DRAINS Model IRAINS Version: Addeller's Name: Description:	Name and F		r.www.0032100							
	and the second states and the	2010.09 + 5 AL	ugust 2010		o-cranolonnin	alenthonman	AUDI EDBITK. UIT			
Aescoption:		Chris McClella Moorebank O								
		MODIEDank CA	50							
RAINS results prep	ared 02 Septe	mber, 2010 fr	om Version 20	10.09					RESULT	27
							1.1.1.1		CONSCRPTCHING OF BUILDING OF STREET	
TT / NODE DETAIL		Hey Dood	Max Surface	Version 8	Min	Overflow	Constraint		100 YEAR	ARI
lame	Max HGL	Max Pond HGL	Flow Arriving	Max Pond Volume	Min Freeboard	(cu.m/s)	CONSUBIL			
			(cu.m/s)	(cu.m)	(m)					
IW2	12.97	12.746			1.23	0	None	in the second		
150	12.41		0							
SUB-CATCHMENT		1								
Car an area and and an area	Max	Paved	Grassed	Paved	Grassed	Supp.	Due to Storm			
	Flow Q	Max Q	Max Q	TC	Tc	To	Cito to Dioniti			
	(cu.m/s)	(cu.m/s)	(cu.m/s)	(min)	(min)	(min)				
alchB1Ex	0.465	0	0.465	3	8			ar, 20 minutes storm, avei		
atchC1Ex	1.231	1.034	0.197	7	7			ar, 20 minules slorm, aver ar, 2 hours slorm, average		
alch8Ex alchAEx	7.538	3.077	4.462	14.5 13.75	15			ar, 20 minutes storm, average		and the second sec
alB1_Prop	7,233	7.233	9.202	6	3			ar, 20 minutes storm, ave		
alB2(Swale)_Prop	1.51	1.51	0	9.5	8,5	0	AR&R 100 ye	ar, 20 minutes storm, avei	rage 126 mm/h, Zone 1	
alB1Ext_Prop	0.465	0	0.465	5	8			ar, 20 minutes storm, ave		
alB2Ext_Prop	0.17	0	0.17	8.5	15.5			ar, 1 hour storm, average ar, 20 minutes storm, aver		
atA1_Prop atA2(Swate)_Prop	13.308 1.595	13.308 1.595	0	6	3			ar, 20 minutes storm, ave ar, 20 minutes storm, ave		
atA1Ex_Prop	2.808	1.335	1.531	13.2	8.3			ar, 20 minutes storm, ave		
atA2Ex_Prop	0.231	0	0.231	0	18	0	AR&R 100 ye	ar, 1.5 hours storm, avera	ge 54.9 mm/h, Zone 1	
atCa_Prop	2.216	2,216	0	3				ar, 5 minutes storm, avera		
atCb_Prop	2.101	2.101	0					ar, 5 minutes storm, avera ar, 5 minutes storm, avera		
atCc_Prop atCd_Prop	2.098	2.098	0					ar, 5 minutes storm, avera ar, 5 minutes storm, avera		
atCe_Prop	2.100	2.001	0					ar, 5 minutes storm, avera		
atCf_Prop	2.25	2.25	Ö	3	0	0	AR&R 100 ye	ar, 5 minutes storm, avera	age 224 mm/h, Zone 1	
atC2_Prop	8.029	8.029	Q					ar, 5 minutas storm, avera		
atCEx1_Prop	1.231	1.034	0.197	7	7			ar, 20 minutes storm, ave		
atCEx2_Prop at A3 Prop	0.656	0.391	0.288	21.7	25			ar, 1.5 hours storm, avera ar, 5 minutes storm, avera		_
al Carpark_Ex	1.401	1.228	0					ar, 5 minutes storm, avera		
atC1_Prop	1.331	1.331	0	3	and the second se			ar, 5 minutes storm, avera		
al83Ext_Prop	0.208	0	0.208	0				ar, 20 minutes storm, ave		
atchCEx	10.983	7.698	3,592	25				ar, 1 hour storm, average		
al Carpark_Prop	1.228	1.228	0	5	0	0	ARAR 100 ye	ar, 5 minutas storm, avera		
										-
Dutflow Volumes for	Total Catchn	ent (142 impe	rvious + 58.3 p	ervious = 198 t	otal ha)					
		Total Runoff	Impervious Ru	Parvious Runc	off					
	ću.m			cu.m (Runoff \$						í
R&R 100 year, 5 n R&R 100 year, 10				4014.34 (38.2) 8663.64 (53.7)						
R&R 100 year, 15				12028.80 (59.3						
R&R 100 year, 20			58190.62 (97.							
R&R 100 year, 25				16518.80 (62.						
R&R 100 year, 30				18266.49 (63.6						_
R&R 100 year, 45 R&R 100 year, 1 h				22559.39 (65.0 25815.83 (65.0						
R&R 100 year, 1.5				30715.90 (66.)						
R&R 100 year, 2 h				34373.57 (66.)						
R&R 100 year, 3 h				39875.73 (65.)						
R&R 100 year, 4.5	245023 27	221265.07 (8	176132.27 (99	45132.80 (64.)	0%)					of consulate
IPE DETAILS				-		-				
	Max Q	Max V	Max U/S	Max D/S	Due to Storm					
	(cu.m/s)	(m/s)	HGL (m)	HGL (m)			Contraction of the			
ipe13	1.77	1.6						e 224 mm/h, Zone 1		
18	1.693	1.6						e 224 mm/h, Zone 1 e 224 mm/h, Zone 1		
20	1.69	1.6						e 224 mm/h, Zone 1		
24	1.634	1.5		15.896	AR&R 100 ye	ar, 5 minutes	storm, average	e 224 mm/h, Zone 1		
26	1.793	1.7	15.99	15.896	AR&R 100 ye	ear, 5 minutes	storm, average	a 224 mm/h, Zona 1		
10	12.746	3.2	12.48	12.41	AR&R 100 ye	ear, 1.5 hours s	torm, average	54.9 mm/h, Zone 1		
CARACINE DESCRIPTION										
HANNEL DETAILS	S Max Q	Max V	Chainage	Max	Due to Storm					
	(cu.m/s)	(m/s)	(m)	HGL (m)	1			1		
		ľ <u>′</u>		1000		1				
VERFLOW ROUT										
	Max Q U/S	Max Q D/S	Safe Q 0.256	Max D 0.106	Max DxV 0.12	Max Width 25,28	Max V	Due to Storm	storm, average 35.9 mm/h, Zon	e í
F9 F12	1.627	1.627							ites storm, average 35.9 minuto, 200	
F26	1.231	1.231							ites storm, average 126 mm/h, Z	
F40	0		0.258	i C) (0	0			
Fi	1.572	1.572							storm, average 35.9 mm/h, Zon	
)F19	8.334	8.334							storm, average 46.1 mm/h, Zon	
F17 tageDischarge_8	8.334	8.334							storm, average 46.1 mm/h, Zon rs storm, average 27.8 mm/h, Zon	
TALLELASCORTOR ST	7.233	7.233							ites storm, average 126 mm/h, Z	
	1.200	1.51							ites storm, average 126 mm/h, Z	
F43	1.51									
0F43 0F44 0F48	0.465	0.465							ites storm, average 126 mm/h, Z	
0F43 0F44 0F46 0F47	0.465	0.465	0.258	0.043	0.02	12.53	0.58	AR&R 100 year, 1 hour s	storm, average 69.7 mm/h, Zone	1
DF43 DF44 DF46 DF47 DF51 DF58	0.465	0.465 0.17 0.923	0.258	0.043	0.02	12.53 20.79	0.58 0.94	AR&R 100 year, 1 hour AR&R 100 year, 4.6 hou		1 ma 1

