

Notes

The Historic Flooding Map shows the recorded incidents and flood numbers, provided by Arroyo District Council, West Lurupex County Council, Southern Water and Environment Agency. Historical flood extent was obtained from the Environment Agency.

Flooding incidents provided have been categorised as based upon the details provided in the records. Unknown flood zones could not be determined from the information provided, and the extent could be from a number of sources.

Please note that not all historical records may be shown on this map, and that it is therefore advised you contact Arroyo District Council for updated information post 2015.

Key Plan

Flooding incidents provided have been categorized based upon the details provided in the records. Unknown flood points could not be determined from the information provided, and therefore could be from a number of sources.

A map of Kent, England, with a grid overlay. A thick black line traces a path through the grid, starting from the bottom left and moving towards the top right. The path is labeled 'Key Plan' in a stylized font.

Legend

- Arun District L.F.R.A. boundary
- Tidal
- Historic flood outline
- Surface Water

Source of flooding

- Fluvial
- Unknown
- Coastal

0 0.5 1 1.5 2 km

REF	Date	Comments
A	June 2016	-
B		
C		

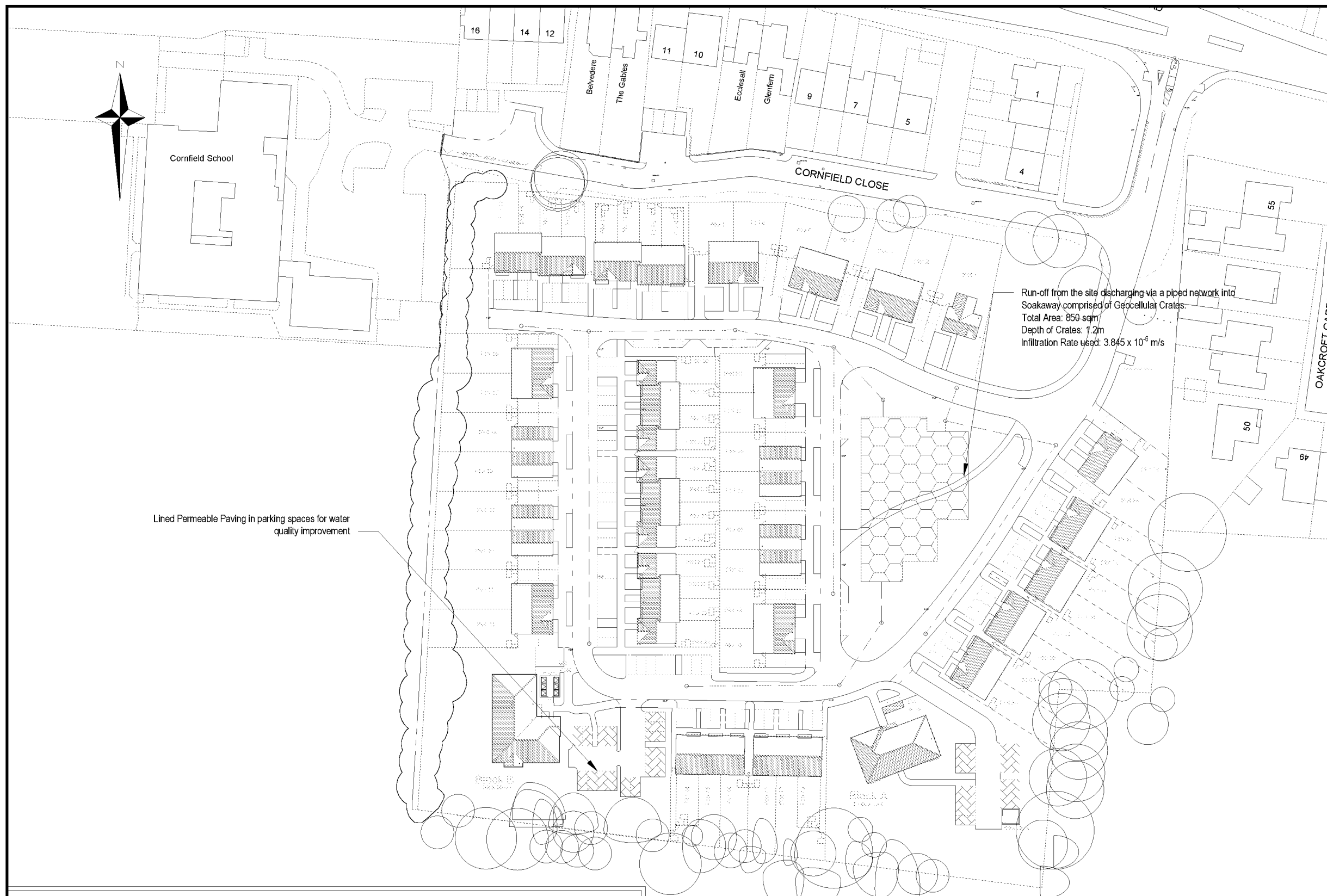
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Sheet No. 26 of 46	Index number: ADC 25
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Appendix I

