

Project: Land North of Bunting Lane, Old Sarum Wiltshire	Date: 13/10/2023			
	Designed by: FA	Checked by: LJK	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			

 **AREA 1** Type : Catchment Area

Area (ha)

0.02

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

 **AREA 2** Type : Catchment Area

Area (ha)

0.062

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

 **AREA 3** Type : Catchment Area

Area (ha)

0.076

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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AREA 4

Type : Catchment Area

Area (ha)	0.048
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



AREA 5

Type : Catchment Area

Area (ha)	0.009
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100



AREA 6

Type : Catchment Area

Area (ha)	0.017
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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Designed by: FA		Checked by: LJK		Approved By:					

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S1	Manhole	415215.938	133931.866	73.600	1.130	72.470	Circular	1.200
S2	Manhole	415182.903	133915.927	73.240	1.130	72.110	Circular	1.200
S3	Manhole	415174.391	133924.423	73.330	1.280	72.050	Circular	1.200
S4	Manhole	415165.681	133926.804	73.280	1.280	72.000	Circular	1.200
S5	Manhole	415181.298	133937.862	73.680	1.130	72.550	Circular	1.200
S6	Manhole	415130.918	133991.723	74.330	2.150	72.180	Circular	1.200
S7	Manhole	415115.981	133980.207	74.060	2.310	71.750	Circular	1.200
S8	Manhole	415098.964	134025.862	74.380	1.050	73.330	Circular	1.200
S9	Manhole	415091.157	134016.131	74.320	1.130	73.190	Circular	1.200

Name	Lock
S1	None
S2	None
S3	None
S4	None
S5	None
S6	None
S7	None
S8	None
S9	None

Project: Land North of Bunting Lane, Old Sarum Wiltshire	Date: 13/10/2023		
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Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		



 **Pond**

Type : Pond

Dimensions			
Exceedance Level (m)	73.730		
Depth (m)	2.330		
Base Level (m)	71.400		
Freeboard (mm)	600		
Initial Depth (m)	0.000		
Porosity (%)	100		
Average Slope (1:X)	3.344		
Total Volume (m³)	181.504		
Depth (m)	Area (m²)	Volume (m³)	
0.000	21.90	0.000	
2.330	341.80	349.670	

Advanced	
Base Infiltration Rate (m/hr)	0.0457
Side Infiltration Rate (m/hr)	0.0457
Safety Factor	2.0
Perimeter	Circular
Length (m)	40.798
Friction Scheme	Manning's n
n	0.03

Project: Land North of Bunting Lane, Old Sarum Wiltshire		Date: 13/10/2023		
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		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
PN1	36.679	Pipe	101.887		0.6	225	73.600	72.470
PN2	12.026	Pipe	200.441		0.6	225	73.240	72.110
PN3	9.030	Pipe	180.592		0.6	225	73.330	72.050
PN4	73.751	Pipe	199.326		0.6	225	73.680	72.550
PN5	18.861	Pipe	43.862		0.6	225	74.330	72.180
PN6	72.952	Pipe	291.807		0.6	300	73.280	72.000
PN8	12.476	Pipe	89.112		0.6	150	74.380	73.330
PN7	19.856	Pipe	56.732		0.6	300	74.060	71.750
PN9	18.009	Pipe	10.061		0.6	225	74.320	73.190

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock
PN1	73.240	72.110	None
PN2	73.330	72.050	None
PN3	73.280	72.000	None
PN4	74.330	72.180	None
PN5	74.060	71.750	None
PN6	74.060	71.750	None
PN8	74.320	73.190	None
PN7	71.700	71.400	None
PN9	73.730	71.400	None

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FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
AREA 1	FSR: 1 years: +0 %: 15 mins: Winter	0.02	2.5	1.289
AREA 2	FSR: 1 years: +0 %: 15 mins: Winter	0.06	7.7	3.995
AREA 3	FSR: 1 years: +0 %: 15 mins: Winter	0.08	9.5	4.896
AREA 4	FSR: 1 years: +0 %: 15 mins: Winter	0.05	6.0	3.092
AREA 5	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.1	0.568
AREA 6	FSR: 1 years: +0 %: 15 mins: Winter	0.02	2.1	1.095