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OF60	2.808	2.808	0.258	0.133	0.17	30.67	1.25	AR&R 100 ye	ar, 20 minutes	s storm, average	ge 126 mm/h	Zone 1
OF61	0.231	0.231	0.256	0.048	0.03	13.61	0.64	AR&R 100 ye	ar, 1.5 hours	storm, average	54.9 mm/h,	Zone 1
OF64	3.542	3,542	0.258	0.146	0.19	33.19				s storm, average		
StageDischarge_A	1.461	1.461	0.258	0,102	0.11					storm, average		
StageDischarge_D	7.816	7.816	0.258	0.202	0.33					orm, average 4		
OF 102	9.195	9.195	0.258	0.215	0.38					storm, average		
OF 101	8.029	8.029	0.256	0.203	0.33	44.68	1.64	AR&R 100 ye	ar, 5 minutes	storm, average	e 224 mm/h, i	Zóne 1
OF131	1.231	1.231	0.256	0.095	0.1	22.95				s slorm, average		
OF 104	0.656		0.256	0.073	0.06					storm, average		
OF205	1,481	1,481	0.256	0.103	0.11	24.57				storm, average		
OF485	1.228	1.228		0.095								
			0.256		0,1	22.95				storm, áverag		
OF305	1.331	1.331	0.258	0.098	0.1	23.67				storm, average		
OF340	0.208	0.208	0.258	0.046	0.03	13.25	0.61	AR&R 100 ye	ar, 20 minutes	s storm, average	gs 126 mm/h	Zone 1
OF28	0	0	0.256	0	0	0	0	1.44	S 10 10 10 10	1. A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.1	A CONTRACTOR OF THE
OF30	12.746	12.746	0.256	0.23	0.48	49.99	2 07	ARAR 100 va	ar 15 hours	storm, average	54 9 mm/h	Zone 1
OF487	1.228	1.228	0.256	0.095	0.1	22.95				storm, average		
01401	1.220	1,220	0.200	0.035	0.1	22.33	1.01	Anan ibu ye	ar, o maiotes	Tionin, average	0 224 mmun,	COlle 1
								1		-		
				1				0				1
DETENTION BASIN	DETAILS							1	-			1
Name	Max WL	MaxVoi	Max Q	Max Q	Max Q		1					
			Total	Low Level	High Level	1	area and an and a second		L LISTONIUM		- A Manual Contractor	
DetBEx	14.74	13506.8		o								
DelAEx	14,19	4567.1	8.334	ő				-				
DetB_Prop	15.87	16681.5		0		1	1					1
DetA_Prop	15.78	24891.2	1.461	0	1,461	1	1	1	1	1		
DetC1	16.01	606.6	1.77	1.77	0		1 · · · · · · · · ·			A		(j)
DetD_Prop	15.9	10227.8	7.816	0	7.816		1	1	1	· · · · · · · · · · · · · · · · · · ·		
DetC2	15.99	592.8	1.693	1.693	0			1	del constituet de		i me interio	
					0							
DetC3	15.99	592.4	1,69	1.69				l		1		-
DetC4	18	602.8	1.749	1.749	0					1		141
DetC5	15.98	582.8	1.634	1.634	0					-		
DetC6	16.01	610.9	1,793	1.793	0		F				· · · ·	11
		1			-		1				1	1
CONTINUITY CHEC	CK for APPP	00 year 1 hou	I stom over	a 69 7 mmth	Cone 1	1		1		1	t	1
										1		
Noda	Inflow	Outflow	Storage Chan	Millelelice						-		
	(cu.m)	(cu.m)	(cu.m)	79								Charles and the second second
N4	3835.12	3835.11	0									(1) () () () () () () () () ()
N5	497.8	497.8	0	0			1		1			1
NB	1571.57	1571.57	0			1				1	1	1
DelBEx	13909.94	3343.19		0		1		-	1 1	1	1	1
								1	<u> </u>			1
OutBEx	3829 24	3829.24	0			-	1			1		
DetAEx	15759.35	15759.39					- Sections					
N40	15759.39	15759.39	0	0								
OutAEx	15759.39	15759.39	0	0	1		1	1	1			· · ·
OutCEx	26769.13	26769.13	0	Q Q		1						
N57		0	0									
	11582.45											1
DetB_Prop		1128.4	10455.42							1		
N62	9258.7	9258.7	0	0								
N63	2101.53	2101.53	0									
	2101.53 497.8	2101.53 497.8	0	0								1
N63 N64	497.8	497.8	0	0								
N63 N64 N65	497.8 253.49	497.8 253.49	0	0 0 0								
N63 N64 N65 N69	497.8 253.49 1876.98	497.8 253.49 1876.98	0 0 0	0 0 0								
N63 N64 N65 N69 Out8_Prop	497.8 253.49 1876.98 1874.28	497.8 253.49 1876.98 1874.28	0 0 0 0	0 0 0 0 0								
N63 N64 N65 N69 Out8_Prop N75	497.8 253.49 1876.98 1874.28 17036.23	497.8 253.49 1876.98 1874.28 17036.23	0 0 0 0 0	0 0 0 0 0								
N63 N64 N65 N69 Out8_Prop	497.8 253.49 1876.98 1874.28	497.8 253.49 1876.98 1874.28	0 0 0 0	0 0 0 0 0								
N63 N64 N65 N69 Out8_Prop N75	497.8 253.49 1876.98 1874.28 17036.23	497.8 253.49 1876.98 1874.28 17036.23	0 0 0 0 0	0 0 0 0 0 0 0 0								
N63 N64 N65 N69 Out8_Prop N75 N75 N76 N76 N77	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0								
N63 N64 N65 N69 Out8_Prop N75 N75 N75 N76 N77 N78	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94	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								
N63 N64 N65 N69 Oul8_Prop N75 N76 N77 N78 N78 N78 N78	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 Out8_Prop N75 N76 N77 N78 N77 N78 OutA_Prop	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51										
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N77 N77 N78 N79 OutA_Prop DetA_Prop	497.8 253.49 1876.88 1874.28 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32	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 0 0 0								
N63 N64 N65 N69 Out8 Prop N75 N76 N77 N77 N78 N77 OutA_Prop DetA_Prop DetA_Prop DetC1	497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.61 21079.91 2447.09	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.61 5312.32 2445.91	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N77 N77 N78 N79 OutA_Prop DetA_Prop	497.8 253.49 1876.88 1874.28 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91	497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32	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 0 0 0								
N63 N64 N65 N69 Out8 Prop N75 N76 N77 N77 N78 N77 OutA_Prop DetA_Prop DetA_Prop DetC1	497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04	497.8 263.49 1876.98 17036 23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 Out8_Prop N76 N77 N78 Out9_Prop Det0_Prop Det0C2	497.8 253.49 1876.98 1876.98 17038.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2320	497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N76 N776 N776 N776 N776 N776 Detta_Prop DetA_Prop DetC1 DetC2 DetC3	497.8 253.49 1676.88 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88	497.8 253.49 1876.98 1703623 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetC_Prop DetC2 DetC3 DetC4	497.8 253.49 1876.98 1876.98 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2477.09 26100.04 2315.88 2413.43	497.8 253.49 1876.98 1876.98 17036 23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2314.69 2412.24	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N669 Out8_Prop N75 N76 N77 N78 Out4_Prop Det4_Prop Det0_Prop DetC2 DetC3 DetC4 DetC5	497.8 225.49 1876.88 1874.28 17038.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2413.43 2220.38	497.8 263.49 1876.98 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2314.62 2314.24	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N76 N776 N776 N776 N776 N777 N78 N79 OutA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC3 DetC4 DetC5 DetC5 DetC6	497.8 253.49 1676.88 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2230.28 2447.09 26100.04 2230.88 2443.43 2220.38 2484.19	497.8 263.49 1876.98 1876.98 1876.98 17036.23 2408.62 3744.73 360.94 9405.75 9393.61 5312.32 2445.91 2445.91 2445.91 2314.69 2415.24 2318.81 2314.69 2412.24 2219.2 2483	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92	497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2315.88 2413.43 2220.38 2484.19 26905.86	497.8 497.8 263.49 1876.98 1874.28 17036.23 2406.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 24155.4 2318.61 2314.69 2412.24 2219.2 2483 26905.66	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N67 N76 N77 N78 N77 OutA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC3 DetC4 DetC5 DetC5	497.8 253.49 1676.88 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2230.28 2447.09 26100.04 2230.88 2443.43 2220.38 2484.19	497.8 497.8 263.49 1876.98 1874.28 17036.23 2406.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 24155.4 2318.61 2314.69 2412.24 2219.2 2483 26905.66	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92	497.8 253.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2413.43 2220.38 2484.19 26905.86 26897.83	497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2445.91 2412.24 2219.2 2468.65 26905.66 26897.63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N67 N76 N77 N78 N77 OutA_Prop OutA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N95	497.8 225.49 1676.88 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.01 2447.09 26100.04 2315.88 2413.43 2220.38 2484.19 26905.86 26897.83 8865.05	497.8 263.49 1876.98 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 2415.54 2318.81 2314.69 2412.24 2219.2 2483 26905.65 26897.63 8865.05	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB_Prop N76 N77 N78 N77 N78 N79 OutA_Prop DetC1 DetC1 DetC2 DetC4 DetC5 DetC4 DetC5 N92 OutC_Prop N93	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2315.88 2413.43 2220.38 2484.19 25905.86 26897.93 8865.05 1571.57	497.8 497.8 263.49 1876.98 1874.28 17036.23 2406.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 24155.4 2314.69 2415.24 2314.69 2412.24 2219.2 2483 26905.66 26897.93 8865.05 1571.57	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 Out8 Prop N75 N76 N77 N78 Out4_Prop Det4_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 Out2_Prop N93 N98 N97	497.8 253.49 1874.28 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2443.43 2220.38 2443.43 2220.38 2444.19 26905.86 26897.93 8865.05 1671.57 1325.57	497.8 497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2463.91 2412.24 2219.2 2463.91 2415.54 2517.67 1325.57	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB Prop N75 N76 N77 N78 N79 OutA Prop DetA Prop DetC1 DetC2 DetC3 DetC4 DetC3 DetC4 DetC5 DetC6 N92 N93 N97 N169	497.8 253.49 1676.88 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 28100.04 2315.88 2413.43 2220.38 2484.19 26905.86 26897.93 8865.05 1671.57 1325.57 1633.06	497.8 253.49 1876.98 1876.98 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 2415.4 2314.69 2412.24 2483 26905.66 26897.93 8865.05 1571.57 1325.57 1325.57 1635.06	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N67 N76 N77 N78 N77 N78 N79 OutA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N92 OutC_Prop N93 N96 N97 N169 N177	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2325.88 2413.43 2220.38 2443.19 25905.86 26879.03 88865.05 1671.57 1635.66 1432.39	497.8 497.8 263.49 1876.98 1874.28 17036.23 32408.62 3744.73 3360.94 9405.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 2483 26905.66 26897.93 8865.05 1571.57 1325.57	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N66 OutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N93 N946 N97 N177 N124	497.8 253.49 1676.88 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 28100.04 2315.88 2413.43 2220.38 2484.19 26905.86 26897.93 8865.05 1671.57 1325.57 1633.06	497.8 497.8 253.49 1877.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2485.9 2412.24 2219.2 2485.9 165.75 165.57 1325.57 1635.06 1432.30 1465.49 1465.49	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N67 N76 N77 N78 N77 N78 N79 OutA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N92 OutC_Prop N93 N96 N97 N169 N177	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2325.88 2413.43 2220.38 2443.49 25905.86 2443.43 2220.38 8865.05 1671.57 1635.66 1432.39	497.8 497.8 263.49 1876.98 1874.28 17036.23 32408.62 3744.73 3360.94 9405.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 2483 26905.66 26897.93 8865.05 1571.57 1325.57	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N65 N67 N76 N77 N78 N77 Out8_Prop Out4_Prop Det4_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 N93 N96 N97 N169 N177 N1224 N232	497.8 253.49 1676.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2444.19 26905.86 26897.93 8865.05 1671.57 1635.06 1432.39 1469.49 222.22	497.8 497.8 253.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2314.69 2314.69 2412.24 2419.2 2483 26595.565 26897.93 8865.05 1571.57 1325.57 1635.06 1432.39 2469.22 22	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N65 N67 N76 N76 N77 N78 N77 OutA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N92 N92 N93 N169 N177 N224 N232 Hw2	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2315.88 2413.43 2220.38 2443.19 25905.86 26897.93 88865.05 1671.57 1635.06 1492.39 1469.49 222.22 26769.13	497.8 497.8 263.49 1877.98 1877.98 1874.28 17036.23 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 2483 26905.66 26897.93 8865.05 1571.87 1325.57 1635.06 1492.39 1469.49 222.22 26769.13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N93 N97 N169 N177 N1224 W22 N50	497.8 253.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 933.51 21079.91 2447.09 2447.09 2447.09 2447.09 2447.09 2413.43 2220.38 2443.43 2220.38 2443.43 2220.38 2484.19 26905.66 1632.57 1635.66 1432.39 1469.49 222.22 26769.13 26769.13 26769.13	497.8 497.8 253.49 1877.98 1874.28 17036.23 2408.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 248.97 03 8865.05 26897.03 8865.05 1671.67 1325.57 1635.66 1432.39 1469.49 222.22 28769.13 26766.13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N65 N67 N76 N76 N77 N78 N77 OutA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N92 N92 N93 N169 N177 N224 N232 Hw2	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2315.88 2413.43 2220.38 2443.19 25905.86 26897.93 88865.05 1671.57 1635.06 1492.39 1469.49 222.22 26769.13	497.8 497.8 263.49 1877.98 1877.98 1874.28 17036.23 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 2483 26905.66 26897.93 8865.05 1571.87 1325.57 1635.06 1492.39 1469.49 222.22 26769.13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
N63 N64 N65 N65 N67 N75 N76 N77 N78 N79 Out& Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N92 OutC_Prop N106 N97 N169 N177 N224 N232 HW2 N50 N294 Run Log for Mooreb The maximum flow	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2325.88 2413.43 2220.38 2443.19 28905.66 26897.93 88865.05 1671.57 1635.66 1432.39 1469.49 222.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 223.29 26769.13 26769.14 223.29 26769.13 26769.14 26769.14 222.29 26769.13 26769.14 26769.15 27769.15 27769.15 27769.15 27769.15 27769.15 27776.15 277776.15 277777776.15 2777777777777777777777777777777777777	497.8 497.8 263.49 1877.98 1874.28 17036.23 32408.62 3744.73 3360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 24837.93 8865.05 1571.57 1325.57 1635.66 1432.39 1455.49 26769.13 26769.13 1432.39 1432	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C		OF305, OF20	5, OF 131, OF	104, OF 102, C	F101, StageD	Jischarge_D, C		ischarge_A, OF60