Indicative Surface Water Drainage Strategy



NOTES

1. Dimensions not to be scaled.
2. Site layout from architect's layout. Drawing no. P0156 - 2000 00.

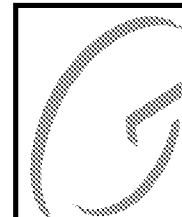
KEY

- Approximate Site Boundary
- Permeable Paving
- Geocellular Crates
- Proposed Surface Water Sewer

Lined Permeable Paving in parking spaces for water quality improvement

Run-off from the site discharging via a piped network into Soakaway comprised of Geocellular Crates.
Total Area: 850 sqm
Depth of Crates: 1.2m
Infiltration Rate used: 3.845×10^{-6} m/s

P3	Updated Architects Layout	09.11.2018 SM	-
P2	Revised as per Client Comments	19.10.2018 SM	CS
P1	Draft for Comment	21.09.2018 SM	CS
Rev.	Description	Date	Chkd



Glanville

Cornerstone House
62 Foxhall Road, Didcot
Oxon, OX11 7AD

Tel: (01235) 515550 Fax: (01235) 817799
postbox@glanvillegroup.com www.glanvillegroup.com

Client :

Thakeham Client Ltd

Project :

Land at Cornfield Close, Wick
Littlehampton
BN17 6HY

Title :

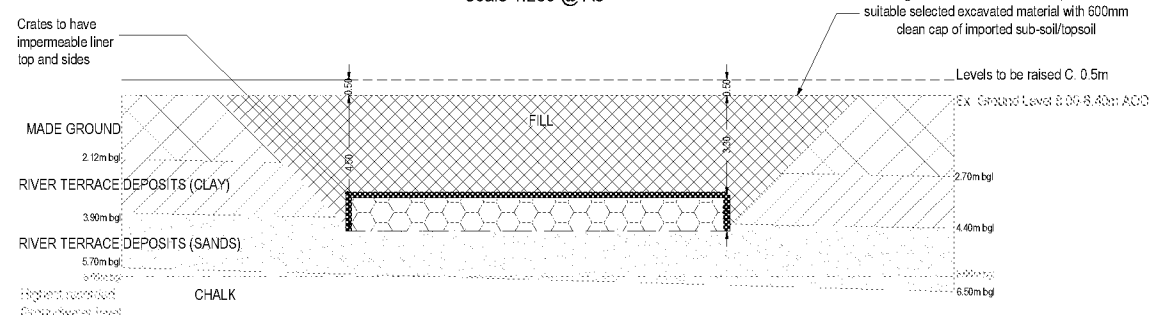
Indicative Surface Water Drainage Strategy

Project Engineer :	C. Salt	Scale :	1:1000 @ A3
Project Director :	J. Birch	Date :	November 2018
Status :	PRELIMINARY		