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
AREA 1	FSR: 30 years: +0 %: 15 mins: Winter	0.02	6.1	3.158
AREA 2	FSR: 30 years: +0 %: 15 mins: Winter	0.06	19.0	9.786
AREA 3	FSR: 30 years: +0 %: 15 mins: Winter	0.08	23.3	12.000
AREA 4	FSR: 30 years: +0 %: 15 mins: Winter	0.05	14.7	7.579
AREA 5	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.7	1.387
AREA 6	FSR: 30 years: +0 %: 15 mins: Winter	0.02	5.2	2.681

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FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
AREA 1	FSR: 100 years: +0 %: 15 mins: Winter	0.02	7.9	4.083
AREA 2	FSR: 100 years: +0 %: 15 mins: Winter	0.06	24.6	12.657
AREA 3	FSR: 100 years: +0 %: 15 mins: Winter	0.08	30.1	15.516
AREA 4	FSR: 100 years: +0 %: 15 mins: Winter	0.05	19.0	9.801
AREA 5	FSR: 100 years: +0 %: 15 mins: Winter	0.01	3.5	1.795
AREA 6	FSR: 100 years: +0 %: 15 mins: Winter	0.02	6.7	3.465

Project:
Land North of Bunting Lane,
Old Sarum
Wiltshire

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Type: Junctions Summary
Storm Phase: Phase

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13/10/2023

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FA

Checked by:
LJK

Approved By:

Company Address:
Simpson TWS
1.08, 60 Grays Inn Road
London, WC1X 8LU





FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1	FSR: 1 years: +0 %: 15 mins: Winter	73.60 0	72.47 0	72.501	0.031	2.5	0.035	0.000	2.3	1.286	OK
S2	FSR: 1 years: +0 %: 15 mins: Winter	73.24 0	72.11 0	72.191	0.081	10.0	0.091	0.000	8.9	5.273	OK
S3	FSR: 1 years: +0 %: 1440 mins: Winter	73.33 0	72.05 0	72.155	0.105	0.7	0.119	0.000	0.8	25.572	OK
S4	FSR: 1 years: +0 %: 1440 mins: Winter	73.28 0	72.00 0	72.155	0.155	0.8	0.175	0.000	0.7	25.637	OK
S5	FSR: 1 years: +0 %: 15 mins: Summer	73.68 0	72.55 0	72.550	0.000	0.0	0.000	0.000	0.0	0.000	OK
S6	FSR: 1 years: +0 %: 15 mins: Winter	74.33 0	72.18 0	72.230	0.050	9.5	0.057	0.000	8.7	4.897	OK
S7	FSR: 1 years: +0 %: 1440 mins: Winter	74.06 0	71.75 0	72.155	0.405	1.9	0.458	0.000	1.8	64.268	Surcharged
S8	FSR: 1 years: +0 %: 15 mins: Winter	74.38 0	73.33 0	73.355	0.025	1.1	0.028	0.000	1.0	0.566	OK
S9	FSR: 1 years: +0 %: 15 mins: Winter	74.32 0	73.19 0	73.210	0.020	3.1	0.022	0.000	3.0	1.662	OK

