

Woodcroft Farm
Network 300

Designed by CMB

Checked by

Network 2013.1.1



PN	PN	Length	Fall	Slope	I.Area	T.E.	k	HYD	DIA
		(m)	(m)	(1:X)	(ha)	(mins)	(mm)	SECT	(mm)
	US/MH	US/CL	US/IL	US	DS/CL	DS/IL	DS	Ctrl	US/MH
	Name	(m)	(m)	C.Depth (m)	(m)	(m)	C.Depth (m)		(mm)
	308.004	17.978	0.207	87.0	0.034	0.00	0.600	o	300
	300.007	21.925	0.092	238.3	0.038	0.00	0.600	o	450
	300.008	9.732	0.041	237.4	0.062	0.00	0.600	o	300
08.004	88	56.800	55.306	1.194	56.600	55.099	1.201	Orifice	1800
00.007	16	56.600	54.650	1.500	56.500	54.558	1.492		1350
00.008	17	56.500	54.558	1.642	56.500	54.517	1.683	Hydro-Brake®	1350

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
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300.008	56.500	54.517	0.000	0	0
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Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coefficient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Flow * 10m ³ /ha Storage	2.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	7	Number of Storage Structures	10	Number of Real Time Controls	0

Rainfall Model	FSR	M5-60 (mm)	19.000	Cv (Summer)	0.750
Return Period (years)	2	Ratio R	0.350	Cv (Winter)	0.840
Region	England and Wales	Profile Type	Summer	Storm Duration (mins)	15

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Hydro-Brake® Manhole: 74, DS/PN: 300.003, Volume (m³): 4.9

Design Head (m) 0.400 Design Flow (l/s) 0.8 Hydro-Brake® Type Md7 Diameter (mm) 43 Invert Level (m) 57.438

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.4	0.600	1.0	1.600	1.6	2.600	2.0	5.000	2.8	7.500	3.4
0.200	0.6	0.800	1.1	1.800	1.7	3.000	2.2	5.500	2.9	8.000	3.5
0.300	0.7	1.000	1.2	2.000	1.8	3.500	2.3	6.000	3.1	8.500	3.6
0.400	0.8	1.200	1.4	2.200	1.9	4.000	2.5	6.500	3.2	9.000	3.7
0.500	0.9	1.400	1.5	2.400	1.9	4.500	2.6	7.000	3.3	9.500	3.8

Diameter (m) 0.150 Discharge Coefficient 0.600 Invert Level (m) 55.824

Diameter (m) 0.080 Discharge Coefficient 0.600 Invert Level (m) 55.750

Diameter (m) 0.125 Discharge Coefficient 0.600 Invert Level (m) 55.230

Design Head (m) 0.400 Design Flow (l/s) 0.8 Hydro-Brake® Type Md7 Diameter (mm) 43 Invert Level (m) 56.200

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	0.4	0.600	1.0	1.600	1.6	2.600	2.0	5.000	2.8	7.500	3.4
0.200	0.6	0.800	1.1	1.800	1.7	3.000	2.2	5.500	2.9	8.000	3.5
0.300	0.7	1.000	1.2	2.000	1.8	3.500	2.3	6.000	3.1	8.500	3.6
0.400	0.8	1.200	1.4	2.200	1.9	4.000	2.5	6.500	3.2	9.000	3.7
0.500	0.9	1.400	1.5	2.400	1.9	4.500	2.6	7.000	3.3	9.500	3.8

Diameter (m) 0.100 Discharge Coefficient 0.600 Invert Level (m) 55.306

Design Head (m) 1.200 Design Flow (l/s) 7.0 Hydro-Brake® Type Md7 Diameter (mm) 97 Invert Level (m) 54.558

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	2.2	0.600	4.9	1.600	8.0	2.600	10.2	5.000	14.2	7.500	17.4
0.200	2.8	0.800	5.7	1.800	8.5	3.000	11.0	5.500	14.9	8.000	18.0
0.300	3.5	1.000	6.4	2.000	9.0	3.500	11.9	6.000	15.6	8.500	18.5
0.400	4.0	1.200	7.0	2.200	9.4	4.000	12.7	6.500	16.2	9.000	19.1
0.500	4.5	1.400	7.5	2.400	9.8	4.500	13.5	7.000	16.8	9.500	19.6

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Caversham Bridge House			Woodcroft Farm		
Waterman Place			Network 300		
Reading RG1 8DN					
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Storage Structures for Network 300

Cellular Storage Manhole: 2, DS/PN: 301.000

Invert Level (m)57.660Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	70.0	70.0	0.400	70.0	83.6	0.401	0.0	83.6