N63 N64 N65 N69 OutB_Prop N75 N76 N77 N78 N79 OutA_Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N93 N97 N169 N177 N1224 N224 N50 N294 Run Log for Mooreb	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2325.88 2413.43 2220.38 2443.19 28905.66 26897.93 88865.05 1671.57 1635.66 1432.39 1469.49 222.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 223.29 26769.13 26769.14 223.29 26769.13 26769.14 26769.14 222.29 26769.13 26769.14 26769.15 27769.15 27769.15 27769.15 27769.15 27769.15 27776.15 277776.15 277777776.15 2777777777777777777777777777777777777	497.8 497.8 263.49 1877.98 1874.28 17036.23 32408.62 3744.73 3360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 24837.93 8865.05 1571.57 1325.57 1635.66 1432.39 1455.49 26769.13 26769.13 1432.39 1432	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C		OF305, OF20	5, OF 131, OF	104, OF102, C	F101, StageD	Jischarge_D, C		ischarge_A, OF60
N63 N64 N65 N65 N67 N75 N76 N77 N78 N79 Out& Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N92 OutC_Prop N106 N97 N169 N177 N224 N232 HW2 N50 N294 Run Log for Mooreb The maximum flow	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2325.88 2413.43 2220.38 2443.19 28905.66 26897.93 88865.05 1671.57 1635.66 1432.39 1469.49 222.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 26769.13 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 223.29 26769.13 26769.14 223.29 26769.13 26769.14 26769.14 222.29 26769.13 26769.14 26769.15 27769.15 27769.15 27769.15 27769.15 27769.15 27776.15 277776.15 277777776.15 2777777777777777777777777777777777777	497.8 497.8 263.49 1877.98 1874.28 17036.23 32408.62 3744.73 3360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 24837.93 8865.05 1571.57 1325.57 1635.66 1432.39 1455.49 26769.13 26769.13 1432.39 1432	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C		OF305, OF20	5, OF 131, OF	104, OF102, C	F101, StageD	Jischarge_D, C	F64, StageD	ischarge_A, OF60
N63 N64 N65 N69 OutB Prop N75 N76 N77 N78 N79 OutA Prop DetA Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 N93 N96 N97 N169 N177 N224 N50 N50 N294 DRAINS results pre	497.8 253.49 1676.98 1874.28 17036.23 2408.62 2408.62 2408.62 2408.62 2408.62 2408.62 2408.62 3360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2443.43 2220.38 2447.09 26100.04 2335.57 1635.66 1432.39 1469.49 222.22 26769.13 1432.39 1469.49 222.22 26769.13 1432.39 1432.	497.8 497.8 263.49 1877.98 1874.28 17036.23 32408.62 3744.73 3360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 24837.93 8865.05 1571.57 1325.57 1635.66 1432.39 1455.49 26769.13 26769.13 1432.39 1432	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C		OF305, OF20	5, OF131, OF	104, OF102, C	F101, StageD	Discharge_D, C	JF64, SiageD	ischarge_A, OF80
N63 N84 N85 N85 N85 N75 N76 N77 N78 N79 Out8, Prop DetA, Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop N169 N177 N224 N232 HW2 N50 N294 The maximum ficw DRAINS results pre PIT / NODE DETAIL	497.8 497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2414.70 26100.04 2320.38 2413.43 2220.38 2413.43 2220.38 2443.19 26905.66 26807.93 8865.05 1671.57 1635.66 1432.39 1459.49 26769.13 27769.14 27769.15 2776	497.8 497.8 263.49 1877.98 1874.28 17036 23 2406.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2318.85 26897.93 8865.05 1571.57 1635.66 1432.39 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, CF485,			104, OF102, C	F101, StageD	Scharge_D, C) // // // // // // // // // // // // //	ischarge_A, OF80
N63 N64 N65 N65 N65 N75 N75 N76 N77 N78 N79 Out4, Prop Det2, Prop Det3, Prop Det4, Prop N93 N93 N97 N177 N224 Run Log for Mooreb The maximum flow DRAINS results pre	497.8 253.49 1676.98 1874.28 17036.23 2408.62 2408.62 2408.62 2408.62 2408.62 2408.62 2408.62 3360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2443.43 2220.38 2447.09 26100.04 2335.57 1635.66 1432.39 1469.49 222.22 26769.13 1432.39 1469.49 222.22 26769.13 1432.39 1432.	497.8 497.8 253.49 1877.98 1874.28 17036 23 2408.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 2483 26905.68 26897.93 8805.05 1571.57 1325.57 1635.06 1452.39 26769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277767769.13 277769.13 277769.13 2777777769.13 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF 485, Min	Ovenlow	5, OF 131, OF	104, OF102, C	F101, StageD	kscharge_D, C	JF64, StageD	ischarge_A, OF60
N63 N64 N65 N65 N67 N75 N76 N77 N78 N79 Out8, Prop Det4, Prop Det7 Det6, Prop Det62 Det63 Det64 Det65 Det65 Det65 N92 Out6_Prop N169 N177 N224 N232 HW2 N50 N294 The maximum licw DRAINS results pre Pt / NODE DETAIL	497.8 497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2414.70 26100.04 2320.38 2413.43 2220.38 2413.43 2220.38 2443.19 26905.66 26807.93 8865.05 1671.57 1635.66 1432.39 1459.49 26769.13 26769.14 26769.14 26769.14 26769.14 26769.15 26769.15 26769.15 26769.15 26769.15 26769.13 27769.14 27769.15 2776	497.8 497.8 263.49 1877.98 1874.28 17036 23 2406.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2318.85 26897.93 8865.05 1571.57 1635.66 1432.39 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39 1432.55 1432.39 1432.39 1432.55 1432.39	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, Min			104, OF 102, C	F101, StageD	Jischarge_D, C		ischarge_A, OF60
N63 N84 N85 N85 N85 N75 N76 N77 N78 N79 Out8, Prop DetA, Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 Out2, Prop DetC5 DetC6 N92 Out2, Prop N169 N177 N224 N232 HW2 N50 N234 The maximum flow DRAINS results pre PIT / NODE DETAIL Name	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2320.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 245.76 1432.39 1459.49 26769.13 26769.14 26769.14 26769.14 26769.15 26769.15 26769.15 26769.15 26769.15 26769.13 26769.13 26769.13 26769.14 26769.15 27769.15 2776	497.8 497.8 263.49 1877.98 1874.28 17036 23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2318.65 55.556.65 1432.39	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, Freeboard (m)	Overflow (cu.m/s)	Constraint	104, OF 102, C	F101, StageD	Jischarge_D, C	F64, StageD	ischarge_A, OF60
N63 N64 N65 N66 N67 N75 N76 N77 N78 N77 N78 N77 DetA DetC1 DetC2 DetC3 DetC4 DetC5 DetC4 N92 OutC Prop N93 N94 N177 N1224 N232 HW2 DRAINS fesuits pre PIT / NODE DETAIL Name HW2	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2220.38 2447.09 26100.04 2220.38 2443.43 2220.38 2484.19 2690.56 26897.83 885.05 1671.57 1325.57 1635.06 1452.39 1469.49 222.22 26769.13 26769.14 22.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 22.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 22.22 26769.13 2722.25 2757676.25 27576.25 27576.25 27576.25 27576.25 275767	497.8 497.8 253.49 1877.98 1874.28 17036 23 2408.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 2483 26905.68 26897.93 8805.05 1571.57 1325.57 1635.06 1452.39 26769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 276769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277769.13 277767769.13 277769.13 277769.13 2777777769.13 2	0 0 0 0 0 0 0 0 0 0 0 0 0 19773.72 1.19 1.19 1.19 1.19 1.19 1.19 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, Min	Overflow (cu.m/s)		104, OF102, C	F101, StageD	Discharge_D, C	5764, StageD	ischarge_A, OF60
N63 N84 N85 N85 N85 N75 N76 N77 N78 N79 Out8, Prop DetA, Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 Out2, Prop DetC5 DetC6 N92 Out2, Prop N169 N177 N224 N232 HW2 N50 N234 The maximum flow DRAINS results pre PIT / NODE DETAIL Name	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2320.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 2443.43 2220.38 245.76 1432.39 1459.49 26769.13 26769.14 26769.14 26769.14 26769.15 26769.15 26769.15 26769.15 26769.15 26769.13 26769.13 26769.13 26769.14 26769.15 27769.15 2776	497.8 497.8 263.49 1877.98 1874.28 17036 23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2318.65 55.556.65 1432.39	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, Freeboard (m)	Overflow (cu.m/s)	Constraint	104, OF 102, C	F 101, StageD	bischarge_D, C	564, StageD	ischarge_A, OF60
N63 N64 N65 N69 OutB_Prop N76 N77 N78 N77 N78 N79 OutA_Prop DeltA_Prop DeltC1 DeltD_Prop DeltC2 DeltC3 DeltC4 DeltC5 N95 N95 N96 N97 N169 N177 N224 N220 N224 N294 DRAINS results pre PIT / NODE DETAIL Name HW2	497.8 497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2220.38 2447.09 26100.04 2220.38 2443.43 2220.38 2484.19 2690.56 26897.83 885.05 1671.57 1325.57 1635.06 1452.39 1469.49 222.22 26769.13 26769.14 22.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 22.22 26769.13 26769.13 26769.13 26769.13 26769.13 26769.14 22.22 26769.13 2722.25 2757676.25 27576.25 27576.25 27576.25 27576.25 275767	497.8 497.8 263.49 1877.98 1874.28 17036 23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2318.65 55.556.65 1432.39	0 0 0 0 0 0 0 0 0 0 0 0 0 19773.72 1.19 1.19 1.19 1.19 1.19 1.19 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, Freeboard (m)	Overflow (cu.m/s)	Constraint	104, OF102, C	F101, StageD	Discharge_D, C)F64, StageD	ischarge_A, OF60
N63 N64 N65 N69 Out8 Prop N75 N76 N77 N78 N79 Out4, Prop Det7, Prop Det7, Prop Det7, Prop Det6, Prop N93 N94 N95 N177 N124 N35 N97 N169 N177 N224 N232 HW2 N50 DRAINS results pre PT / NODE DETAIL Name HW2 N50	497.8 497.8 263.49 1876.98 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2414.70 26100.04 2320.38 2413.43 2220.38 2413.43 2220.38 2413.43 2220.38 2443.19 26905.66 26807.93 8865.05 1671.57 1635.66 1432.39 1459.49 222.22 26769.13 2776.25 2776.2	497.8 497.8 263.49 1877.98 1874.28 17036 23 2408.62 3744.73 360.94 9405.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2314.69 2412.24 2219.2 2443.91 2318.81 2318.65 55.556.65 1432.39	0 0 0 0 0 0 0 0 0 0 0 0 0 19773.72 1.19 1.19 1.19 1.19 1.19 1.19 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, CF485, Freeboard (m)	Overflow (cu.m/s)	Constraint	104, OF 102, C	F101, StageD	Jischarge_D, C		ischarge_A, OF60
N63 N84 N85 N85 N85 N85 N85 N85 N76 N77 N78 N77 OutA, Prop DetA_Prop DetC1 DetD_Prop DetC2 DetC3 DetC4 DetC5 DetC4 DetC5 N95 N96 N177 N1224 N224 N232 HW2 N50 N234 Run Log for Mooreb The maximum Row DRAINS results pre PIT / NODE DETAIL Name HW2 N50 SUB-CATCHMENT	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2220.38 2413.43 2220.38 2484.19 26609.13 1825.57 1835.06 1452.39 1469.49 22222 26769.13 20769.13 1452.39 1452.49 1452.39 1452.49 26769.13 26769.14 22.22 26769.13 26769.13 26769.13 26769.13 26769.14 22.25 26769.13 26769.13 26769.14 20.25 26769.13 2722 275769.13 27222 275769.13 27222 275769.13 27222 275769.13 27222 275769.13 27222 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.14 27576769.13 275769.13 275769.13 275769.14 275769.15 2	497.8 497.8 263.49 1877.98 1874.28 1770.56 23 2406.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 248.3 26905.66 26897.93 8865.05 1671.57 1325.57 1635.06 1432.39 1465.49 22222 26769.13 26769.14 202.22 2769.13 26769.13 26769.13 26769.13 26769.14 202.67 26769.13 26769.13 26769.14 27.696 Max Pond HGL	0 0 0 0 0 0 0 0 0 0 0 0 0 19773.72 1.19 1.19 1.19 1.19 1.19 1.19 1.19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, F487, OF485, Min Freeboard (m) 1.68	Overflow (cu.m/s) 0	Constraint		F101, StageD	Vischarge_D, C	F64, StageD	ischarge_A, OF60
N63 N64 N65 N69 Out8 Prop N75 N76 N77 N78 N79 Out4, Prop Det7, Prop Det7, Prop Det7, Prop Det6, Prop N93 N94 N95 N177 N124 N35 N97 N169 N177 N224 N232 HW2 N50 DRAINS results pre PT / NODE DETAIL Name HW2 N50	497.8 497.8 253.49 1874.28 17036.23 2408.62 3744.73 360.84 9405.76 9393.51 21079.91 2447.09 26100.04 2320 2315.88 2443.43 2220.38 2447.09 26100.04 2315.88 2443.43 2220.38 2447.09 26100.04 2315.87 1635.06 1432.39 1469.49 222.28 1635.67 1432.39 1469.49 222.68 1432.39 1469.49 222.68 1637.157 1635.06 1432.39 1469.49 222.68 1637.157 1635.06 1432.39 1469.49 222.68 1637.157 1635.06 1432.39	497.8 497.8 253.49 1877.98 1874.28 177036.23 24006.62 3744.73 360.94 9405.75 9333.51 5312.32 2445.91 2415.4 2318.81 2314.69 2412.24 2219.2 248.9 2412.24 2219.2 248.9 1635.65 1637.167 1325.57 1635.66 1432.39 143	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, Min Freeboard (m) 1.68 Grassed	Overflow (cu.m/s) 0 Supp.	Constraint		F 101, StageD	Discharge_D, C	564, SiageD	ischarge_A, OF80
N63 N64 N65 N65 N65 N65 N65 N65 N75 N75 N77 N78 N77 DetA_Prop DetA_Prop DetC1 DetC2 DetC3 DetC4 DetC5 DetC6 N92 OutC_Prop Ne6 N92 OutC_Prop Ne6 N97 N169 N177 N224 N232 HW2 N50 DRAINS results pre PIT / NODE DETAIL Name HW2 N50 SUB-CATCHMENT	497.8 263.49 1874.28 17036.23 2408.62 3744.73 360.94 9405.76 9393.51 21079.91 2447.09 26100.04 2220.38 2413.43 2220.38 2484.19 26609.13 1825.57 1835.06 1452.39 1469.49 22222 26769.13 20769.13 1452.39 1452.49 1452.39 1452.49 26769.13 26769.14 22.22 26769.13 26769.13 26769.13 26769.13 26769.14 22.25 26769.13 26769.13 26769.14 20.25 26769.13 2722 275769.13 27222 275769.13 27222 275769.13 27222 275769.13 27222 275769.13 27222 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.13 275769.14 27576769.13 275769.13 275769.13 275769.14 275769.15 2	497.8 497.8 263.49 1877.98 1874.28 1770.56 23 2406.62 3744.73 360.94 9406.75 9393.51 5312.32 2445.91 24155.4 2318.81 2314.69 2412.24 2219.2 248.3 26905.66 26897.93 8865.05 1671.57 1325.57 1635.06 1432.39 1465.49 22222 26769.13 26769.14 202.22 2769.13 26769.13 26769.13 26769.13 26769.14 202.67 26769.13 26769.13 26769.14 27.696 Max Pond HGL	0 0 0 0 0 0 0 0 0 0 0 0 0 19773.72 1.19 1.19 1.19 1.19 1.19 1.19 1.19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	F487, OF485, F487, OF485, Min Freeboard (m) 1.68	Overflow (cu.m/s) 0	Constraint		F101, StageD	bischarge_D, C	F64, StageD	ischarge_A, OF60

