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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Parcel A











Pipe Sizes Standard Manhole Sizes Standard

FSR Rainfall Model - England and Wales

Return Period (years)	100	PIMP (%)	100
M5-60 (mm)	19.200	Add Flow / Climate Change (%)	0
Ratio R	0.250	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	450


Designed with Level Soffits

Network Design Table for Parcel A




PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	33.155	0.800	41.4	0.010	5.00	0.0	0.600	o	150	Pipe/Conduit	
2.000	5.115	0.100	51.2	0.003	5.00	0.0	0.600	o	150	Pipe/Conduit	
1.001	9.024	0.100	90.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.002	44.627	0.470	95.0	0.015	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.003	42.770	1.828	23.4	0.015	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.004	36.521	3.320	11.0	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.005	29.585	2.348	12.6	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.006	14.095	1.678	8.4	0.005	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.007	21.416	1.785	12.0	0.010	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.000	14.581	0.900	16.2	0.005	5.00	0.0	0.600	o	150	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.35	152.630	0.010	0.0	0.0	0.0	1.57	27.7	1.4
2.000	50.00	5.06	151.930	0.003	0.0	0.0	0.0	1.41	24.9	0.4
1.001	50.00	5.49	151.830	0.013	0.0	0.0	0.0	1.06	18.7	1.8
1.002	50.00	6.22	151.730	0.028	0.0	0.0	0.0	1.03	18.2	3.8
1.003	50.00	6.56	151.260	0.043	0.0	0.0	0.0	2.09	36.9	5.8
1.004	50.00	6.76	149.430	0.053	0.0	0.0	0.0	3.06	54.0	7.2
1.005	50.00	6.93	146.110	0.063	0.0	0.0	0.0	2.85	50.4	8.5
1.006	50.00	7.00	143.751	0.068	0.0	0.0	0.0	3.50	61.8	9.2
1.007	50.00	7.12	142.080	0.078	0.0	0.0	0.0	2.92	51.7	10.6
3.000	50.00	5.10	141.280	0.005	0.0	0.0	0.0	2.52	44.4	0.7

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Network Design Table for Parcel A




PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
3.001	10.867	0.145	74.9	0.004	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.008	10.906	0.086	126.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.009	11.149	0.074	150.7	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
3.001	50.00	5.25	140.380	0.009	0.0	0.0	0.0	1.16	20.5	1.2
1.008	50.00	7.27	140.160	0.087	0.0	0.0	0.0	1.16	46.1	11.8
1.009	50.00	7.45	140.074	0.087	0.0	0.0	0.0	1.06	42.3	11.8

Manhole Schedules for Parcel A

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out		Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	
CP01	153.530	0.900	Open Manhole	500	1.000	152.630	150			
CP03	152.430	0.500	Open Manhole	500	2.000	151.930	150			
CP02	152.730	0.900	Open Manhole	500	1.001	151.830	150	1.000	151.830	150
								2.000	151.830	150
CP04	152.810	1.080	Open Manhole	500	1.002	151.730	150	1.001	151.730	150
CP05	152.610	1.350	Open Manhole	500	1.003	151.260	150	1.002	151.260	150
CP06	150.340	0.910	Open Manhole	500	1.004	149.430	150	1.003	149.432	150
CP07	147.010	0.900	Open Manhole	500	1.005	146.110	150	1.004	146.110	150
CP08	144.951	1.200	Open Manhole	500	1.006	143.751	150	1.005	143.762	150
CP09	143.280	1.207	Open Manhole	500	1.007	142.080	150	1.006	142.073	150
CP11	142.080	0.800	Open Manhole	500	3.000	141.280	150			
CP10	141.280	0.900	Open Manhole	500	3.001	140.380	150	3.000	140.380	150
SW1	141.360	1.200	Open Manhole	1500	1.008	140.160	225	1.007	140.295	150
								3.001	140.235	150
SW2	141.420	1.346	Open Manhole	1500	1.009	140.074	225	1.008	140.074	225
HW1	140.450	0.450	Open Manhole	0		OUTFALL		1.009	140.000	225

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
CP01	383448.326	447209.020			No Entry	
CP03	383445.103	447170.890			No Entry	
CP02	383445.350	447175.999			No Entry	
CP04	383437.081	447179.611			No Entry	
CP05	383399.964	447154.834			No Entry	
CP06	383364.370	447131.122			No Entry	
CP07	383334.015	447110.813			No Entry	

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Manhole Schedules for Parcel A

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
CP08	383311.125	447092.071			No Entry	
CP09	383301.927	447081.390			No Entry	
CP11	383321.626	447045.584			No Entry	
CP10	383308.222	447051.325	383308.222	447051.325	Required	
SW1	383301.645	447059.976	383301.645	447059.976	Required	
SW2	383291.347	447056.386	383291.347	447056.386	Required	
HW1	383282.276	447049.904			No Entry	

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PIPELINE SCHEDULES for Parcel A