Cellular Storage Manhole: 68, DS/PN: 302.000

Invert Level (m)57.600Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	395.0	395.0	0.800	395.0	474.2	0.801	0.0	474.2

Cellular Storage Manhole: 71, DS/PN: 304.000

Invert Level (m)57.690Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	331.5	331.5	0.400	331.5	362.3	0.401	0.0	362.3

Cellular Storage Manhole: 10, DS/PN: 305.000

Invert Level (m)55.844Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	40.5	40.5	0.800	40.5	62.1	0.801	0.0	62.1

Cellular Storage Manhole: 76, DS/PN: 306.000

Invert Level (m)55.829Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	76.5	76.5	1.200	76.5	128.1	1.201	0.0	128.1

Cellular Storage Manhole: 78, DS/PN: 307.000

Invert Level (m)55.751Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	166.5	166.5	1.200	166.5	266.1	1.201	0.0	266.1

Cellular Storage Manhole: 80, DS/PN: 300.006

Invert Level (m)55.230Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	139.5	139.5	0.800	139.5	196.3	0.801	0.0	196.3

Cellular Storage Manhole: 83, DS/PN: 308.000

Invert Level (m)56.256Safety Factor2.0

Infiltration Coefficient Base (m/hr)0.00000Porosity0.95

Infiltration Coefficient Side (m/hr)0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	90.0	90.0	0.800	90.0	123.6	0.801	0.0	123.6

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Cellular Storage Manhole: 85, DS/PN: 309.000

Invert Level (m) 56.621 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	99.0	99.0	0.400	99.0	115.0	0.401	0.0	115.0

Cellular Storage Manhole: 17, DS/PN: 300.008

Invert Level (m) 54.558 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	140.0	140.0	1.200	140.0	197.6	1.201	0.0	197.6

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Simulation Criteria

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	7	Number of Storage Structures	10	Number of Real Time Controls	0

Rainfall Model	FSR	M5-60 (mm)	19.000	Cv (Summer)	0.750
Region	England and Wales	Ratio R	0.350	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 30

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
300.000	15 Winter	1	0%	100/15 Summer				
301.000	1440 Winter	1	0%	30/960 Winter				
300.001	30 Winter	1	0%	30/15 Summer				
302.000	1440 Winter	1	0%	30/360 Winter				
300.002	15 Winter	1	0%	1/15 Summer				
303.000	15 Winter	1	0%	30/15 Summer				
304.000	1440 Winter	1	0%	30/1440 Winter				
303.001	30 Winter	1	0%	30/15 Summer				
303.002	30 Winter	1	0%	1/15 Winter				
300.003	30 Winter	1	0%	1/15 Summer				
305.000	60 Winter	1	0%	100/30 Summer				
305.001	15 Winter	1	0%	100/15 Winter				
300.004	15 Winter	1	0%	100/15 Summer				
306.000	120 Winter	1	0%	100/60 Winter				
306.001	15 Winter	1	0%	100/15 Summer				
307.000	360 Winter	1	0%	100/30 Winter				
300.005	15 Winter	1	0%	30/15 Summer				
300.006	240 Winter	1	0%	100/240 Summer				
308.000	240 Winter	1	0%	100/60 Summer				
308.001	15 Winter	1	0%	30/15 Summer				
309.000	60 Winter	1	0%					
308.002	15 Winter	1	0%	30/15 Summer				
308.003	15 Winter	1	0%	30/15 Summer				
308.004	15 Winter	1	0%	30/15 Summer				
300.007	960 Winter	1	0%	30/120 Winter				
300.008	960 Winter	1	0%	1/240 Winter				