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Bit Counting	
Cardon Cirk 0.381 0.38 0.071 7 7 0.4AR8 103 yase, 5 hours stom, servage 33.3 mmh, Zone 1 Cardon Ask 4.550 1.751 2.720 14.6 24 0.4AR8 100 yase, 5 hours stom, servage 33.3 mmh, Zone 1 Cardon Ask 4.653 2.449 0.6 6 0 0.4AR8 100 yase, 5 hours stom, servage 33.3 mmh, Zone 1 Cardon Ask 0.6	
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OF1 2.837 2.837 7.865 0.128 0.16 29.59 1.21 ÅR&R 100 year, 9 hours storm, average 18.2 mr/h, Zone OF19 4.585 4.585 7.865 0.162 0.23 36.42 1.43 ÅR&R 100 year, 9 hours storm, average 23.3 mr/h, Zone OF17 4.585 4.585 7.685 0.162 0.23 36.42 1.43 ÅR&R 100 year, 6 hours storm, average 23.3 mr/h, Zone OF17 4.585 4.585 7.685 0.162 0.23 36.42 1.43 ÅR&R 100 year, 6 hours storm, average 23.3 mr/h, Zone StageDischarge_B 1.847 1.847 7.665 0.112 0.13 26.36 1.13 ÅR&R 100 year, 6 hours storm, average 15.3 mr/h, Zone OF43 2.439 7.665 0.125 0.15 29.06 1.21 ÅR&R 100 year, 6 hours storm, average 2.33 mr/h, Zone OF44 0.554 0.554 7.665 0.069 10.71 AR&R 100 year, 6 hours storm, average 2.33 mr/h, Zone OF44 0.544 0.554 7.665 0.069 10.74 0.81 ÅR&R 100 year, 6 hours storm, average 2.33 mr/h, Zone OF46 0.173 0.173 </td <td></td>	
OF 19 4.585 4.585 7.665 0.162 0.23 36.42 1.43 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF 17 4.585 4.585 7.665 0.162 0.23 36.42 1.43 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone StageDischarge_B 1.847 7.665 0.112 0.13 26.36 1.13 AR&R 100 year, 6 hours storm, average 15.3 mm/h, Zone OF 43 2.439 7.665 0.125 0.15 29.06 1.21 AR&R 100 year, 6 hours storm, average 15.3 mm/h, Zone OF 44 0.554 0.554 7.665 0.025 0.15 29.06 1.21 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF 44 0.554 7.665 0.069 0.06 17.74 0.81 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF 46 0.173 0.173 7.685 0.043 0.03 12.53 0.59 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	1
OF17 4.585 4.585 7.685 0.162 0.23 36.42 1.43 AR&R 100 year, 8 hours storm, average 23.3 mm/h, Zone StageDischarge_B 1.847 7.665 0.112 0.13 26.36 1.13 AR&R 100 year, 12 hours storm, average 15.3 mm/h, Zone OF43 2.439 2.439 7.665 0.125 0.15 29.06 1.21 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF44 0.554 0.554 7.665 0.006 17.74 0.81 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF46 0.173 0.173 7.685 0.003 12.53 0.59 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
StageDischarge_B 1.847 1.847 7.665 0.112 0.13 26.36 1.13 AR&R 100 year, 12 hours storm, average 15.3 mm/h, Zone OF43 2.439 7.665 0.125 0.15 29.06 1.21 AR&R 100 year, 12 hours storm, average 23.3 mm/h, Zone OF44 0.554 0.554 0.656 0.069 0.06 1.7.74 0.81 (AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF46 0.173 0.173 7.685 0.043 0.03 12.53 0.59 (AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF43 2.439 2.439 7.665 0.125 0.15 29.06 1.21 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF44 0.554 0.554 7.665 0.069 0.06 17.74 0.81 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF46 0.173 0.173 7.665 0.043 0.03 12.53 0.59 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF44 0.554 0.554 7.665 0.069 0.08 17.74 0.81 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone OF46 0.173 0.173 7.665 0.043 0.03 12.53 0.59 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF46 0.173 0.173 7.665 0.043 0.03 12.53 0.59 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
0.688 0.088 7.565 0.034 0.02 10.74 0.47 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF60 1.128 1.128 7.665 0.091 0.09 22.23 0.99 AR8R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
DF61 0.128 0.126 7.685 0.038 0.02 11.63 0.53 AR8R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF64 2.734 2.734 7.665 0.132 0.16 30.31 1.24 AR&R 100 year, 9 hours storm, average 18.2 mm/h, Zone	
StageDischarge_A 1.951 1.951 7.665 0.115 0.13 26.9 1.14 AR&R 100 year, 12 hours storm, everage 15.3 mnv/h, Zone	
StageDischarge_D 6.735 6.735 7.665 0.19 0.3 41.99 1.56 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF 102 7.507 7.507 7.665 0.198 0.32 43.6 1.61 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
OF101 2.335 2.335 7.665 0.123 0.15 28.7 1.19 AR&R 100 year, 6 hours slown, everage 23.3 mm/h, Zone	1
OF131 0.431 0.431 7.665 0.062 0.05 16.3 0.76 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
07101 0.395 0.395 7,665 0.06 0.04 15.94 0.74 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
0/10/ 0.431 0.431 7.655 0.062 0.05 16.3 0.76 AR&R 100 year, 6 hours storm, average 23.3 mm/h, Zone	
07405 0.377 0.377 7.665 0.059 0.04 15.76 0.72 AR&R 100 year, 6 haurs storm, average 23.3 mm/h, Zone	
0F805 0.377 0.377 7.685 0.059 0.04 15.76 0.74 AR&R 10 year, 6 hours storm, average 23.3 mmh, Zone	
	1
	1
0F487 0.377 0.377 7.665 0.059 0.04 15.76 0.72 AR&R 100 year, 8 hours storm, average 23.3 mm/h, Zone	1
	1
	1
DETENTION BASIN DETAILS	1
Name Max Wi, MaxVot Max Q Max Q Max Q	1
Total Low Level High Level	1
DeiBEx 14.77 14733.9 2.537 0 2.537	1
DetAEx 14.1 3385.6 4.585 0 4.585	1
DetB_Prop 15.91 17055.5 1.847 0 1.847	1

