

RPS P&D		Page 1
20 Milton Park Abingdon Oxfordshire OX14 4SH	BOGNOR REGIS SITE 2 SURFACE WATER DRAINAGE 1 in 100 + 30% CC	
Date 27/11/13	Designed by SL	
File Site 2 v9.mdx	Checked by LA	
Causeway		Network 2013.1

Summary of Critical Results by Maximum Level (Rank 1) for Perm Paving

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/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 58
 Number of Online Controls 63 Number of Time/Area Diagrams 0
 Number of Offline Controls 1 Number of Real Time Controls 0

Synthetic Rainfall Details

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

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

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	First X Surcharge	First Y Flood	First Z Overflow	O/F Lvl Act. Exc.
S1.002	60 Winter	100	+30%	100/15	Summer		
S1.003	60 Winter	100	+30%	100/15	Summer		
S3.002	60 Winter	100	+30%	100/15	Summer		
S1.004	60 Winter	100	+30%	100/15	Summer		
S4.002	60 Winter	100	+30%	100/15	Summer		
S5.002	60 Winter	100	+30%	100/15	Summer		
S5.003	60 Winter	100	+30%	100/15	Summer		
S5.004	60 Winter	100	+30%	100/15	Summer		
S1.005	60 Winter	100	+30%	100/15	Summer		
S8.002	60 Winter	100	+30%	100/15	Summer		
S8.003	30 Winter	100	+30%				
S8.004	60 Winter	100	+30%	100/15	Summer		
S1.006	60 Winter	100	+30%	100/15	Summer		
S11.002	120 Winter	100	+30%	100/15	Summer		
S1.007	240 Winter	100	+30%	100/15	Summer		
S1.008	240 Winter	100	+30%	100/15	Summer		
S12.002	240 Winter	100	+30%				
S12.003	240 Winter	100	+30%				
S12.004	240 Winter	100	+30%				
S12.005	120 Winter	100	+30%	100/30	Winter		
S12.006	240 Winter	100	+30%				
S12.007	120 Winter	100	+30%	100/15	Winter		

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Abingdon	SURFACE WATER DRAINAGE						
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PN	Storm	Return Climate Period Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
S19.000	240 Winter	100 +30%	100/120 Winter				
S19.001	120 Winter	100 +30%	100/60 Winter				
S17.002	120 Winter	100 +30%	100/30 Winter				
S17.003	240 Winter	100 +30%	100/15 Winter				
S12.008	240 Winter	100 +30%	100/15 Summer				
S20.002	240 Winter	100 +30%	100/15 Summer				
S12.009	240 Winter	100 +30%	100/15 Summer				
S1.009	240 Winter	100 +30%	100/15 Summer		100/15 Summer	18	
S23.002	120 Winter	100 +30%	100/15 Summer				
S24.002	120 Winter	100 +30%	100/15 Summer				
S24.003	120 Winter	100 +30%	100/15 Summer				
S1.010	120 Winter	100 +30%	100/15 Summer				
S26.002	240 Winter	100 +30%	100/15 Winter				
S26.003	30 Winter	100 +30%					
S26.004	60 Winter	100 +30%					
S26.005	120 Winter	100 +30%	100/15 Summer				
S34.002	120 Winter	100 +30%	100/15 Summer				
S26.006	60 Winter	100 +30%					
S35.000	240 Winter	100 +30%	100/15 Winter				
S36.000	240 Winter	100 +30%	100/15 Summer				
S35.001	240 Winter	100 +30%	100/15 Summer				
S35.002	240 Winter	100 +30%	100/15 Summer				
S26.007	120 Winter	100 +30%	100/15 Summer				
S1.011	120 Winter	100 +30%	100/15 Summer				
S37.002	240 Winter	100 +30%	100/15 Summer				
S38.002	240 Winter	100 +30%	100/15 Summer				
S37.003	240 Winter	100 +30%	100/15 Summer				
S1.012	240 Winter	100 +30%	100/15 Summer				
S1.013	240 Winter	100 +30%	100/15 Summer				
S42.002	240 Winter	100 +30%	100/15 Summer				
S42.003	240 Winter	100 +30%	100/15 Summer				
S45.002	240 Winter	100 +30%	100/15 Summer				
S45.003	240 Winter	100 +30%	100/15 Summer				
S45.004	60 Winter	100 +30%					
S47.002	240 Winter	100 +30%	100/15 Summer				
S47.003	240 Winter	100 +30%	100/15 Summer				
S47.004	60 Winter	100 +30%					
S47.005	60 Winter	100 +30%					
S47.006	60 Winter	100 +30%					
S47.007	60 Winter	100 +30%					
S47.008	60 Winter	100 +30%					
S47.009	60 Winter	100 +30%					
S45.005	240 Winter	100 +30%	100/15 Summer				
S1.014	240 Winter	100 +30%	100/15 Summer				
S57.000	240 Winter	100 +30%	100/30 Winter				
S58.000	240 Winter	100 +30%	100/30 Winter				
S58.001	240 Winter	100 +30%	100/15 Winter				
S57.001	240 Winter	100 +30%	100/15 Winter				
S57.002	15 Winter	100 +30%	100/15 Winter				
S57.003	30 Winter	100 +30%					
S57.004	30 Winter	100 +30%	100/15 Summer				
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Summary of Critical Results by Maximum Level (Rank 1) for Perm Paving

PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Lvl Act. Exc.
S64.000	240 Winter	100	+30%	100/15 Winter			
S64.001	240 Winter	100	+30%	100/15 Summer			
S57.005	240 Winter	100	+30%	100/15 Summer			
S57.006	60 Winter	100	+30%				
S57.007	60 Winter	100	+30%				
S57.008	240 Winter	100	+30%	100/15 Summer			
S68.000	240 Winter	100	+30%	100/15 Summer			
S68.001	240 Winter	100	+30%	100/15 Summer			
S1.015	240 Winter	100	+30%	100/15 Summer			

PN	US/MR Name	Water		Flooded		Pipe		Status
		Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Flow (l/s)	
S1.002	S3	8.128	0.475	0.000	0.39	0.0	5.0	SURCHARGED
S1.003	S6	8.121	0.526	0.000	0.42	0.0	5.5	SURCHARGED
S3.002	S9	8.058	0.503	0.000	0.24	0.0	2.9	SURCHARGED
S1.004	S10	8.105	0.587	0.000	0.18	0.0	6.6	SURCHARGED
S4.002	S13	8.152	0.643	0.000	0.35	0.0	4.7	SURCHARGED
S5.002	S16	8.168	0.588	0.000	0.46	0.0	2.6	SURCHARGED
S5.003	S19	8.152	0.671	0.000	0.45	0.0	2.4	SURCHARGED
S5.004	S22	8.140	0.706	0.000	0.35	0.0	4.4	SURCHARGED
S1.005	S23	8.131	0.737	0.000	0.09	0.0	12.3	SURCHARGED
S8.002	S26	7.876	0.407	0.000	0.15	0.0	2.0	SURCHARGED
S8.003	S29	7.370	0.000	0.000	0.32	0.0	4.7	SURCHARGED*
S8.004	S32	7.861	0.562	0.000	0.44	0.0	4.8	SURCHARGED
S1.006	S33	7.855	0.583	0.000	0.13	0.0	17.5	SURCHARGED
S11.002	S36	7.700	0.414	0.000	0.45	0.0	2.6	SURCHARGED
S1.007	S37	7.709	0.493	0.000	0.17	0.0	15.8	SURCHARGED
S1.008	S38	7.708	0.514	0.000	0.19	0.0	17.5	SURCHARGED
S12.002	S41	7.662	-0.046	0.000	0.08	0.0	1.1	OK
S12.003	S44	7.573	0.000	0.000	0.15	0.0	2.2	SURCHARGED*
S12.004	S47	7.476	0.000	0.000	0.26	0.0	3.5	SURCHARGED*
S12.005	S50	7.698	0.269	0.000	0.16	0.0	4.6	SURCHARGED
S12.006	S53	7.392	0.000	0.000	0.21	0.0	6.3	SURCHARGED*
S12.007	S54	7.699	0.352	0.000	0.15	0.0	10.3	SURCHARGED
S19.000	S59	7.644	0.083	0.000	0.10	0.0	0.4	SURCHARGED
S19.001	S60	7.654	0.113	0.000	0.22	0.0	1.2	SURCHARGED
S17.002	S61	7.695	0.275	0.000	0.23	0.0	3.1	SURCHARGED
S17.003	S62	7.697	0.364	0.000	0.07	0.0	2.5	SURCHARGED
S12.008	S63	7.702	0.467	0.000	0.13	0.0	11.8	SURCHARGED
S20.002	S68	7.689	0.445	0.000	0.13	0.0	1.5	SURCHARGED
S12.009	S69	7.708	0.497	0.000	0.13	0.0	13.7	SURCHARGED
S1.009	S72	7.722	0.549	0.000	0.36	39.6	33.6	SURCHARGED
S23.002	S75	7.596	0.327	0.000	0.05	0.0	1.1	SURCHARGED
S24.002	S78	7.587	0.273	0.000	0.44	0.0	2.5	SURCHARGED
S24.003	S81	7.591	0.378	0.000	0.29	0.0	3.6	SURCHARGED
S1.010	S82	7.602	0.448	0.000	0.37	0.0	35.9	SURCHARGED
S26.002	S87	7.571	0.214	0.000	0.09	0.0	2.5	SURCHARGED
S26.003	S92	7.340	0.000	0.000	0.17	0.0	6.8	SURCHARGED*
S26.004	S97	7.260	0.000	0.000	0.21	0.0	6.6	SURCHARGED*

