

Global Variables

Region	FSR - England & Wales
Return Period (yrs)	100
M5-60 (mm)	18.800
Ratio R	0.400
Volumetric Runoff Coef	0.750
Profile Type	Summer
PIMP (%)	100
Areal Reduction Factor	1.000
Storm Duration (mins)	30
Hot Start (mins)	0
Hot Start Level (mm)	0
Manhole Headloss Coefficient	0.500
MADD Factor * 10m³/ha Storage	2.000
Foul Sewage/Hectare (l/s)	0.00
Additional Flow - % of Total Flow	0
Inlet Coefficient	0.800
Number of Input Hydrographs	0
Number of Time/Area Diagrams	0
Number of Bifurcations	0
Number of Overflows	0
Number of Off-Line Controls	3
Number of On-Line Controls	4

Starting Storm file name

J:\11321\2002\Windes\Networks june 2010\compatibility\Phase 1.SWS

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
10.011	O/F 1	40.200	38.277	100	0

Peter Brett Associates LLP		Page 2
Caversham Bridge House	Green Park Village	
Waterman Place	Phase 1	
Reading RG1 8DN	Surface Water Network	
Date 01.07.2010	Designed By VH	
File Phase 1.SIM	Checked By	
Micro Drainage	Simulation W.11.4 net	

On-Line Controls (Non Return Valve)

US/PN	Volume (m ³)	Ctrl MH Name
10.010	0.148	23

On-Line Controls (Complex Control)

US/PN	Volume (m ³)	Ctrl MH Name	Invert (m)	Filename (* .ccf)	Headloss (m)	Flow (l/s)
10.008	3.920	21	38.458	complex control	0.1	2.3
					0.2	2.9
					0.3	2.9
					0.4	8.4
					0.5	22.4
					0.6	40.7
					0.7	52.1
					0.8	60.5
					0.9	67.9
					1.0	74.5
					1.2	86.2
					1.4	96.5
					1.6	105.8
15.002	0.899	21	38.458	complex control	1.8	114.3
					2.0	122.3
					0.1	2.3
					0.2	2.9
					0.3	2.9
					0.4	8.4
					0.5	22.4
					0.6	40.7
					0.7	52.1
					0.8	60.5
					0.9	67.9
					1.0	74.5
					1.2	86.2
17.000	0.899	21	38.458	complex control	1.4	96.5
					1.6	105.8
					1.8	114.3
					2.0	122.3
					0.1	2.3
					0.2	2.9
					0.3	2.9
					0.4	8.4
					0.5	22.4
					0.6	40.7
					0.7	52.1
					0.8	60.5
					0.9	67.9
					1.0	74.5
					1.2	86.2
					1.4	96.5
					1.6	105.8
					1.8	114.3
					2.0	122.3

Off-line Weir Controls

DS/PN	Loop PN	MH Loss	Height above DS PN (m)	Width (m)	Discharge Coefficient
10.009	17.000	0.500	0.150	1.500	0.544

Off-line Flap Controls

DS/PN	Loop PN	MH Loss	Height above DS PN (m)	Diameter (m)	Coef of Contraction
10.009	10.009	0.500	0.000	0.100	0.600

Infiltration Systems

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier.

DS/PN	MH Loss	Height above DS PN (m)	Filename	Type	Include Volume
17.000	0.500	0.000	phase 1a.SRC	Cellular Storage	Yes (capped) (lvl 39.265m)

Cellular Storage Details

Infil Coef - Base (m/hr) 0.000000 Porosity 0.95
 Infil Coef - Sides (m/hr) 0.000000 Invert Level (m) 0.000
 Safety Factor 2.0 Ground Level (m) 0.800

Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)
0.00	540.0	540.0	0.70	540.0	619.8	1.40	0.0	631.2	2.10	0.0	631.2
0.10	540.0	551.4	0.80	540.0	631.2	1.50	0.0	631.2	2.20	0.0	631.2
0.20	540.0	562.8	0.90	0.0	631.2	1.60	0.0	631.2	2.30	0.0	631.2
0.30	540.0	574.2	1.00	0.0	631.2	1.70	0.0	631.2	2.40	0.0	631.2
0.40	540.0	585.6	1.10	0.0	631.2	1.80	0.0	631.2	2.50	0.0	631.2
0.50	540.0	597.0	1.20	0.0	631.2	1.90	0.0	631.2			
0.60	540.0	608.4	1.30	0.0	631.2	2.00	0.0	631.2			

Orifice Outflow Control

Diameter (m) 0.800 Discharge Coefficient 0.600 Invert Level (m) 0.000

Weir / Flume Overflow Control

Discharge Coef 0.544 Width (m) 1.200 Crest Level (m) 0.150

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Caversham Bridge House Waterman Place Reading RG1 8DN	Green Park Village Phase 1 Surface Water Network	
Date 01.07.2010 File Phase 1.SIM	Designed By VH Checked By	
Micro Drainage	Simulation W.11.4 net	

Network Details

* - Indicates pipe has been modified outside of WinDes's Storm/Foul & Schedules

PN	Length (m)	Fall (m)	Slope (1:x)	Area (ha)	T.E. (mins)	Rain Pro	k (mm)	Hyd Sect	Dia (mm)
10.000	30.00	0.126	238.1	0.062	4.00	1	0.600	o	300
10.001	22.00	0.092	239.1	0.045	0.00	1	0.600	o	300
10.002	42.00	0.176	238.6	0.043	0.00	1	0.600	o	300
11.000	29.00	0.122	237.7	0.031	4.00	1	0.600	o	300
11.001	27.00	0.113	238.9	0.034	0.00	1	0.600	o	300
10.003	9.00	0.023	391.3	0.019	0.00	1	0.600	o	450
12.000	32.00	0.192	166.7	0.067	4.00	1	0.600	o	225
10.004	52.00	0.135	385.2	0.048	0.00	1	0.600	o	450
10.005	37.00	0.096	385.4	0.046	0.00	1	0.600	o	450
10.006	32.00	0.083	385.5	0.041	0.00	1	0.600	o	450
13.000	25.00	0.150	166.7	0.031	4.00	1	0.600	o	225
14.000	12.00	0.072	166.7	0.039	4.00	1	0.600	o	225
13.001	25.00	0.105	238.1	0.055	0.00	1	0.600	o	300
10.007	30.00	0.078	384.6	0.057	0.00	1	0.600	o	450
10.008	26.00	0.068	382.3	0.081	0.00	1	0.600	o	450
15.000	35.00	0.147	238.1	0.036	4.00	1	0.600	o	300
16.000	11.00	0.046	239.1	0.100	4.00	1	0.600	o	300
15.001	25.00	0.065	384.6	0.047	0.00	1	0.600	o	450
15.002	7.00	0.018	388.9	0.065	0.00	1	0.600	o	450
17.000	7.00	0.007	1000.0	0.000	4.00	1	0.600	o	450

PN	USMH No.	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl No.	US/MH (mm)
10.000	1	40.700	39.486	0.914	40.580	39.360	0.920		1050
10.001	2	40.580	39.360	0.920	40.490	39.268	0.922		1050
10.002	3	40.490	39.268	0.922	40.350	39.092	0.958		1050
11.000	4	40.500	39.326	0.874	40.400	39.204	0.896		1050
11.001	5	40.400	39.204	0.896	40.350	39.091	0.959		1050
10.003	6	40.350	38.941	0.959	40.200	38.918	0.832		1350
12.000	7	40.500	39.335	0.940	40.200	39.143	0.832		1050
10.004	8	40.200	38.918	0.832	40.200	38.783	0.967		1350
10.005	9	40.200	38.783	0.967	40.200	38.687	1.063		1350
10.006	10	40.200	38.687	1.063	40.200	38.604	1.146		1350
13.000	11	40.250	39.084	0.941	40.200	38.934	1.041		1050
14.000	12	40.200	39.006	0.969	40.200	38.934	1.041		1050
13.001	13	40.200	38.859	1.041	40.200	38.754	1.146		1050
10.007	14	40.200	38.604	1.146	40.200	38.526	1.224		1350
10.008	15	40.200	38.526	1.224	40.200	38.458	1.292		1350
15.000	16	40.200	38.838	1.062	40.200	38.691	1.209		1050
16.000	17	40.200	38.737	1.163	40.200	38.691	1.209		1050
15.001	18	40.200	38.541	1.209	40.200	38.476	1.274		1350
15.002	19	40.200	38.476	1.274	40.200	38.458	1.292		1350
17.000	20	40.200	38.465	1.285	40.200	38.458	1.292		1350