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DelA_Prop	15.91	26975.3	1.951	0	1.951				1	1	
DetC1	15.58	264.1	0.631	0.631	0	The second se	antenne datmia:		1		
DetD_Prop	15.5	8112.2	6.735	0	6.735				1		
DetC2	15.57	258	0.598	0.598	0			1	1	1	1
DetC3	15.57	257.8	0,597	0.597	0			-	-		
DetC4	15.58	282.5	0.623	0.623	0			1	1	1	1
DelC5	15.57	253.4	0.572	0.572	0		_		1	1	1
DetC6	15.58	268		0.641	0	· · · · · · · · · · · · · · · · · · ·		-	+	+	
	10.00		0.011	0.041					-	-	-
CONTINUETY CH	HECK for APEP 1	AD Least & hou	irs storm, average	22.3 000 7	1 666			-	+		
Node		Outflow			000 1	-				-	1
1006	(cu.m)		Storage Chan Dif	narence							
14		(cu.m)	(cu.m) 55					-		-	-
N4	18363.92	18363.94	0	0				-	-	-	
N5	934.22	934.22	0	0							
N8	3145.34	3145.34	0	0							1
DetBEx	27171.37	17435.32		0				1		1	
OutBEx	16358.32	18358.32	0	0				11.		1	-
DetAEx	30999.18	30999.08		0				1		L	1
N40	30999.08	30999.08		0				1	-	1	1
OutAEx	30999.08	30999.08	0	0			1.1	(II) — — —	1	1	1
OutCEx	53292.52	53292.52	0	0				11.	1		1
N57	0	0	0	0	-		- it H			1	1
DetB_Prop	23368.79	7704.15	15666.21	0		the second se	- mineral mineral and	1		1	
N62	18706.2	18706.2	0	0	and		1		1	1	1
N63	4245.87	4245.87	0	o				1	1	1	1
N64	934.22	934.22	Ğ	o			- 1		1		1
N65	478.68	478.68	c	0		**************************************		1	+	+	1
169	9113.47	9113.47	ő	0						1	
OutB_Prop	9110.02	9110.02	0	0				-			
N75	34419.8	34419.8	0	0				-	-	-	
N76	4866.35			0						4	1
		4866.35	0	+					-	1	1
N77	7329.11	7329.11	0	0					L		1
N78	683.11	683,11	0	0							
N79	30880.07	30880.13	0	Q	-					1	
OutA_Prop	30866.4	30866.4	0	0			- 14 I				
DetA_Prop	42589.45	22881.63	19714.63	0				4	-		
DetC1	4944.05	4943.38	0.69	0						19	
DetD_Prop	52711,73	51825.04	885.07	0			·· · · · · · · · · · · · · · · ·	1.1			
DetC2	4687.28	4686.58	0.69	0					-	1	
DetC3	4678.94	4678.26	0.69	0							
DetC4	4876.12	4875.35	0.69	0				1	1		1
DetC5	4488.04	4485.33	0.69	0							1
DetC6	5019.05	5018.32	0.7	0	-	1		1	II		1
N92	57332.42	57332.39	0	0				1	1	1	1
OutC_Prop	67328.88	57328.88	0	0						1	1
N95	17910.6	17910.6	0	a					1	1	1
N96	3145.34	3145.34	0	C				1	1	1	1
N97	2616.88	2616.88	0	0					-	1	1
N169	3303,44	3303.44	0	ä				1	1	1	1
1177	2893.97	2893.97	0	0				1	-	1	1
V224	2968.94	2968.94	0	C		1	-		+	+	
V224	417.05			G					+	1	
		417.05	0					1	-	1	
HW2	53292.54	53292.52	0	0				1		1	
N50	53292.52	53292.52	0	0				1	1		
N294	2893.97	2893.97	0	0	-			1		1	1
	** 1 T			1			1	1	<u> </u>	1	1
	rebank.dm run al			T						1	1
The maximum fic	w exceeded the s	afe value in th	e following overflo	w roules: OF3	0			T	I.	1	1
				C.		inconstration in the		1	+		+



