 0 0 9976 28 0 0 0 0 0 15679 38 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sige 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutBEx DetAEx N40 OutAEx DetB_Prop N62 N63 N65 N69 OutB_Prop N75 N76	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.59 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 127249.21 21591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.76 5855.05	02 year, 6 hox Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 5108.56 1229.91 630.3 13427.38 13427.38	Irs storm, ever Storage Chan, (cu.m) 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sge 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx DetB_Prop N63 N65 N65 N65 N65 N65 N75 N77	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.39 38654.02 38654.02 38654.07 38654.07 38654.07 38654.07 12591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.76 5855.05 9170.48	02 year, 6 hox Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25665.59 38654.07 38654.07 38654.07 38654.07 38654.07 138654.07 138654.07 38655.05 13427.38 13427.38 13422.71 5855.05 9170.48	storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference %6 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N64 N65 N68 OutB_Prop N75 N76 N77 N78	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.39 38654.02 38654.02 38654.02 38654.07 38654.02 27249.21 21591.53 5108.56 1229.91 830.3 13427.41 13423.93 42322.78 5855.05 91770.48	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25665.59 38654.07 38654.07 38654.07 38654.07 65719.52 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13423.93 42322.71 5855.05 9170.48 899.55	Irs storm, even Storage Chan, (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N63 N64 N65 N66 OutB_Prop N75 N76 N776 N78 N79	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.39 38654.02 38654.02 38654.02 38654.07 38654.07 38654.07 38654.07 65719.52 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.76 5855.05 9170.48 889.55 39825.34	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13423.93 42322.71 5855.05 9170.48 899.55 39825.25	Irs storm, ever Storage Chan; (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sige 28 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutAEx OutAEx DetB_Prop N62 N63 N64 N65 N68 OutB_Prop N75 N76 N77 N78	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.39 38654.02 38654.02 38654.02 38654.07 38654.02 27249.21 21591.53 5108.56 1229.91 830.3 13427.41 13423.93 42322.78 5855.05 91770.48	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13423.93 42322.71 5855.05 9170.48 899.55 39825.25	Irs storm, ever Storage Chan; (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sige 28 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutCEx DetB_Prop N63 N64 N65 N66 OutB_Prop N75 N76 N776 N78 N79	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.39 38654.02 38654.02 38654.02 38654.07 38654.07 38654.07 38654.07 65719.52 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.76 5855.05 9170.48 889.55 39825.34	02 year, 6 hox Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 38654.07 38654.07 38654.07 38654.07 38654.07 3825.15 11570.66 21591.46 5108.56 5108.56 1229.91 630.3 13427.38 13427.38 13422.71 5855.05 9170.48 899.55 39825.25 39811.16	Irs storm, ever Storage Chan, (cu.m) 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sige 28 mm/h, 2 Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
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Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx DetB_Prop N62 N63 N65 N63 N65 N76 N77 N78 N77 DetA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.39 38654.02 38654.02 38654.02 38654.02 38654.02 27249.21 21591.53 5108.56 1229.91 830.3 13427.41 13423.93 42322.76 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5948.57 63465.98 5639.62 5639.62	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 137.38 21591.46 5108.56 1229.91 630.3 13427.38 13427.38 13427.38 13423.93 42322.71 5855.05 9170.48 899.55 39825.25 398211.16 29769.29 5947.83 62510.88 5628.87 5866.01	Irs storm, even Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx DetB DetAEx N40 OutAEx DetB DetB N63 N64 N65 N69 OutB_Prop N76 N77 N78 OutA_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.39 38654.02 38654.02 38654.02 38654.02 38654.07 65719.52 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.76 5855.05 9170.48 899.55 39825.34 5948.57 63465.98 5639.61 5629.62	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 137.38 21591.46 5108.56 1229.91 630.3 13427.38 13427.38 13427.38 13423.93 42322.71 5855.05 9170.48 899.55 39825.25 398211.16 29769.29 5947.83 62510.88 5628.87 5866.01	Irs storm, even Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference %6 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx DetB_Prop N62 N63 N65 N63 N65 N76 N77 N78 N77 DetA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.39 38654.02 38654.02 38654.02 38654.02 38654.02 27249.21 21591.53 5108.56 1229.91 830.3 13427.41 13423.93 42322.76 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5948.57 63465.98 5639.62 5639.62	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 137.38 21591.46 5108.56 1229.91 630.3 13427.38 13427.38 13427.38 13423.93 42322.71 5855.05 9170.48 899.55 39825.25 398211.16 29769.29 5947.83 62510.88 5628.87 5866.01	Irs storm, even Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutBEx DetAEx N40 OutAEx DetB_Prop N62 N63 N65 N65 N75 N76 N77 N78 OutA_Prop DetC2 DetA_Prop DetC2 DetC3 DetC3 DetC3 DetC4 DetC5	Inflow (cum) 25661.3 1229.91 3828.05 34410.6 25665.69 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 45719.52 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13427.41 13423.93 42322.78 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5949.57 63465.98 5639.61 5639.62 5866.74 5397.42	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3825.