Upstream Manhole


PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
1.000	o	150	CP01	153.530	152.630	0.750	Open Manhole		500
2.000	o	150	CP03	152.430	151.930	0.350	Open Manhole		500
1.001	o	150	CP02	152.730	151.830	0.750	Open Manhole		500
1.002	o	150	CP04	152.810	151.730	0.930	Open Manhole		500
1.003	o	150	CP05	152.610	151.260	1.200	Open Manhole		500
1.004	o	150	CP06	150.340	149.430	0.760	Open Manhole		500
1.005	o	150	CP07	147.010	146.110	0.750	Open Manhole		500
1.006	o	150	CP08	144.951	143.751	1.050	Open Manhole		500
1.007	o	150	CP09	143.280	142.080	1.050	Open Manhole		500
3.000	o	150	CP11	142.080	141.280	0.650	Open Manhole		500
3.001	o	150	CP10	141.280	140.380	0.750	Open Manhole		500
1.008	o	225	SW1	141.360	140.160	0.975	Open Manhole		1500
1.009	o	225	SW2	141.420	140.074	1.121	Open Manhole		1500

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
1.000	33.155	41.4	CP02	152.730	151.830	0.750	Open Manhole		500
2.000	5.115	51.2	CP02	152.730	151.830	0.750	Open Manhole		500
1.001	9.024	90.2	CP04	152.810	151.730	0.930	Open Manhole		500
1.002	44.627	95.0	CP05	152.610	151.260	1.200	Open Manhole		500
1.003	42.770	23.4	CP06	150.340	149.432	0.758	Open Manhole		500
1.004	36.521	11.0	CP07	147.010	146.110	0.750	Open Manhole		500
1.005	29.585	12.6	CP08	144.951	143.762	1.039	Open Manhole		500
1.006	14.095	8.4	CP09	143.280	142.073	1.057	Open Manhole		500
1.007	21.416	12.0	SW1	141.360	140.295	0.915	Open Manhole		1500
3.000	14.581	16.2	CP10	141.280	140.380	0.750	Open Manhole		500
3.001	10.867	74.9	SW1	141.360	140.235	0.975	Open Manhole		1500
1.008	10.906	126.8	SW2	141.420	140.074	1.121	Open Manhole		1500
1.009	11.149	150.7	HW1	140.450	140.000	0.225	Open Manhole		0

Free Flowing Outfall Details for Parcel A

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.009	HW1	140.450	140.000	0.000	0	0

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Simulation Criteria for Parcel A

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	40.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.200	Storm Duration (mins)	30
Ratio R	0.250		

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Online Controls for Parcel A

Orifice Manhole: CP05, DS/PN: 1.003, Volume (m³): 1.0

Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 151.260

Orifice Manhole: SW1, DS/PN: 1.008, Volume (m³): 2.7

Diameter (m) 0.042 Discharge Coefficient 0.600 Invert Level (m) 140.160

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Storage Structures for Parcel A

Filter Drain Manhole: CP08, DS/PN: 1.006

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.225
Infiltration Coefficient Side (m/hr)	0.00000	Pipe Depth above Invert (m)	0.900
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	125.0
Invert Level (m)	143.751	Cap Volume Depth (m)	0.800
Trench Width (m)	1.0	Cap Infiltration Depth (m)	0.600
Trench Length (m)	207.0		

Filter Drain Manhole: CP10, DS/PN: 3.001

Infiltration Coefficient Base (m/hr)	0.00000	Pipe Diameter (m)	0.150
Infiltration Coefficient Side (m/hr)	0.25200	Pipe Depth above Invert (m)	0.700
Safety Factor	2.0	Number of Pipes	1
Porosity	0.30	Slope (1:X)	100.0
Invert Level (m)	140.380	Cap Volume Depth (m)	0.500
Trench Width (m)	1.0	Cap Infiltration Depth (m)	0.400
Trench Length (m)	32.0		

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Parcel A

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0


Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.225
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)		18.600 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, 20

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	CP01	15 Winter	1	+0%				
2.000	CP03	15 Winter	1	+0%	30/15 Summer	30/15 Summer		
1.001	CP02	15 Winter	1	+0%	30/15 Summer			
1.002	CP04	30 Winter	1	+0%	30/15 Summer			
1.003	CP05	30 Winter	1	+0%	1/15 Summer	100/15 Summer		
1.004	CP06	30 Winter	1	+0%				
1.005	CP07	30 Winter	1	+0%				
1.006	CP08	30 Winter	1	+0%				
1.007	CP09	15 Winter	1	+0%				
3.000	CP11	15 Winter	1	+0%				
3.001	CP10	60 Winter	1	+0%	1/15 Summer	30/15 Winter		
1.008	SW1	60 Winter	1	+0%	1/15 Summer	30/30 Summer		
1.009	SW2	60 Winter	1	+0%				