		ARI 2 Yr - Peak Flow Results Ouration (min) (A - Existing (A - Proposed (Basin A Outlet (A - WL(mAHD)									
Duration (min)	A - Existing	A - Proposed	Basin A Outlet	A - WL(mAHD)							
5	0.882	0.443	0.058	14.23							
10	1.07	0.867	0.086	14.35							
15	1.2	1.11	0.299	14.43							
20	1.47	1.34	0.432	14.49							
25	1.92	1.57	0.466	14.5							
30	1.92	1.44	0.492	14.5							
45	1.95	1.31	0.548	14.6							
60	2.36	1.56	0.582	14.7							
90	2.42	1.64	0.613	14.7							
120	2.32	1.72	0.634	14.8							
180	1.36	1.27	0.651	14.84							
270	1.37	1.2	0.656	14.8							
360	1.2	1.09	0.67	14.8							
540	1.28	1.13	0.712	14.9							
720	1.2	1.16	0.699	14.94							
1080	0.99	0.905	0.677	14.85							
1440	1.02	0.94	0.693	14.93							
Peak	2.42	1.72	0.712	14.90							

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	ARI 2 Yr - Peak Flow Results							
Duration (min)	8 - Existing	8 - Proposed	Basin B Outlet	8-141(=440)				
5	0.169	0.044	0.037	14.15				
10	0.241	0.133	0.057	14.24				
15	0.31	0.207	0.07	14.5				
20	0.344	0.236	0.081	14.3				
25	0.365	0.258	0.089	14.4				
30	0.35	0.241	0.097	14.43				
45	0.325	0.212	0.113	14.52				
60	0.374	0.27	0.12	14.5				
90	0.395	0.394	0.132	14.60				
120	0.4	0.3	0.14	14.7.				
180	0.319	0.21	0.15	14.1				
270	0.311	0.226	0.155	14.8				
360	0.303	0.205	0.16	14.93				
540	0.32	0.24	0.17	15.03				
720	0.318	0.246	0.18	15.1				
1080	0.282	0.193	0.18	15.1				
1440	0.29	0.204	0.18	15.12				
Peak	0.4	0.394	0.18	15.12				

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	ARI 2 Y	r - Peak Flo	w Results	
Denation (min)	C-Existing	C - Preposed	Basin D Dutlet	0 · WL(mAHD)
5	2.38	1.12	0.963	14.47
10	3.33	2.12	1.8	14.72
15	3.79	2.53	2.2	14.89
20	4.43	2.86	2.44	15.01
25	4.81	3.02	2.56	15.07
30	4.73	3	2.59	15.09
45	5.01	3.12	2.71	15.16
60	5.2	3.28	2.83	15.23
90	5.74	3.43	2.84	15.24
120	5.2	3.42	2.89	15.27
180	4.18	2.99	2.61	15.1
270	3.71	3.04	2.68	15.15
360	3.11	2.72	2.42	19
540	3.22	2.48	2.2	14.89
720	3.21	2.58	2.27	14.92
1080	2.07	2.04	1.83	14.73
1440	1.97	1.99	1.79	14.71
Peak	5.74	3.43	2.89	15.27

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	ARI 5 Y	r - Peak Flo	w Results	
Ouration (min)	A - Existing	A - Proposed	Sasin A Outlet	A-WIL(MAND)
5	1.01	0.72	0.074	14.29
10	1.29	1.3	0.298	14.4
15	2.27	1.87	0.46	14.53
20	3.07	2.15	0.512	14.6
25	3.39	2.2	0.549	14.6
30	3.35	2.08	0.577	14.7
45	3.28	1.94	0.637	14.8
60	3.99	2.02	0.674	14.8
90	4.05	2.13	0.711	14.9
120	4.16	2.22	0.735	15.0
180	2.92	1.67	0.761	15.0
270	2.76	1.57	0.768	15.0
360	2.2	1.39	0.788	15.13
540	2.1	1.4	0.831	15.2
720	2.22	1.43	0.824	15.2
1080	1.25	1.11	0.808	15.11
1440	1.33	1.1	0.809	15.1
Peak	4.16	2.22	0.831	15.24

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ARI 5 Yr - Peak Flow Results								
Duration (min)	8 - Existing	8 - Proposed	Basin B Outlet	3-WL(20440)				
5	0.199	0.104	0.048	14.19				
10	0.343	0.239	0.071	14.3				
15	0.412	0.313	0.088	14.39				
20	0.453	0.357	0.101	14.45				
25	0.477	0.371	0.111	14.53				
30	0.454	0.347	0.12	14.55				
45	0.419	0.317	0.132	14.60				
60	0.453	0.376	0.14	14.74				
90	0.481	0.409	0.15	14.8				
120	0.497	0.417	0.16	14.9				
180	0.385	0.307	0.17	15.04				
270	0.371	0.297	0.18	15.14				
360	0.355	0.28	0.188	15.24				
540	0.384	0.297	0.2	15.30				
720	0.381	0.308	0.21	15.47				
1080	0.36	0.242	0.21	15.53				
1440	0.357	0.253	0.211	15.55				
Peak	0.497	0.417	0.211	15.55				



ARI 5 Yr - Peak Flow Results								
Den articen (antini)	C - Existing	C - Proposed	Basin & Outlet	0 - 1971 (= AHO)				
5	3.26	1.79	1.46	14.6				
10	4.48	2.71	2.26	14.92				
15	5.1	3.14	2.68	15.14				
20	5.9	3.51	2.88	15.26				
25	6.41	3.7	2.97	15.32				
30	6.35	3.58	3	15.34				
45	6.68	3.69	3.11	15.42				
60	6.96	5.12	4.52	15.47				
90	7.63	5.64	4.87	15.47				
120	6.98	6.28	5.56	15.48				
180	5.75	3.62	3.03	15.36				
270	5.28	3.04	2.68	15.15				
360	4.51	3.32	2.87	15.20				
540	4.22	3.02	2.71	15.16				
720	4.24	3.17	2.76	15.19				
1080	2.8	2.57	2.29	14.93				
1440	2.68	2.53	2.27	14.92				
Peak	7.63	6.28	5.56	15.48				

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	ARI 10 Yr - Peak Flow Results							
Duration (min)	A - Enisting	A - Proposed	Basin A Clothet	A-101(=410)				
5	1.08	0.887	0.81	14.33				
10	1.9	1.57	0.421	14.48				
15	3.1	2.18	0.499	14.58				
20	3.82	2.44	0.552	14.67				
25	4.32	2.53	0.59	14.73				
30	4.25	2.4	0.619	14.7				
45	4.09	2.2	0.682	14.				
60	4.9	2.28	0.721	14.9				
90	4.95	2.4	0.762	15.07				
120	5.16	2.5	0.788	15.1				
180	3.53	1.88	0.816	15.3				
270	3.37	1.77	0.828	15.23				
360	2.83	1.54	0.845	15.2				
540	2.52	1.55	0.892	15.3				
720	2.83	1.59	0.895	15.4				
1080	1.81	1.24	0.879	15.3				
1440	1.8	1.28	0.87	15.3				
Peak	5.16	2.53	0.895	15.4				

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	ARI 10 \	r - Peak Fl	ow Results	
Duration (min)	8 - Existing	6 - Proposed	Basin & Outlet	8 · 後礼(宗新治)
5	0.241	0.15	0.054	14.22
10	0.403	0.302	0.079	14.34
15	0.464	0.372	0.097	14.4
20	0.502	0.414	0.112	14.5
25	0.533	0.432	0.12	14.5
30	0.507	0.405	0.124	14.6
45	0.462	0.37	0,14	14.7
60	0.494	0.437	0.15	14.8
90	0.528	0.468	0.163	14.9
120	0.545	0.484	0.171	15.0
180	0.42	0.36	0.18	15.1
270	0.406	0.341	0.192	15.3
360	0.4	0.315	0.202	15.4
540	0.448	0.335	0.211	15.5
720	0.543	0.341	0.221	15.
1080	0.42	0.26	0.23	15.7
1440	0.41	0.281	0.23	15.8
Peak	0.545	0.484	0.23	15.8

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	ARI 10 Y	r - Peak Fl	ow Results		
Deretion (min) - (C - Existing	C - Preposed	Basin D'Outliet	D-WL(makin)	
5	3.79	2.11	1.7	14.68	
10	5.18	3.03	2.5	15.04	
15	5.83	3.47	2.88	15.26	
20	6.74	3.81	3.07	15.38	
25	7.29	4.01	3.16	15.45	
30	7.27	4.7	4.08	15.46	
45	7.64	5.98	5.27	15.48	
60	7.95	6.69	5.94	15.49	
90	8.73	7.88	6.82	15.53	
120	8.01	7.71	6.82	15.53	
180	6.62	5.38	4.73	15.47	
270	6.16	5.35	4.78	15.47	
360	5.3	3.57	3.1	15.4	
540	4.81	3.29	2.94	15.3	
720	4.87	3,44	2.97	15.32	
1080	3.22	2.86	2.54	15.06	
1440	3.09	2.84	2.53	15.00	
Peak	8.73	7.88	6.82	15.53	