Network Details

PN	Length (m)	Fall (m)	Slope (1:x)	Area (ha)	T.E. (mins)	Rain Pro	k (mm)	Hyd Sect	Dia (mm)
10.009	10.00	0.076	131.6	0.037	0.00	1	0.600	o	100
10.010	20.00	0.052	384.6	0.000	0.00	1	0.600	o	100
10.011	1.00	0.003	333.5	0.000	0.00	1	0.600	o	100

PN	USMH No.	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl No.	US/MH (mm)
10.009	21	40.200	38.458	1.642	40.200	38.382	1.718	12	1350
10.010	22	40.200	38.332	1.768	40.200	38.280	1.820		1200
10.011	23	40.200	38.280	1.820	40.200	38.277	1.823	3	1200

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300
DTS Status	ON
DVD Status	ON
Inertia Status	OFF
Analysis Time Step	2.5 second increment (extended)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
10.000	15 Summer	1	0%	1				
10.001	15 Winter	1	0%	1				
10.002	15 Winter	1	0%	1				
11.000	15 Summer	1	0%	1				
11.001	15 Winter	1	0%	1				
10.003	15 Winter	1	0%	1				
12.000	15 Summer	1	0%	1				
10.004	15 Winter	1	0%	1				
10.005	15 Winter	1	0%	1	100/15 Winter			
10.006	15 Winter	1	0%	1	100/15 Summer			
13.000	15 Summer	1	0%	1				
14.000	15 Summer	1	0%	1				
13.001	15 Winter	1	0%	1	100/15 Winter			
10.007	15 Winter	1	0%	1	100/15 Summer			
10.008	15 Winter	1	0%	1	30/360 Winter			
15.000	15 Summer	1	0%	1	100/360 Winter			
16.000	15 Summer	1	0%	1	100/240 Summer			
15.001	15 Winter	1	0%	1	100/120 Summer			
15.002	15 Winter	1	0%	1	30/240 Winter			
17.000	360 Winter	1	0%	1	30/120 Winter			0
10.009	15 Winter	1	0%	1	1/15 Summer		1/15 Summer	54
10.010	60 Summer	1	0%	1	30/60 Summer			
10.011	60 Summer	1	0%	1	30/60 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	10.000	39.558	-0.228	0.000	0.13	0.0	8.5	0 K
	10.001	39.454	-0.206	0.000	0.21	0.0	13.4	0 K
	10.002	39.374	-0.194	0.000	0.27	0.0	18.0	0 K
	11.000	39.376	-0.250	0.000	0.07	0.0	4.3	0 K
	11.001	39.274	-0.230	0.000	0.12	0.0	8.0	0 K
	10.003	39.108	-0.283	0.000	0.29	0.0	27.7	0 K
	12.000	39.411	-0.149	0.000	0.25	0.0	9.4	0 K
	10.004	39.079	-0.289	0.000	0.27	0.0	39.9	0 K
	10.005	38.959	-0.274	0.000	0.29	0.0	41.7	0 K
	10.006	38.883	-0.254	0.000	0.31	0.0	44.0	0 K
	13.000	39.135	-0.174	0.000	0.12	0.0	4.3	0 K
	14.000	39.066	-0.165	0.000	0.16	0.0	5.5	0 K
	13.001	38.960	-0.199	0.000	0.24	0.0	15.6	0 K
	10.007	38.824	-0.230	0.000	0.40	0.0	56.3	0 K
	10.008	38.758	-0.218	0.000	0.45	0.0	61.9	0 K
	15.000	38.893	-0.245	0.000	0.08	0.0	5.0	0 K
	16.000	38.837	-0.200	0.000	0.25	0.0	14.0	0 K
	15.001	38.718	-0.273	0.000	0.17	0.0	23.3	0 K