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Summary of Critical Results by Maximum Level (Rank 1) for Perm Paving								
	Water		Flooded		Pipe			
PN	US/MH Level	Surch'd	Volume	Flow / O'flow	Flow			Status
	Name	(m)	Depth (m)	(m³)	Cap.	(l/s)	(l/s)	
S26.005	S102	7.590	0.383	0.000	0.08	0.0	8.2	SURCHARGED
S34.002	S105	7.586	0.314	0.000	0.11	0.0	1.5	SURCHARGED
S26.006	S106	7.176	0.000	0.000	0.07	0.0	11.1	SURCHARGED*
S35.000	S107	7.586	0.064	0.000	0.09	0.0	0.5	SURCHARGED
S36.000	S108	7.584	0.182	0.000	0.04	0.0	0.2	SURCHARGED
S35.001	S109	7.584	0.211	0.000	0.27	0.0	1.6	SURCHARGED
S35.002	S110	7.592	0.408	0.000	0.17	0.0	1.9	SURCHARGED
S26.007	S111	7.597	0.433	0.000	0.12	0.0	13.1	SURCHARGED
S1.011	S112	7.601	0.475	0.000	0.28	0.0	30.7	SURCHARGED
S37.002	S115	7.559	0.356	0.000	0.21	0.0	1.2	SURCHARGED
S38.002	S122	7.558	0.385	0.000	0.33	0.0	4.0	SURCHARGED
S37.003	S125	7.584	0.457	0.000	0.26	0.0	7.9	SURCHARGED
S1.012	S126	7.602	0.515	0.000	0.37	0.0	33.3	SURCHARGED
S1.013	S127	7.602	0.536	0.000	0.21	0.0	27.3	SURCHARGED
S42.002	S132	7.557	0.492	0.000	0.34	0.0	3.5	SURCHARGED
S42.003	S135	7.571	0.526	0.000	0.54	0.0	5.9	SURCHARGED
S45.002	S138	7.544	0.361	0.000	0.23	0.0	1.2	SURCHARGED
S45.003	S139	7.553	0.403	0.000	0.10	0.0	1.3	SURCHARGED
S45.004	S142	7.095	0.000	0.000	0.17	0.0	1.8	SURCHARGED*
S47.002	S146	7.536	0.289	0.000	0.07	0.0	0.7	SURCHARGED
S47.003	S149	7.537	0.307	0.000	0.13	0.0	1.4	SURCHARGED
S47.004	S152	7.206	0.000	0.000	0.15	0.0	1.6	SURCHARGED*
S47.005	S154	7.191	0.000	0.000	0.17	0.0	1.8	SURCHARGED*
S47.006	S157	7.167	0.000	0.000	0.20	0.0	2.2	SURCHARGED*
S47.007	S160	7.151	0.000	0.000	0.22	0.0	2.4	SURCHARGED*
S47.008	S162	7.129	0.000	0.000	0.23	0.0	2.5	SURCHARGED*
S47.009	S165	7.115	0.000	0.000	0.28	0.0	3.1	SURCHARGED*
S45.005	S167	7.565	0.481	0.000	0.57	0.0	16.9	SURCHARGED
S1.014	S168	7.598	0.583	0.000	0.21	0.0	28.2	SURCHARGED
S57.000	S169	7.545	0.067	0.000	0.01	0.0	0.0	SURCHARGED
S58.000	S170	7.544	0.080	0.000	0.00	0.0	0.0	SURCHARGED
S58.001	S171	7.545	0.120	0.000	0.02	0.0	0.1	SURCHARGED
S57.001	S172	7.545	0.130	0.000	0.18	0.0	1.9	SURCHARGED
S57.002	S177	7.386	0.001	0.000	0.95	0.0	10.3	SURCHARGED*
S57.003	S182	7.365	0.000	0.000	0.63	0.0	9.1	SURCHARGED*
S57.004	S185	7.310	0.001	0.000	0.80	0.0	11.6	SURCHARGED*
S64.000	S186	7.548	0.202	0.000	0.02	0.0	0.1	SURCHARGED
S64.001	S187	7.548	0.246	0.000	0.08	0.0	0.4	SURCHARGED
S57.005	S188	7.548	0.338	0.000	0.15	0.0	5.1	SURCHARGED
S57.006	S191	7.139	0.000	0.000	0.25	0.0	9.9	SURCHARGED*
S57.007	S194	7.061	0.000	0.000	0.25	0.0	9.8	SURCHARGED*
S57.008	S197	7.549	0.572	0.000	0.23	0.0	6.9	SURCHARGED
S68.000	S198	7.593	0.563	0.000	0.07	0.0	0.8	SURCHARGED
S68.001	S199	7.593	0.610	0.000	0.06	0.0	1.8	SURCHARGED
S1.015	S200	7.594	0.873	0.000	0.62	0.0	21.0	FLOOD RISK

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