Drawing No. CV8171223 - SK04

Rev. P3

Proposed Soakaway Arrangement
Scale 1:250 @ A3



Appendix J
MicroDrainage Calculations

Glanville Consultants		Page 1			
Cornerstone House 62 Foxhall Road Didcot OX11 7AD					
Date 19/10/2018 14:25	Designed by SMcNair				
File 8171223 - Crate Calcula...	Checked by				
Innovyze		Source Control 2018.1			
<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	96.741	0.241	1.6	194.6	O K
30 min Summer	96.823	0.323	1.6	260.9	O K
60 min Summer	96.912	0.412	1.6	333.1	O K
120 min Summer	97.006	0.506	1.6	408.7	O K
180 min Summer	97.060	0.560	1.6	452.2	O K
240 min Summer	97.096	0.596	1.6	481.3	O K
360 min Summer	97.147	0.647	1.6	522.4	O K
480 min Summer	97.183	0.683	1.6	551.3	O K
600 min Summer	97.209	0.709	1.6	572.6	O K
720 min Summer	97.229	0.729	1.6	589.0	O K
960 min Summer	97.258	0.758	1.6	612.0	O K
1440 min Summer	97.287	0.787	1.6	635.7	O K
2160 min Summer	97.296	0.796	1.6	642.9	O K
2880 min Summer	97.284	0.784	1.6	633.3	O K
4320 min Summer	97.247	0.747	1.6	603.4	O K
5760 min Summer	97.213	0.713	1.6	575.8	O K
7200 min Summer	97.182	0.682	1.6	550.3	O K
8640 min Summer	97.153	0.653	1.6	527.2	O K
10080 min Summer	97.125	0.625	1.6	504.7	O K
15 min Winter	96.770	0.270	1.6	218.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	126.074	0.0	23		
30 min Summer	84.745	0.0	38		
60 min Summer	54.368	0.0	68		
120 min Summer	33.674	0.0	128		
180 min Summer	25.065	0.0	188		
240 min Summer	20.180	0.0	246		
360 min Summer	14.839	0.0	366		
480 min Summer	11.923	0.0	486		
600 min Summer	10.054	0.0	606		
720 min Summer	8.741	0.0	726		
960 min Summer	7.003	0.0	964		
1440 min Summer	5.114	0.0	1444		
2160 min Summer	3.727	0.0	2160		
2880 min Summer	2.973	0.0	2880		
4320 min Summer	2.159	0.0	3544		
5760 min Summer	1.718	0.0	4264		
7200 min Summer	1.438	0.0	5048		
8640 min Summer	1.245	0.0	5880		
10080 min Summer	1.102	0.0	6664		
15 min Winter	126.074	0.0	23		
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Cornerstone House 62 Foxhall Road Didcot OX11 7AD					
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<u>Summary of Results for 100 year Return Period (+40%)</u>					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	96.862	0.362	1.6	292.6	O K
60 min Winter	96.963	0.463	1.6	373.6	O K
120 min Winter	97.068	0.568	1.6	459.0	O K
180 min Winter	97.130	0.630	1.6	508.5	O K
240 min Winter	97.171	0.671	1.6	541.8	O K
360 min Winter	97.230	0.730	1.6	589.2	O K
480 min Winter	97.271	0.771	1.6	622.9	O K
600 min Winter	97.303	0.803	1.6	648.2	O K
720 min Winter	97.327	0.827	1.6	668.0	O K
960 min Winter	97.363	0.863	1.6	696.7	O K
1440 min Winter	97.403	0.903	1.6	729.0	O K
2160 min Winter	97.424	0.924	1.6	743.7	O K
2880 min Winter	97.421	0.921	1.6	743.5	O K
4320 min Winter	97.383	0.883	1.6	713.0	O K
5760 min Winter	97.336	0.836	1.6	675.0	O K
7200 min Winter	97.294	0.794	1.6	640.8	O K
8640 min Winter	97.252	0.752	1.6	607.6	O K
10080 min Winter	97.211	0.711	1.6	574.1	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	84.745	0.0	37		
60 min Winter	54.368	0.0	68		
120 min Winter	33.674	0.0	126		
180 min Winter	25.065	0.0	184		
240 min Winter	20.180	0.0	244		
360 min Winter	14.839	0.0	362		
480 min Winter	11.923	0.0	480		
600 min Winter	10.054	0.0	598		
720 min Winter	8.741	0.0	716		
960 min Winter	7.003	0.0	950		
1440 min Winter	5.114	0.0	1416		
2160 min Winter	3.727	0.0	2100		
2880 min Winter	2.973	0.0	2772		
4320 min Winter	2.159	0.0	4060		
5760 min Winter	1.718	0.0	4560		
7200 min Winter	1.438	0.0	5472		
8640 min Winter	1.245	0.0	6400		
10080 min Winter	1.102	0.0	7264		
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Glanville Consultants		Page 3
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Date 19/10/2018 14:25 File 8171223 - Crate Calcula...	Designed by SMcNair Checked by	
Innovyze Source Control 2018.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.200	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.830

Time (mins)	Area (ha)	Time (mins)	Area (ha)
From: 0	To: 4 0.415	From: 4	To: 8 0.415

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Glanville Consultants		Page 4
Cornerstone House 62 Foxhall Road Didcot OX11 7AD		
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Innovyze	Source Control 2018.1	

Model Details

Storage is Online Cover Level (m) 100.000

Cellular Storage Structure

Invert Level (m) 96.500 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.01384 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	850.0	850.0	1.300	0.0	1078.0
1.200	850.0	1078.0			