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1	FSR: 30 years: +0 %: 1440 mins: Winter	73.60 0	72.47 0	72.593	0.123	0.4	0.140	0.000	0.4	12.712	OK
S2	FSR: 30 years: +0 %: 960 mins: Winter	73.24 0	72.11 0	72.593	0.483	2.1	0.547	0.000	1.9	46.194	Surcharged
S3	FSR: 30 years: +0 %: 960 mins: Winter	73.33 0	72.05 0	72.593	0.543	1.9	0.615	0.000	1.8	45.556	Surcharged
S4	FSR: 30 years: +0 %: 960 mins: Winter	73.28 0	72.00 0	72.593	0.593	1.8	0.671	0.000	1.7	43.155	Surcharged
S5	FSR: 30 years: +0 %: 960 mins: Winter	73.68 0	72.55 0	72.593	0.043	0.1	0.049	0.000	0.1	0.382	OK
S6	FSR: 30 years: +0 %: 960 mins: Winter	74.33 0	72.18 0	72.593	0.413	1.9	0.468	0.000	1.8	43.404	Surcharged
S7	FSR: 30 years: +0 %: 960 mins: Winter	74.06 0	71.75 0	72.594	0.844	4.4	0.954	0.000	4.4	108.674	Surcharged
S8	FSR: 30 years: +0 %: 15 mins: Winter	74.38 0	73.33 0	73.369	0.039	2.7	0.045	0.000	2.6	1.385	OK
S9	FSR: 30 years: +0 %: 15 mins: Winter	74.32 0	73.19 0	73.220	0.030	7.8	0.034	0.000	7.6	4.047	OK

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FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1	FSR: 100 years: +0 %: 960 mins: Winter	73.600	72.470	72.779	0.309	0.6	0.350	0.000	0.6	14.584	Surcharged
S2	FSR: 100 years: +0 %: 960 mins: Winter	73.240	72.110	72.779	0.669	2.6	0.757	0.000	2.5	58.282	Surcharged
S3	FSR: 100 years: +0 %: 960 mins: Winter	73.330	72.050	72.779	0.729	2.5	0.825	0.000	2.5	57.395	Surcharged
S4	FSR: 100 years: +0 %: 960 mins: Winter	73.280	72.000	72.779	0.779	2.5	0.881	0.000	2.4	54.552	Surcharged
S5	FSR: 100 years: +0 %: 960 mins: Winter	73.680	72.550	72.779	0.229	0.3	0.259	0.000	0.0	1.180	Surcharged
S6	FSR: 100 years: +0 %: 960 mins: Winter	74.330	72.180	72.779	0.599	2.4	0.678	0.000	2.2	54.633	Surcharged
S7	FSR: 100 years: +0 %: 960 mins: Winter	74.060	71.750	72.779	1.029	6.1	1.164	0.000	6.9	137.822	Surcharged
S8	FSR: 100 years: +0 %: 15 mins: Winter	74.380	73.330	73.375	0.045	3.5	0.051	0.000	3.3	1.792	OK
S9	FSR: 100 years: +0 %: 30 mins: Summer	74.320	73.190	73.225	0.035	10.0	0.040	0.000	9.8	6.295	OK

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		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FSR: 1 years: +0 %: 1440 mins: Winter	72.155	72.155	0.755	0.755	2.0	37.379	0.000	65.021	0.0	0.000	79.406	OK

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		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FSR: 30 years: +0 %: 960 mins: Winter	72.593	72.593	1.193	1.193	5.0	85.521	0.000	77.042	0.0	0.000	52.882	OK

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FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FSR: 100 years: +0 %: 960 mins: Winter	72.779	72.779	1.379	1.379	7.7	113.629	0.000	92.134	0.0	0.000	37.396	OK

Project:
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Wiltshire

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Storm Phase: Phase

Date:
13/10/2023

Designed by:
FA

Checked by:
LJK

Approved By:

Company Address:
Simpson TWS
1.08, 60 Grays Inn Road
London, WC1X 8LU





FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
PN1	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S1	S2	73.600	72.501	0.056	1.286	0.3	0.04	2.3	OK
PN2	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S2	S3	73.240	72.191	0.078	5.273	0.7	0.24	8.9	OK
PN3	FSR: 1 years: +0 %: 30 mins: Summer	Pipe	S3	S4	73.330	72.125	0.070	6.246	0.8	0.22	8.3	OK
PN4	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	S5	S6	73.680	72.550	0.025	0.000	0.0	0	0.0	OK
PN5	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S6	S7	74.330	72.230	0.061	4.897	1.0	0.11	8.7	OK
PN6	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S4	S7	73.280	72.075	0.074	5.228	0.6	0.13	8.7	OK
PN8	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S8	S9	74.380	73.355	0.022	0.566	0.6	0.05	1.0	OK
PN7	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S7	Pond	74.060	71.824	0.226	12.764	0.9	0.14	21.3	OK
PN9	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	S9	Pond	74.320	73.210	0.202	1.662	0.3	0.02	3.0	OK