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ARI 20 Yr - Peak Flow Results								
Duration (min)	A - Existing	A . Francist	Saain A Outlet	A - 140(-410)				
5	1.17	1.09	0.088	14.37				
10	2.65	2.09	0.465	14.54				
15	4.02	2.51	0.545	14.6				
20	5.06	2.81	0.601	14.7				
25	5.43	2.93	0.641	14.83				
30	5.33	2.78	0.671	14.8				
45	5,16	2.54	0.737	15.02				
60	5.83	2.62	0.779	15.1				
90	5.83	2.76	0.823	15.2				
120	6.24	2.86	0.851	15.2				
180	4.29	2.03	0.901	15.4				
270	4.62	2.16	0.885	15.3				
360	3.46	1.75	0.922	15.4				
540	3.15	1.75	0.97	15.6				
720	3.29	1.78	0.973	15.63				
1080	2.22	1.39	0.964	1.3				
1440	2.16	1.43	0.945	15.5				
Peak	6.24	2.93	0.973	15.6				

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ARI 20 Yr - Peak Flow Results									
Duration (min)	E - Existing	8 - Proposed	Basin & Outlet	8 - WL(maHD)					
5	0.294	0.205	0.06	14.25					
10	0.475	0.378	0.089	14.39					
15	0.524	0.44	0.11	14.5					
20	0.567	0.49	0.12	14.59					
25	0.598	0.511	0.131	14.65					
30	0.569	0.48	0.14	14.7:					
45	0.52	0.44	0.151	14.8					
60	0.551	0.513	0.162	14.96					
90	0.589	0.55	0.18	15.11					
120	0.61	0.565	0.184	15.22					
180	0.652	0.399	0.21	15.52					
270	0.621	0.42	0.2	15.37					
360	0.714	0.359	0.22	15.65					
540	1.03	0.378	0.23	15.83					
720	1.11	0.791	0.744	15.87					
1080	0.91	0.855	0.805	15.87					
1440	0.808	0.629	0.598	15.86					
Peak	1.11	0.855	0.805	15.87					

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	ARI 20 Y	r - Peak Fl	ow Results	
Durztion (min)	C-Existing	C - Proposed	Basin & Outlet	0 - WL(mAHD)
5	4.45	2.47	1.96	14.78
10	6.03	3.4	2.78	15.2
15	6.78	3.84	3.1	15.4
20	7.86	6.77	5.93	15.49
25	8.49	7,8	6.75	15.51
30	8.51	7.05	6.14	15.49
45	8.9	7.41	6.57	15.5
60	9.3	8	6.93	15.57
90	10.2	8.35	7.15	15.65
120	9.38	8.16	7.15	15.65
180	7.17	7.65	6.78	15.52
270	7.83	6.92	6.19	15.49
360	6.29	5.92	5.3	15.48
540	5.61	4.08	3.68	15.46
720	5.62	5.01	4.49	15.47
1080	3.77	3.19	2.81	15.22
1440	3.63	3.18	2.82	15.23
Peak	10.2	8.35	7.15	15.65



	ARI SU I	I - Feak Fi	ow Results		
Duration (min)	A - Existing	A - Proposed	Sasin A Outlet	A-100	
5	1.43	1.37	0.235	14.42	
10	3.72	2.6	0.519	14.61	
15	5.3	2.91	0.601	14.75	
20	6.27	3.19	0.66	14.86	
25	6.52	3.16	0.701	14.94	
30	6.3	3.04	0.732	15.01	
45	6.14	2.85	0.803	15.17	
60	6.83	2.92	0.847	15.28	
90	6.73	3.04	0.896	15.4	
120	7.2	3.16	0.93	15.49	
180	5.32	2.36	0.962	15.55	
270	4.96	2.21	0.987	15.66	
360	4.02	1.9	1.01	15.72	
540	3.51	1.91	1.53	15.7	
720	3.68	1.98	1.65	15.79	
1080	2.46	1.9	1.58	15.7	
1440	2.41	1.56	1.01	15.7	
Peak	7.2	3.19	1.65	15.79	

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ARI 50 Yr - Peak Flow Results								
Curvetion (min)	8 - Existing	8 - Proposed	Basin B Outlet	8 - WI - 140)				
5	0.358	0.279	0.069	14.3				
10	0.565	0.474	0.103	14.46				
15	0.588	0.514	0.12	14.58				
20	0.628	0.568	0.137	14.68				
25	0.632	0.558	0.143	14.76				
30	0.609	0.533	0.15	14.83				
45	0.572	0.507	0.17	15				
60	0.957	0.581	0.18	15.12				
90	0.817	0.613	0.19	15.3				
120	1.02	0.64	0.207	15.43				
180	1.19	0.47	0.22	15.62				
270	1.18	0.437	0.23	15.81				
360	1.09	0.753	0.711	15.80				
540	1.94	0.958	0.898	15.87				
720	1.75	1.89	1.75	15.9				
1080	1.16	0.971	0.911	15.87				
1440	1.38	1.21	1.13	15.88				
Peak	1.94	1.89	1.75	15.9				

FireA0032205,Reports) Starmuster Reports) Appendix BPeak Flow Comparisons



ARI 50 Yr - Peak Flow Results								
Duration (min)	C - Existing	C - Proposed	Basin D Outlet	D-WL(=AHD)				
5	5.33	2.9	2.26	14.92				
10	7.26	3.88	3.04	15.37				
15	8.08	7.54	6.72	15.5				
20	9.11	8.02	6.95	15.58				
25	9.69	8.14	6.98	15.55				
30	9.98	8	6.89	15.50				
45	10.3	7.97	6.98	15.55				
60	10.6	8.41	7.26	15.69				
90	11.4	8.76	7.45	15.70				
120	10,6	8,61	7.48	15.7				
180	8.74	7.91	6.96	15.5				
270	7.93	7.62	6.81	15.53				
360	6.9	6.77	6.09	15.45				
540	6.14	5.42	4.84	15.47				
720	6,19	6.07	5.46	15.4				
1080	4.14	3.39	2.98	15.3				
1440	4.02	3.41	3.02	15.3				
Peak	11.4	8.76	7.48	15.77				

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	AKI 100	TT - Peak P	low Results		
Darabien (min)	A-Existing	A - Proposed	Basin A Outlet	A-MillionAHO)	
5	2.06	1.69	0.404	14.46	
10	4.63	2.94	0.555	14.67	
15	6.19	3.24	0.641	14.82	
20	7.33	3.54	0.7	14.94	
25	7.43	3.49	0.74	15.03	
30	7.19	3.37	0.774	15.1	
45	7.07	3.16	0.848	15.28	
60	7.98	3.23	0.894	15.4	
90	7.78	3.36	0.947	15.54	
120	8.33	3.48	0.982	15.64	
180	6	2.61	1.04	15.75	
270	5.56	2.43	1.46	15.78	
360	4.58	2.08	1.62	15.78	
540	4.07	2.73	1.94	15.88	
720	4.15	2.72	1.95	15.91	
1080	2.83	2.22	1.85	15.8	
1440	2.75	2,39	1.91	15.84	
Peak	8.33	3.54	1.95	15.91	

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	ARI 100	Yr - Peak Fl	low Results		
Ocration (min)	8 - Existing	8 - Proposed	Barin B Cutlet	3 - WIL(=AHD)	
5	0.406	0.335	0.076	14.33	
10	0.628	0.547	0.113	14.51	
15	0.649	0.584	0.13	14.65	
20	0.687	0.641	0.142	14.76	
25	0.684	0.625	0.15	14.84	
30	0.661	0.6	0.16	14.92	
45	0.624	0.574	0.18	15.11	
60	0.882	0.653	0.189	15.24	
90	1.32	0.682	0.209	15.44	
120	1.57	0.713	0.219	15.59	
180	1.63	0.522	0.23	15.8	
270	1.6	0.923	0.868	15.87	
360	1.7	0.969	0.908	15.87	
540	2.63	2.01	1.84	15.91	
720	2.03	2.01	1.85	15.91	
1080	80 1.62	1.42	1.32	15.88	
1440	1.78	1.69	1.56	15.89	
Peak	2.63	2.01	1.85	15.91	

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ARI 100 Yr - Peak Flow Results									
Duration (min)	C - Existing	C - Proposed	Basin O Outlet	D - WU(mAHD)					
5	5.98	3.18	2.47	15.02					
10	8.12	5.08	4.33	15.47					
15	9.09	7.97	6.93	15.57					
20	10.2	8.4	7.22	15.67					
25	10.8	8.52	7.24	15.68					
30	11.1	8.37	7.16	15.65					
45	11.5	8.39	7.3	15.7					
60	11.9	8.83	7.6	15.81					
90	12.7	9.2	7.74	15.87					
120	11.9	9.07	7.82	15.9					
180	9.84	8.26	7.22	15.67					
270	8.84	7.91	7.03	15.6					
360	7.7	7.51	6.74	15.5					
540	6.84	6.59	5.91	15.49					
720	6.89	6.81	6.12	15.49					
1080	4.68	4.47	4.2	15.46					
1440	4.55	4.58	4.12	15.46					
Peak	12.7	9.2	7.82	15.9					

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Appendix B

HEC-RAS model input and output data – existing and proposed conditions

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OUTLET A EXISTING CASE -- HEC-RAS MODEL FILES