PN	US/MH Name	Water	Surch'ed Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
300.000	66	59.371	-0.148	0.000	0.25	0.0	9.5	OK
301.000	2	57.787	-0.173	0.000	0.00	0.0	0.2	OK
300.001	67	57.855	-0.098	0.000	0.11	0.0	7.6	OK
302.000	68	57.787	-0.113	0.000	0.01	0.0	0.4	OK
300.002	69	57.855	0.050	0.000	0.02	0.0	1.5	SURCHARGED
303.000	70	57.975	-0.152	0.000	0.23	0.0	8.6	OK
304.000	71	57.787	-0.203	0.000	0.01	0.0	0.4	OK
303.001	72	57.875	-0.057	0.000	0.09	0.0	5.4	OK
303.002	73	57.875	0.017	0.000	0.07	0.0	4.9	SURCHARGED
300.003	74	57.872	0.134	0.000	0.00	0.0	0.8	SURCHARGED
305.000	10	55.991	-0.303	0.000	0.02	0.0	1.8	OK
305.001	11	56.005	-0.284	0.000	0.04	0.0	2.2	OK
300.004	75	56.052	-0.222	0.000	0.03	0.0	4.2	OK
306.000	76	55.863	-0.266	0.000	0.01	0.0	0.4	OK
306.001	77	55.952	-0.176	0.000	0.12	0.0	7.7	OK
307.000	78	55.860	-0.191	0.000	0.02	0.0	0.9	OK
300.005	79	55.946	-0.104	0.000	0.05	0.0	5.3	OK
300.006	80	55.333	-0.197	0.000	0.07	0.0	4.8	OK
308.000	83	56.354	-0.202	0.000	0.01	0.0	0.4	OK
308.001	84	56.400	-0.155	0.000	0.01	0.0	0.5	OK
309.000	85	56.634	-0.212	0.000	0.01	0.0	0.5	OK
308.002	86	56.432	-0.068	0.000	0.00	0.0	0.6	OK
308.003	87	55.540	-0.260	0.000	0.04	0.0	4.4	OK
308.004	88	55.474	-0.131	0.000	0.07	0.0	7.1	OK
300.007	16	54.924	-0.176	0.000	0.03	0.0	5.1	OK
300.008	17	54.923	0.065	0.000	0.07	0.0	3.8	SURCHARGED

Simulation Criteria

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	7	Number of Storage Structures	10	Number of Real Time Controls	0

Rainfall Model	FSR	M5-60 (mm)	19.000	Cv (Summer)	0.750
Region	England and Wales	Ratio R	0.350	Cv (Winter)	0.840

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, 30

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow	Pipe	Status
		Level (m)		Volume (m³)		(l/s)	Flow (l/s)	
300.000	66	59.423	-0.096	0.000	0.62	0.0	23.3	OK
301.000	2	57.993	0.033	0.000	0.23	0.0	9.0	SURCHARGED
300.001	67	58.019	0.066	0.000	0.06	0.0	3.9	SURCHARGED
302.000	68	57.999	0.099	0.000	0.13	0.0	8.5	SURCHARGED
300.002	69	58.057	0.251	0.000	0.08	0.0	4.6	SURCHARGED
303.000	70	58.158	0.031	0.000	0.57	0.0	21.6	SURCHARGED
304.000	71	57.996	0.006	0.000	0.17	0.0	9.8	SURCHARGED
303.001	72	58.082	0.150	0.000	0.16	0.0	9.6	SURCHARGED
303.002	73	58.111	0.253	0.000	0.17	0.0	10.9	SURCHARGED
300.003	74	58.107	0.369	0.000	0.01	0.0	1.0	SURCHARGED
305.000	10	56.193	-0.101	0.000	0.03	0.0	3.6	OK
305.001	11	56.194	-0.095	0.000	0.07	0.0	3.9	OK
300.004	75	56.273	-0.001	0.000	0.08	0.0	10.9	OK
306.000	76	56.002	-0.127	0.000	0.02	0.0	1.1	OK
306.001	77	56.128	0.000	0.000	0.26	0.0	15.9	OK
307.000	78	56.000	-0.051	0.000	0.05	0.0	2.3	OK
300.005	79	56.087	0.037	0.000	0.06	0.0	7.2	SURCHARGED
300.006	80	55.484	-0.046	0.000	0.10	0.0	6.4	OK
308.000	83	56.541	-0.015	0.000	0.01	0.0	0.6	OK
308.001	84	56.570	0.015	0.000	0.01	0.0	0.7	SURCHARGED
309.000	85	56.650	-0.196	0.000	0.04	0.0	1.5	OK
308.002	86	56.596	0.096	0.000	0.00	0.0	0.8	SURCHARGED
308.003	87	55.864	0.064	0.000	0.09	0.0	9.1	SURCHARGED
308.004	88	55.856	0.251	0.000	0.14	0.0	14.7	SURCHARGED
300.007	16	55.318	0.218	0.000	0.05	0.0	9.2	SURCHARGED
300.008	17	55.316	0.458	0.000	0.10	0.0	5.5	SURCHARGED

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Network 300

Simulation Criteria

Areal Reduction Factor	1.000	Manhole Headloss Coeff (Global)	0.500	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Foul Sewage per hectare (l/s)	0.000	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Additional Flow - % of Total Flow	0.000	Flow per Person per Day (l/per/day)	0.000

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	7	Number of Storage Structures	10	Number of Real Time Controls	0