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
PN1	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S1	S2	73.600	72.519	0.095	3.155	0.4	0.11	5.7	OK
PN2	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S2	S3	73.240	72.251	0.134	12.927	0.9	0.61	22.4	OK
PN3	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S3	S4	73.330	72.178	0.121	12.880	1.0	0.55	21.3	OK
PN4	FSR: 30 years: +0 %: 960 mins: Winter	Pipe	S5	S6	73.680	72.593	0.225	0.001	0.0	0	0.1	OK
PN5	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S6	S7	74.330	72.261	0.171	11.996	1.2	0.27	21.5	OK
PN6	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S4	S7	73.280	72.117	0.202	12.246	0.7	0.33	21.3	OK
PN8	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S8	S9	74.380	73.369	0.035	1.385	0.8	0.14	2.6	OK
PN7	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S7	Pond	74.060	72.075	0.300	27.586	1.1	0.34	50.2	Surcharged
PN9	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	S9	Pond	74.320	73.220	0.225	4.047	0.3	0.05	7.6	OK

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FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
PN1	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S1	S2	73.600	72.526	0.113	4.085	0.4	0.14	7.4	OK
PN2	FSR: 100 years: +0 %: 30 mins: Summer	Pipe	S2	S3	73.240	72.280	0.176	19.351	1.0	0.8	29.2	OK
PN3	FSR: 100 years: +0 %: 30 mins: Summer	Pipe	S3	S4	73.330	72.256	0.225	18.732	1.1	0.73	28.0	OK
PN4	FSR: 100 years: +0 %: 2160 mins: Summer	Pipe	S5	S6	73.680	72.730	0.225	0.000	0.0	0.01	0.3	OK
PN5	FSR: 100 years: +0 %: 30 mins: Summer	Pipe	S6	S7	74.330	72.275	0.225	18.100	1.3	0.36	28.1	OK
PN6	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S4	S7	73.280	72.179	0.300	14.240	0.8	0.41	26.2	OK
PN8	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S8	S9	74.380	73.375	0.040	1.792	0.9	0.18	3.3	OK
PN7	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S7	Pond	74.060	72.177	0.300	34.685	1.1	0.44	65.4	Surcharged
PN9	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	S9	Pond	74.320	73.225	0.225	5.233	0.4	0.06	9.9	OK

Project: Land North of Bunting Land Old Sarum Wiltshire	Date: 13/10/2023	Designed by: FA		Checked by: LJK	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU				



Private Driveway

Type : Catchment Area

Area (ha)	0.034
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Land North of Bunting Land Old Sarum Wiltshire	Date: 13/10/2023			
	Designed by: FA	Checked by: LJK	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



Permeable Driveway

Type : Porous Paving

Dimensions

Exceedance Level (m)	73.900
Depth (m)	0.500
Base Level (m)	73.400
Paving Layer Depth (mm)	240
Membrane Percolation (m/hr)	1.0
Porosity (%)	30
Length (m)	30.500
Long. Slope (1:X)	150.00
Width (m)	10.000
Total Volume (m³)	24.118

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Private Driveway
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0457
Side Infiltration Rate (m/hr)	0.0457
Safety Factor	2.0
Conductivity (m/hr)	50.0

Project: Land North of Bunting Land Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
	Report Details: Type: Inflows Summary Storm Phase: Phase		
Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 1 years: +0 %: 15 mins: Winter	0.03	4.1	1.894

Project: Land North of Bunting Land Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 30 years: +0 %: 15 mins: Winter	0.03	10.0	4.645