	15.002	38.700	-0.226	0.000	0.29	0.0	29.3	0 K
	17.000	38.677	-0.238	0.000	0.05	0.0	4.7	0 K
	10.009	38.695	0.137	0.000	0.60	56.7	3.0	SURCH'ED
	10.010	38.432	0.000	0.000	1.01	0.0	3.0	0 K
	10.011	38.345	-0.035	0.000	0.75	0.0	3.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300
DTS Status	ON
DVD Status	ON
Inertia Status	OFF
Analysis Time Step	2.5 second increment (extended)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
10.000	15 Summer	30	0%	1				
10.001	15 Summer	30	0%	1				
10.002	15 Winter	30	0%	1				
11.000	15 Summer	30	0%	1				
11.001	15 Summer	30	0%	1				
10.003	15 Winter	30	0%	1				
12.000	15 Summer	30	0%	1				
10.004	15 Winter	30	0%	1				
10.005	15 Winter	30	0%	1	100/15 Winter			
10.006	15 Winter	30	0%	1	100/15 Summer			
13.000	15 Summer	30	0%	1				
14.000	15 Summer	30	0%	1				
13.001	15 Winter	30	0%	1	100/15 Winter			
10.007	15 Winter	30	0%	1	100/15 Summer			
10.008	360 Winter	30	0%	1	30/360 Winter			
15.000	360 Winter	30	0%	1	100/360 Winter			
16.000	360 Winter	30	0%	1	100/240 Summer			
15.001	360 Winter	30	0%	1	100/120 Summer			
15.002	480 Winter	30	0%	1	30/240 Winter			
17.000	480 Winter	30	0%	1	30/120 Winter			0
10.009	360 Winter	30	0%	1	1/15 Summer		1/15 Summer	54
10.010	480 Winter	30	0%	1	30/60 Summer			
10.011	360 Winter	30	0%	1	30/60 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	10.000	39.603	-0.183	0.000	0.32	0.0	20.9	0 K
	10.001	39.523	-0.137	0.000	0.55	0.0	34.8	0 K
	10.002	39.461	-0.107	0.000	0.71	0.0	47.2	0 K
	11.000	39.407	-0.219	0.000	0.16	0.0	10.5	0 K
	11.001	39.325	-0.179	0.000	0.33	0.0	21.2	0 K
	10.003	39.238	-0.153	0.000	0.75	0.0	72.2	0 K
	12.000	39.462	-0.098	0.000	0.61	0.0	22.9	0 K
	10.004	39.203	-0.165	0.000	0.69	0.0	102.9	0 K
	10.005	39.135	-0.098	0.000	0.70	0.0	101.8	0 K
	10.006	39.085	-0.052	0.000	0.71	0.0	100.5	0 K
	13.000	39.166	-0.143	0.000	0.28	0.0	10.5	0 K
	14.000	39.103	-0.128	0.000	0.39	0.0	13.4	0 K
	13.001	39.040	-0.119	0.000	0.65	0.0	41.7	0 K
	10.007	39.019	-0.035	0.000	0.92	0.0	129.5	0 K
	10.008	38.984	0.008	0.000	0.20	0.0	27.7	SURCH'ED
	15.000	38.982	-0.156	0.000	0.02	0.0	1.6	0 K
	16.000	38.983	-0.054	0.000	0.08	0.0	4.4	0 K
	15.001	38.983	-0.008	0.000	0.06	0.0	7.7	0 K
	15.002	38.984	0.058	0.000	0.08	0.0	7.8	SURCH'ED
	17.000	38.978	0.063	0.000	0.12	0.0	12.4	SURCH'ED
	10.009	38.997	0.439	0.000	1.24	21.4	6.1	SURCH'ED
	10.010	38.618	0.186	0.000	1.97	0.0	5.8	SURCH'ED
	10.011	38.415	0.035	0.000	1.46	0.0	5.8	SURCH'ED