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 386554.07 38654.07 386554.07 38654.07 38654.07 38654.07 3822.11 530.3 13427.38 13427.38 13427.39 13427.39 13427.39 13427.39 5398.25.25 39811.16 29769.29 5947.83 5638.89 5628.67 5866.01 5396.74 6038.01	rs storm, ever Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 sge 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
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Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutAEx DetB_Prop N63 N65 N65 N69 OutB_Prop N76 N77 N78 N77 DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25655.39 38654.02 38654.02 38654.02 38654.02 38654.02 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.76 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5948.57 63465.98 5639.62 5866.74 5639.62 5866.74 5639.62	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13427.58 13447.58 13457.5	Irs storm, ever Storage Chan (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 age 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutBEx DetAEx N40 OutAEx DetAEx N40 OutAEx DetB_Prop N62 N63 N65 N66 N75 N76 N77 N78 OutA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC6 N95	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.69 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 45719.52 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13427.41 13423.93 42322.78 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5948.57 63465.98 5639.61 5639.62 5866.74 5639.62 5866.74 5897.42 6038.67 6925.24 6925.24 6925.24 5866.74 5897.42 5866.74	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38654.07 38654.07 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13427.39 42322.71 5855.05 9170.48 899.55 39825.25 39811.16 29769.29 5947.83 62510.88 5638.69 5628.87 5866.01 5396.74 6038.01 69252.52 59428.73 21549.71	Irs storm, ever Storage Chan; (cu.m) 0 0 0 0 0 0 9976 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 isge 28 mm/h, Z Difference % 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx OutBEx DetAEx N40 OutAEx OutEx DetB_Prop N62 N63 N65 N65 N76 N77 N78 N77 DetA_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 N95 N95 N95	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.69 38654.02 38654.02 38654.07 38654.07 38654.07 38654.07 38654.07 38654.02 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13423.93 42322.78 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5948.57 63465.98 5639.61 5629.62 5866.74 5397.42 6038.67 69252.44 69252.44 69248.73 21549.71 3828.05	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3828.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 38655.05 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13427.38 13427.38 13427.39 13427.39 13427.39 13427.39 13427.39 13427.39 13427.39 539825.25 39811.16 29769.29 5947.83 5638.89 5628.67 5866.01 5396.74 6038.01 69252.52 69248.73 21549.71 3828.05	Irs storm, ever Storage Chan (cu.m) 0 0 0 9976 28 0 0 0 0 0 15679 38 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 0.694 0.694 0.694 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							
Node N4 N5 N8 DetBEx DetAEx N40 OutBEx DetAEx N40 OutAEx DetAEx N62 N63 N64 N65 N65 N66 N75 N76 N77 N78 OutA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N95	Inflow (cu.m) 25661.3 1229.91 3828.05 34410.6 25665.69 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 38654.02 45719.52 27249.21 21591.53 5108.56 1229.91 630.3 13427.41 13427.41 13423.93 42322.78 5855.05 9170.48 899.55 39825.34 39811.16 52152.43 5948.57 63465.98 5639.61 5639.62 5866.74 5639.62 5866.74 5897.42 6038.67 6925.24 6925.24 6925.24 5866.74 5897.42 5866.74	02 year, 6 ho. Outflow (cu.m) 25661.28 1229.91 3826.05 24437.07 25655.59 38654.07 38654.07 38654.07 38654.07 65719.52 11570.66 21591.46 5108.56 1229.91 630.3 13427.38 13423.93 42322.71 5855.05 9170.48 899.55 39825.25 39821.16 29769.29 5947.83 62510.88 5638.89 5628.87 5866.01 5396.74 6038.01 69252.52 69248.73 21549.71 3828.05 3263.42	Irs storm, even Storage Chan, (cu.m) 0 0 0 0 0 0 0 0 0 0 0 0 0	0.694 0.694 0.694 0.694 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 one 1							

N177	3481.95	3481.95	0	0							
N224	3572.18	3572,18	0	0						1	
N232	549.05	549.05	0	0		10 11			1		1.
HW2	65719.56	65719.52	0	0				1 1 2 2 2 2		1	-
N50	65719.52	65719.52	0	0		10		1 1 1 1 1 1	1	-	
N294	3481.95	3481.95	0	0	1		-	4 14 1	at ha second	- 1	
N320	1954.38	1954.38	0	0			F F		-0		
N321	6495.9	6495.9	0	0					1	-	-
N322	736.45	736.45	0	0					- t t 1		
N323	20034.76	20034.76	0	Ø					-1		n
N324	825.15	825.15	0	0				11.1	1		
N325	287.25	287.25	0	0					-1	-1	
N326	29178	29178.14	0	0	- P	1				1	
N327	20110.33	20110.08	0	0					1		- 1
N328	9866.47	9866.47	0	0							
N329	7443.27	7443.27	0	0		100				-	
Run Log for Mo	porebank_REV02 run	at 14:09:08 pn 9	/8/2011	_	-	-					
	flow exceeded the sa			utes: OF102, OI	30	- 1	1		1	1	- 1