Project: Land North of Bunting Land Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 100 years: +0 %: 15 mins: Winter	0.03	13.0	6.005

Project: Land North of Bunting Land Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
	Report Details: Type: Inflows Summary Storm Phase: Phase		
Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 100 years: +45 %: 15 mins: Winter	0.03	18.8	8.710

Project: Land North of Bunting Land Old Sarum Wiltshire		Date: 13/10/2023			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: FA	Checked by: LJK		Approved By:
		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 1 years: +0 %: 30 mins: Winter	73.647	73.400	0.044	0.000	2.7	1.284	0.000	2.512	0.0	0.000	94.676	OK

Project: Land North of Bunting Land Old Sarum Wiltshire		Date: 13/10/2023			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: FA	Checked by: LJK		Approved By:
		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 30 years: +0 %: 60 mins: Winter	73.671	73.482	0.067	0.082	5.1	4.128	0.000	7.732	0.0	0.000	82.883	OK

Project: Land North of Bunting Land Old Sarum Wiltshire		Date: 13/10/2023			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: FA	Checked by: LJK	Approved By:	
		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 100 years: +0 %: 60 mins: Winter	73.684	73.532	0.080	0.132	6.7	5.991	0.000	9.115	0.0	0.000	75.160	OK

Project: Land North of Bunting Land Old Sarum Wiltshire		Date: 13/10/2023			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: FA	Checked by: LJK	Approved By:	
		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By:
Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 100 years: +45 %: 60 mins: Winter	73.707	73.601	0.103	0.201	9.7	9.922	0.000	10.859	0.0	0.000	58.859	OK

Project: Land North of Bunting Lane Old Sarum Wiltshire	Date: 13/10/2023	Designed by: FA		Checked by: LJK	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU				



Private Driveway

Type : Catchment Area

Area (ha)	0.007
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Project: Land North of Bunting Lane Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		





Permeable Driveway

Type : Porous Paving

Dimensions	
Exceedance Level (m)	73.280
Depth (m)	0.500
Base Level (m)	72.780
Paving Layer Depth (mm)	240
Membrane Percolation (m/hr)	1.0
Porosity (%)	30
Length (m)	10.500
Long. Slope (1:X)	150.00
Width (m)	5.800
Total Volume (m³)	4.880

Under Drain	
Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets	
Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	Private Driveway
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced	
Base Infiltration Rate (m/hr)	0.0457
Side Infiltration Rate (m/hr)	0.0457
Safety Factor	2.0
Conductivity (m/hr)	50.0

Project: Land North of Bunting Lane Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.369

Project: Land North of Bunting Lane Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.0	0.905

Project: Land North of Bunting Lane Old Sarum Wiltshire	Date: 13/10/2023		
	Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Private Driveway	FSR: 100 years: +0 %: 15 mins: Winter	0.01	2.5	1.166

Project: Land North of Bunting Lane Old Sarum Wiltshire		Date: 13/10/2023			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: FA	Checked by: LJK	Approved By:	
		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 1 years: +0 %: 15 mins: Winter	72.868	72.780	0.018	0.000	0.8	0.172	0.000	0.368	0.0	0.000	96.483	OK

Project: Land North of Bunting Lane Old Sarum Wiltshire		Date: 13/10/2023		
		Designed by: FA	Checked by: LJK	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU		





FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 30 years: +0 %: 30 mins: Winter	72.883	72.844	0.033	0.064	1.3	0.672	0.000	1.024	0.0	0.000	86.235	OK

Project: Land North of Bunting Lane Old Sarum Wiltshire		Date: 13/10/2023			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Designed by: FA	Checked by: LJK		Approved By:
Company Address: Simpson TWS 1.08, 60 Grays Inn Road London, WC1X 8LU					



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max.
Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Permeable Driveway	FSR: 100 years: +0 %: 60 mins: Winter	72.883	72.870	0.033	0.090	1.3	1.005	0.000	1.966	0.0	0.000	79.410	OK