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Parcel A

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	CP01	152.653	-0.127	0.000	0.06	1.5	OK	
2.000	CP03	151.945	-0.135	0.000	0.02	0.4	OK	19
1.001	CP02	151.864	-0.116	0.000	0.12	1.9	OK	
1.002	CP04	151.798	-0.082	0.000	0.19	3.4	OK	
1.003	CP05	151.779	0.369	0.000	0.10	3.7	SURCHARGED	5
1.004	CP06	149.460	-0.120	0.000	0.09	4.5	OK	
1.005	CP07	146.144	-0.116	0.000	0.11	5.6	OK	
1.006	CP08	143.784	-0.117	0.000	0.11	6.1	OK	
1.007	CP09	142.118	-0.112	0.000	0.15	7.1	OK	
3.000	CP11	141.293	-0.137	0.000	0.02	0.7	OK	
3.001	CP10	140.838	0.308	0.000	0.11	2.0	SURCHARGED	30
1.008	SW1	140.842	0.457	0.000	0.08	3.0	SURCHARGED	13
1.009	SW2	140.117	-0.182	0.000	0.08	3.0	OK	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Parcel A

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0


Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.225
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)		18.600 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, 20

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	CP01	15 Winter	30	+0%				
2.000	CP03	30 Winter	30	+0%	30/15 Summer	30/15 Summer		
1.001	CP02	15 Winter	30	+0%	30/15 Summer			
1.002	CP04	30 Summer	30	+0%	30/15 Summer			
1.003	CP05	30 Summer	30	+0%	1/15 Summer	100/15 Summer		
1.004	CP06	15 Winter	30	+0%				
1.005	CP07	15 Winter	30	+0%				
1.006	CP08	15 Winter	30	+0%				
1.007	CP09	15 Winter	30	+0%				
3.000	CP11	15 Winter	30	+0%				
3.001	CP10	120 Winter	30	+0%	1/15 Summer	30/15 Winter		
1.008	SW1	60 Summer	30	+0%	1/15 Summer	30/30 Summer		
1.009	SW2	60 Summer	30	+0%				

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Parcel A

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	CP01	152.667	-0.113	0.000	0.13	3.6	OK	
2.000	CP03	152.432	0.352	1.839	0.34	6.7	FLOOD	19
1.001	CP02	152.507	0.527	0.000	0.39	6.4	FLOOD RISK	
1.002	CP04	152.559	0.679	0.000	0.30	5.3	FLOOD RISK	
1.003	CP05	152.592	1.182	0.000	0.16	5.8	FLOOD RISK	5
1.004	CP06	149.473	-0.107	0.000	0.18	9.2	OK	
1.005	CP07	146.163	-0.097	0.000	0.27	12.9	OK	
1.006	CP08	143.803	-0.098	0.000	0.26	14.7	OK	
1.007	CP09	142.145	-0.085	0.000	0.38	18.5	OK	
3.000	CP11	141.300	-0.130	0.000	0.04	1.8	OK	
3.001	CP10	141.289	0.759	8.904	0.21	3.8	FLOOD	30
1.008	SW1	141.360	0.975	0.115	0.10	4.0	FLOOD	13
1.009	SW2	140.124	-0.175	0.000	0.11	4.0	OK	

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

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	40.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0


Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.225
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)		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, 20

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	CP01	15 Winter	100	+20%				
2.000	CP03	60 Winter	100	+20%	30/15 Summer	30/15 Summer		
1.001	CP02	15 Summer	100	+20%	30/15 Summer			
1.002	CP04	15 Summer	100	+20%	30/15 Summer			
1.003	CP05	15 Winter	100	+20%	1/15 Summer	100/15 Summer		
1.004	CP06	15 Winter	100	+20%				
1.005	CP07	15 Winter	100	+20%				
1.006	CP08	15 Winter	100	+20%				
1.007	CP09	15 Winter	100	+20%				
3.000	CP11	30 Summer	100	+20%				
3.001	CP10	120 Winter	100	+20%	1/15 Summer	30/15 Winter		
1.008	SW1	60 Summer	100	+20%	1/15 Summer	30/30 Summer		
1.009	SW2	60 Summer	100	+20%				

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Trafford Wharf Road Trafford Park Manchester M17 1HH		
Date 29/10/2020 12:13 File PARCEL A- RIMINGTON.MDX	Designed by MOSSROOR.KHAN Checked by	
Micro Drainage		Network 2019.1

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

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	CP01	152.677	-0.103	0.000	0.21	5.5	OK	
2.000	CP03	152.437	0.357	6.901	0.36	7.0	FLOOD	19
1.001	CP02	152.531	0.551	0.000	0.48	8.0	FLOOD RISK	
1.002	CP04	152.616	0.736	0.000	0.37	6.5	FLOOD RISK	
1.003	CP05	152.610	1.200	0.374	0.17	6.0	FLOOD	5
1.004	CP06	149.479	-0.101	0.000	0.23	12.0	OK	
1.005	CP07	146.173	-0.087	0.000	0.37	18.0	OK	
1.006	CP08	143.814	-0.087	0.000	0.37	21.0	OK	
1.007	CP09	142.160	-0.070	0.000	0.55	26.9	OK	
3.000	CP11	141.306	-0.124	0.000	0.07	2.7	OK	
3.001	CP10	141.304	0.774	24.465	0.21	3.9	FLOOD	30
1.008	SW1	141.362	0.977	2.500	0.10	4.0	FLOOD	13
1.009	SW2	140.124	-0.175	0.000	0.11	4.0	OK	