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300
DTS Status	ON
DVD Status	ON
Inertia Status	OFF
Analysis Time Step	2.5 second increment (extended)

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
10.000	15 Summer	100	0%	1				
10.001	15 Winter	100	0%	1				
10.002	15 Winter	100	0%	1				
11.000	15 Summer	100	0%	1				
11.001	15 Winter	100	0%	1				
10.003	15 Winter	100	0%	1				
12.000	15 Summer	100	0%	1				
10.004	15 Winter	100	0%	1				
10.005	15 Winter	100	0%	1	100/15 Winter			
10.006	15 Winter	100	0%	1	100/15 Summer			
13.000	15 Winter	100	0%	1				
14.000	15 Winter	100	0%	1				
13.001	15 Winter	100	0%	1	100/15 Winter			
10.007	360 Winter	100	0%	1	100/15 Summer			
10.008	360 Winter	100	0%	1	30/360 Winter			
15.000	360 Winter	100	0%	1	100/360 Winter			
16.000	360 Winter	100	0%	1	100/240 Summer			
15.001	360 Winter	100	0%	1	100/120 Summer			
15.002	360 Winter	100	0%	1	30/240 Winter			
17.000	360 Winter	100	0%	1	30/120 Winter			0
10.009	360 Winter	100	0%	1	1/15 Summer		1/15 Summer	54
10.010	360 Winter	100	0%	1	30/60 Summer			
10.011	360 Winter	100	0%	1	30/60 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	10.000	39.622	-0.164	0.000	0.42	0.0	27.1	0 K
	10.001	39.558	-0.102	0.000	0.72	0.0	45.1	0 K
	10.002	39.500	-0.068	0.000	0.91	0.0	60.9	0 K
	11.000	39.419	-0.207	0.000	0.21	0.0	13.5	0 K
	11.001	39.363	-0.141	0.000	0.42	0.0	27.2	0 K
	10.003	39.341	-0.050	0.000	0.84	0.0	80.8	0 K
	12.000	39.486	-0.074	0.000	0.78	0.0	29.2	0 K
	10.004	39.318	-0.050	0.000	0.80	0.0	118.9	0 K
	10.005	39.240	0.007	0.000	0.85	0.0	122.1	SURCH'ED
	10.006	39.172	0.035	0.000	0.90	0.0	127.2	SURCH'ED
	13.000	39.197	-0.112	0.000	0.37	0.0	13.7	0 K
	14.000	39.195	-0.036	0.000	0.50	0.0	17.3	0 K
	13.001	39.180	0.021	0.000	0.83	0.0	53.2	SURCH'ED
	10.007	39.149	0.095	0.000	0.21	0.0	29.6	SURCH'ED
	10.008	39.152	0.176	0.000	0.24	0.0	33.6	SURCH'ED
	15.000	39.139	0.001	0.000	0.03	0.0	2.1	SURCH'ED
	16.000	39.139	0.102	0.000	0.10	0.0	5.6	SURCH'ED
	15.001	39.142	0.151	0.000	0.07	0.0	9.6	SURCH'ED
	15.002	39.150	0.224	0.000	0.13	0.0	12.7	SURCH'ED
	17.000	39.136	0.221	0.000	0.14	0.0	13.6	SURCH'ED
	10.009	39.150	0.592	0.000	1.51	25.3	7.4	SURCH'ED
	10.010	38.755	0.323	0.000	2.46	0.0	7.2	SURCH'ED
	10.011	38.439	0.059	0.000	1.83	0.0	7.2	SURCH'ED