Synthetic Rainfall Details

Synthetic Rainfall Details						
Rainfall Model		FSR	M5-60 (mm)	19.000	Cv (Summer)	0.750
Region	England and Wales		Ratio R	0.350	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	OFF
DVD Status	ON
Inertia Status	ON

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, 30

PN	Storm	Return Period	Climate Change	First X Surchage	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
300.000	15 Winter	100	+30%	100/15 Summer				
301.000	1440 Winter	100	+30%	30/960 Winter				
300.001	1440 Winter	100	+30%	30/15 Summer				
302.000	1440 Winter	100	+30%	30/360 Winter				
300.002	1440 Winter	100	+30%	1/15 Summer				
303.000	1440 Winter	100	+30%	30/15 Summer				
304.000	1440 Winter	100	+30%	30/1440 Winter				
303.001	1440 Winter	100	+30%	30/15 Summer				
303.002	1440 Winter	100	+30%	1/15 Winter				
300.003	1440 Winter	100	+30%	1/15 Summer				
305.000	60 Winter	100	+30%	100/30 Summer				
305.001	60 Winter	100	+30%	100/15 Winter				
300.004	60 Winter	100	+30%	100/15 Summer				
306.000	240 Winter	100	+30%	100/60 Winter				
306.001	240 Winter	100	+30%	100/15 Summer				
307.000	240 Winter	100	+30%	100/30 Winter				
300.005	240 Winter	100	+30%	30/15 Summer				
300.006	960 Winter	100	+30%	100/240 Summer				
308.000	480 Winter	100	+30%	100/60 Summer				
308.001	480 Winter	100	+30%	30/15 Summer				
309.000	480 Winter	100	+30%					
308.002	480 Winter	100	+30%	30/15 Summer				
308.003	15 Winter	100	+30%	30/15 Summer				
308.004	15 Winter	100	+30%	30/15 Summer				
300.007	960 Winter	100	+30%	30/120 Winter				
300.008	960 Winter	100	+30%	1/240 Winter				

PN	US/MH Name	Water	Surch'ed Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
300.000	66	59.524	0.005	0.000	1.02	0.0	38.2	SURCHARGED
301.000	2	59.057	1.097	0.000	0.31	0.0	12.2	SURCHARGED
300.001	67	59.057	1.104	0.000	0.11	0.0	7.5	SURCHARGED
302.000	68	59.057	1.157	0.000	0.14	0.0	9.2	FLOOD RISK
300.002	69	59.057	1.251	0.000	0.10	0.0	5.9	FLOOD RISK
303.000	70	59.057	0.930	0.000	0.08	0.0	3.1	SURCHARGED
304.000	71	59.057	1.067	0.000	0.19	0.0	11.0	SURCHARGED
303.001	72	59.057	1.125	0.000	0.11	0.0	6.5	SURCHARGED
303.002	73	59.057	1.199	0.000	0.08	0.0	5.2	FLOOD RISK
300.003	74	59.056	1.318	0.000	0.01	0.0	1.6	FLOOD RISK
305.000	10	56.373	0.079	0.000	0.06	0.0	6.8	SURCHARGED
305.001	11	56.375	0.086	0.000	0.13	0.0	7.3	SURCHARGED
300.004	75	56.377	0.103	0.000	0.16	0.0	21.9	SURCHARGED
306.000	76	56.212	0.083	0.000	0.04	0.0	2.0	SURCHARGED
306.001	77	56.212	0.084	0.000	0.10	0.0	6.1	SURCHARGED
307.000	78	56.209	0.158	0.000	0.09	0.0	4.1	SURCHARGED
300.005	79	56.210	0.160	0.000	0.07	0.0	8.7	SURCHARGED
300.006	80	55.827	0.297	0.000	0.17	0.0	11.1	SURCHARGED
308.000	83	56.713	0.157	0.000	0.02	0.0	0.7	SURCHARGED
308.001	84	56.713	0.158	0.000	0.01	0.0	0.7	SURCHARGED
309.000	85	56.713	-0.133	0.000	0.03	0.0	1.2	OK
308.002	86	56.713	0.213	0.000	0.00	0.0	0.9	SURCHARGED
308.003	87	56.452	0.652	0.000	0.12	0.0	11.8	SURCHARGED
308.004	88	56.440	0.835	0.000	0.21	0.0	21.6	SURCHARGED
300.007	16	55.776	0.676	0.000	0.09	0.0	16.0	SURCHARGED
300.008	17	55.773	0.915	0.000	0.13	0.0	7.0	SURCHARGED