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Reach	Plan: Plan 01 River Sta	River: 1 Read	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chi
	FA 70	05.4	(m3/s)	(m)	(m) (a ao	(m)	(m)	(m/m)	(m/s)	(m2)	(m) 3 66	1.00
Atelho DutletA	51.76 51.76	PF 1 PF 2	0.10	13.22	13.30 13.34	13.30	13.34 13.39	0.022426	0.78	0.13	2.06	1.00
DutletA	51.76	PF 2 PF 3	0.20	13.22	13.34	13.37	13.43	0.018838	1.06	0.21	2.51	1.01
Atelho	51.76	PF 4	0.40	13.22	13.40	13.40	13.47	0.018102	1.14	0.35	2.68	1.01
OutletA	51.76	PF 5	0.60	13.22	13.44	10.10	13.50	0.011802	1.05	0.48	2.97	0.84
OutletA	51.76	PF 6	0.60	13.22	13.50		13.54	0.006543	0.90	0.67	3.37	0.65
OutletA	51,76	PF 7	0.70	13.22	13.57		13.60	0.003953	0.79	0.89	3.79	0.52
OutletA	51.76	PF 8	0.80	13.22	13.63		13.66	0.002550	0.69	1.18	4.34	0.42
OutletA	51.76	PF 9	0.90	13.22	13.70		13.72	0.001659	0.60	1,54	7.43	0.3
OutletA	51.76	PF 10	1.00	13.22	13.78		13.80	0.001009	0.51	2.41	16.20	0.28
OutletA	51.76	PF 11	1,10	13.22	13.87		13.87	0.000528	0.39	4,21	23.92	0.20
OutletA	51.76	PF 12	1.20	13.22	13.93		13.94	0.000305	0.33	5.93	30.24	0.16
OutletA	51,76	PF 13	1.30	13.22	13.96		13.96	0.000274	0.33	6.75	33.65	0.16
OutletA	61.76	PF 14	1,40	13.22	13.97		13.98	0.000271	0.33	7.32	36.46 37.36	0.16 0.16
OutletA	51.76	PF 15	1.50	13.22	13,98 14.01		13.99	0.000284	0.34	7.65	40.00	0.10
OutletA OutletA	51.76 51.76	PF 16 PF 17	2.00	13.22	14.01	-	14.01	0.000401	0.42	8.60	40.00	0.19
OutletA	51.76	PF 18	2.50	13.22	14.03		14.04	0.000485	0.48	9.68	40.00	0.21
OutletA	51.76	PF 19	3.00	13.22	14.05		14.06	0.000626	0.55	10.16	40.00	0.24
OutletA	51.76	PF 20	3.50	13.22	14.07	in the second	14.09	0.000678	0.59	11.21	40.00	0.25
OutletA	51,76	PF 21	4.00	13:22	14.09		14.10	0.000786	0.65	11.77	40.00	0.27
OutletA	51.76	PF 22	4.50	13.22	14.10		14.12	0.000886	0.70	12.34	40.00	0.29
OutletA	51.76	PF 23	5.00	13.22	14.11		14.13	0.001010	0.76	12.74	40.00	0.31
DutietA	51.76	PF 24	5.50	13.22	14.13		14.15	0.001097	0.80	13.29	40.00	0.32
OutletA	51,76	PF 25	6.00	13.22	14.14		14.18	0.001158	0.84	13.92	40.00	0.33
OutletA	51,78	PF 26	6.50	13.22	14.15		14.17	0.001285	0.89	14.22	40.00	0.35
OutletA	51.76	PF 27	7.00	13.22	14.16		14.19	0.001334	0.92	14.84	40.00	0.36
AteltuC	51.76	PF 28	7.50	13.22	14.17		14.20	0.001443	0.96	15.17	40.00	0.37
OutletA	51.76	PF 29	8.00	13.22	14.18 14.19	_	14.21	0.001574	1.01	15.41 15.90	40.00	0.39
OutletA OutletA	51.76 51.78	PF 30 PF 31	8,50	13.22	14.19	-	14.23	0.001635	1.04	18.90	40.00	0.40
OutletA	51.76	PF 32	9.50	13.22	14.22		14.25	0.001683	1.09	17.06	40.00	0.41
OutletA	51.76	PF 33	10.00	13.22	14.22	-	14.26	0.001859	1.14	17.08	40.00	0.43
Called		1.00	10.00	10.22			1.1123			11.000	14.02	
OutletA	46.84	PF 1	0.10	13.05	13.26	13.15	13.27	0.000686	0.25	0.40	- 2.54	0.20
OutletA	46.84	PF 2	0.20	13.05	13.32	13.18	13.32	0.001123	0.37	0.54	2.75	0.26
OutletA	46.84	PF 3	0.30	13.05	13.36	13.21	13.37	0.001345	0.44	0.67	2.93	0.30
OutletA	46.84	PF 4	0.40	13.05	13.41	13.24	13.42	0.001428	0,50	0.81	3.10	0.31
OutletA	46.84	PF 5	0.50	13.05	13.45	13.26	13.47	0.001398	0.53	0.95	3.28	0.31
OutletA	46,84	PF 6	0.60	13.05	13.51	13.28	13.52	0.001211	0.53	1.14	3.50	0.30
OutletA	46.84	PF 7	0.70	13.05	13.57	13.31	13.58	0.001010	0.52	1.35	3.73	0.27
OutletA	46.84	PF 8	0.80	13.05	13.63	13.32	13.65	0.000817	0.50	1.61	3.99	0.25
OutletA	46.84	PF 9	0.90	13.05	13.70	13.34	13.71	0.000623	0.47	1.93	5.11 12.57	0.22
OutletA	46.84	PF 10	1.00	13,05	13.78	13.38	13.79 13.87	0.000458	0.45	2.47	26.09	0.20
OutletA OutletA	46.84	PF 11 PF 12	1.10	13.05	13.86	13.38	13.94	0.000294	0.35	6.18	27.58	0.13
OutletA	46.84	PF 13	1.30	13.05	13.96	13.41	13.96	0.000194	0.35	6.90	28.60	0.13
OutletA	46.84	PF 14	1.40	13.05	13.97	13.42	13.98	0.000201	0.36	7.37	30.42	0,14
OutletA	46.84	PF 15	1.60	13.05	13.98	13.44	13.99	0.000217	0.38	7.65	32.16	0.14
OutletA	46.84	PF 16	2.00	13.05	14.00	13.50	14.01	0.000327	0.47	8.41	35.32	0.17
OutletA	46.84	PF 17	2.00	13.05	14.00	13.50	14.01	0.000327	0.47	8.41	35.32	0.17
OutletA	46.84	PF 18	2.50	13.05	14.03	13.56	14.04	0.000424	0.55	9,36	38.88	0.20
OutletA	46.84	PF 19	3.00	13.05	14.04	13.61	14.05	0.000568	0.64	9.73	39.82	0.23
OutletA	46.84	PF 20	3.50	13.05	14.06	13.68	14.08	0.000637	0.69	10.73		0.25
AtelluO	46.84	PF 21	4.00	13.05	14.08	13.71	14.10	0.000769	0.76		40.00	0.27
OutletA	46.84	PF 22	4.50	13.05	14.09	13.75	14.11	0.000878	0,83	11.70		0.29
OutletA	46.84	PF 23	5.00	13.05	14.09	13.88	14.12	0.001027	0.90	11.99	40.00	0.31
OutletA	46.84 46.84	PF 24	5.50 6.00	13.05	14.11 14.12	13.90 13.92	14.14	0.001140	1.00	13.05		0.33
OutletA OutletA		PF 25 PF 26	6.50	13.05	14.12	13.94	14.16	0.001223	1.00	13.23		0.37
DutletA	46.84 46.84	PF 20 PF 27	7.00	13.05	14.13	13.95	14.18	0.001466	1.11	13.79		0.38
OutletA	46,84	PF 28	7.50	13.05	14.15	13.96	14.19	0.001400	1,18	14.01		0.40
OutletA	46.84	PF 29	8.00	13.05	14.15	13.99	14.20	0.001818	1.25	14.10		0.42
DutletA	46.84	PF 30	8.50	13.05	14.16	14.02	14.21	0.001915	1.29	14.51		0.43
OutletA	46.84	PF 31	9,00	13.05	14.16	14.03	14.22	0,002150	1.37	14.50	40.00	0.46
DutletA	48,84	PF 32	9.50	13.05	14.19	14.06	14.24	0.001992	1.34	15.64		
OutletA	46.84	PF 33	10.00	13.05	14.18	14.07	14.24	0.002290	1.43	15.41	40.00	0.48
				1								
DutletA	40		Culvert						+			
D. 41.41	00	054		10.10	16.00	-	10.00	0.001387	0.28	0.36	0.10	0.27
DutletA	32	PF 1 PF 2	0.10	13.10	13 26 13.30		13.26 13.31	0.001387	0.28	0.36		
OutletA	32	PF 2 PF 3	0.20	13.10	13.30		13.31	0.001872	0.38			
DutietA	32	PF 3	0,30	13.10	13.34		13.35	0.002553	0.40			
DutietA	32	PF 5	0.40	13.10	13.38		13.40	0.002836		0.86		0.43
DutletA	32	PF 6	0.60	13.10	13.40		13.42	0.003067	0.63	0.95		
DutietA	32	PF 7	0.70	13.10	13.42	1	13.45	0.003296	0.68			0.4
DutietA	32	PF 8	0.80	13.10	13.44		13.46	0.003497	0.72			0.49
DutletA	32	PF 9	0.90	13.10	13.45		13.48	0.003700		111/1.111-112/17/17/2010/11/10/10/11/10/10/11		0.50
DutletA	32	PF 10	1.00	13.10	13.47	0	13.50	0.003880				
DutletA	32	PF 11	1.10	13.10	13.48		13.51	0.004061	0.83			
DutletA	32	PF 12	1.20	13.10	13.49		13.53	0.004225		1.38		
JutietA	32	PF 13	1.30	13.10	13.50	1	13.54	0.004388	0.90	1.45	5.48	0.56