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm) 300
DTS Status ON
DVD Status ON
Inertia Status OFF
Analysis Time Step 2.5 second increment (extended)

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years) 100
Climate Change (%) 30

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
10.000	15 Winter	100	30%	1	100/15 Winter			
10.001	15 Winter	100	30%	1	100/15 Summer			
10.002	15 Winter	100	30%	1	100/15 Summer			
11.000	15 Winter	100	30%	1				
11.001	15 Winter	100	30%	1	100/15 Summer			
10.003	15 Winter	100	30%	1	100/15 Summer			
12.000	15 Winter	100	30%	1	100/15 Winter			
10.004	15 Winter	100	30%	1	100/15 Summer			
10.005	15 Winter	100	30%	1	100/15 Summer			
10.006	360 Winter	100	30%	1	100/15 Summer			
13.000	360 Winter	100	30%	1	100/30 Summer			
14.000	360 Winter	100	30%	1	100/15 Summer			
13.001	360 Winter	100	30%	1	100/15 Summer			
10.007	360 Winter	100	30%	1	100/15 Summer			
10.008	360 Winter	100	30%	1	100/15 Summer			
15.000	360 Winter	100	30%	1	100/120 Summer			
16.000	360 Winter	100	30%	1	100/15 Summer			
15.001	360 Winter	100	30%	1	100/60 Summer			
15.002	360 Winter	100	30%	1	100/30 Summer			
17.000	360 Winter	100	30%	1	100/30 Summer			0
10.009	360 Winter	100	30%	1	100/15 Summer		100/15 Summer	18
10.010	360 Winter	100	30%	1	100/15 Summer			
10.011	360 Winter	100	30%	1	100/15 Summer			

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	10.000	39.836	0.050	0.000	0.52	0.0	34.1	SURCH'ED
	10.001	39.770	0.110	0.000	0.79	0.0	50.0	SURCH'ED
	10.002	39.691	0.123	0.000	1.01	0.0	67.6	SURCH'ED
	11.000	39.626	0.000	0.000	0.27	0.0	17.5	OK
	11.001	39.600	0.096	0.000	0.49	0.0	31.6	SURCH'ED
	10.003	39.568	0.177	0.000	0.88	0.0	85.1	SURCH'ED
	12.000	39.631	0.071	0.000	0.99	0.0	37.1	SURCH'ED
	10.004	39.547	0.179	0.000	0.84	0.0	125.6	SURCH'ED
	10.005	39.450	0.217	0.000	0.96	0.0	138.7	SURCH'ED
	10.006	39.386	0.249	0.000	0.22	0.0	31.9	SURCH'ED
	13.000	39.386	0.077	0.000	0.06	0.0	2.3	SURCH'ED
	14.000	39.386	0.155	0.000	0.09	0.0	3.0	SURCH'ED
	13.001	39.385	0.226	0.000	0.15	0.0	9.5	SURCH'ED
	10.007	39.384	0.330	0.000	0.32	0.0	45.1	SURCH'ED
	10.008	39.381	0.405	0.000	0.36	0.0	50.3	SURCH'ED
	15.000	39.379	0.241	0.000	0.04	0.0	2.7	SURCH'ED
	16.000	39.380	0.343	0.000	0.13	0.0	7.5	SURCH'ED
	15.001	39.379	0.388	0.000	0.10	0.0	13.8	SURCH'ED
	15.002	39.379	0.453	0.000	0.18	0.0	18.0	SURCH'ED
	17.000	39.378	0.463	0.000	0.11	0.0	11.1	SURCH'ED
	10.009	39.379	0.821	0.000	1.90	32.2	9.3	SURCH'ED
	10.010	38.970	0.538	0.000	3.08	0.0	9.0	SURCH'ED
	10.011	38.477	0.097	0.000	2.29	0.0	9.0	SURCH'ED