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<u>Summary of Results for 10 year Return Period</u> Half Drain Time : 1428 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>96.604</td><td>0.104</td><td>1.6</td><td>84.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>96.637</td><td>0.137</td><td>1.6</td><td>110.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>96.672</td><td>0.172</td><td>1.6</td><td>138.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>96.709</td><td>0.209</td><td>1.6</td><td>168.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>96.730</td><td>0.230</td><td>1.6</td><td>185.8</td><td>O K</td></tr><tr><td>240 min Summer</td><td>96.745</td><td>0.245</td><td>1.6</td><td>197.7</td><td>O K</td></tr><tr><td>360 min Summer</td><td>96.764</td><td>0.264</td><td>1.6</td><td>213.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>96.777</td><td>0.277</td><td>1.6</td><td>223.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>96.785</td><td>0.285</td><td>1.6</td><td>230.2</td><td>O K</td></tr><tr><td>720 min Summer</td><td>96.790</td><td>0.290</td><td>1.6</td><td>234.5</td><td>O K</td></tr><tr><td>960 min Summer</td><td>96.795</td><td>0.295</td><td>1.6</td><td>238.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>96.796</td><td>0.296</td><td>1.6</td><td>238.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>96.791</td><td>0.291</td><td>1.6</td><td>234.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>96.783</td><td>0.283</td><td>1.6</td><td>228.2</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>96.763</td><td>0.263</td><td>1.6</td><td>212.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>96.743</td><td>0.243</td><td>1.6</td><td>195.9</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>96.722</td><td>0.222</td><td>1.6</td><td>179.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>96.702</td><td>0.202</td><td>1.6</td><td>163.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>96.683</td><td>0.183</td><td>1.6</td><td>147.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>96.617</td><td>0.117</td><td>1.6</td><td>94.4</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>55.026</td><td>0.0</td><td>23</td></tr><tr><td>30 min Summer</td><td>36.308</td><td>0.0</td><td>37</td></tr><tr><td>60 min Summer</td><td>23.034</td><td>0.0</td><td>66</td></tr><tr><td>120 min Summer</td><td>14.258</td><td>0.0</td><td>126</td></tr><tr><td>180 min Summer</td><td>10.683</td><td>0.0</td><td>186</td></tr><tr><td>240 min Summer</td><td>8.678</td><td>0.0</td><td>246</td></tr><tr><td>360 min Summer</td><td>6.463</td><td>0.0</td><td>364</td></tr><tr><td>480 min Summer</td><td>5.239</td><td>0.0</td><td>484</td></tr><tr><td>600 min Summer</td><td>4.450</td><td>0.0</td><td>602</td></tr><tr><td>720 min Summer</td><td>3.893</td><td>0.0</td><td>722</td></tr><tr><td>960 min Summer</td><td>3.152</td><td>0.0</td><td>960</td></tr><tr><td>1440 min Summer</td><td>2.338</td><td>0.0</td><td>1228</td></tr><tr><td>2160 min Summer</td><td>1.733</td><td>0.0</td><td>1604</td></tr><tr><td>2880 min Summer</td><td>1.401</td><td>0.0</td><td>2016</td></tr><tr><td>4320 min Summer</td><td>1.037</td><td>0.0</td><td>2816</td></tr><tr><td>5760 min Summer</td><td>0.837</td><td>0.0</td><td>3640</td></tr><tr><td>7200 min Summer</td><td>0.709</td><td>0.0</td><td>4464</td></tr><tr><td>8640 min Summer</td><td>0.620</td><td>0.0</td><td>5192</td></tr><tr><td>10080 min Summer</td><td>0.553</td><td>0.0</td><td>5960</td></tr><tr><td>15 min Winter</td><td>55.026</td><td>0.0</td><td>22</td></tr></tbody></table>							Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	96.604	0.104	1.6	84.2	O K	30 min 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Summer	10.683	0.0	186	240 min Summer	8.678	0.0	246	360 min Summer	6.463	0.0	364	480 min Summer	5.239	0.0	484	600 min Summer	4.450	0.0	602	720 min Summer	3.893	0.0	722	960 min Summer	3.152	0.0	960	1440 min Summer	2.338	0.0	1228	2160 min Summer	1.733	0.0	1604	2880 min Summer	1.401	0.0	2016	4320 min Summer	1.037	0.0	2816	5760 min Summer	0.837	0.0	3640	7200 min Summer	0.709	0.0	4464	8640 min Summer	0.620	0.0	5192	10080 min Summer	0.553	0.0	5960	15 min Winter	55.026	0.0	22
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1440 min Summer	2.338	0.0	1228																																																																																																																																																																																																																					
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4320 min Summer	1.037	0.0	2816																																																																																																																																																																																																																					
5760 min Summer	0.837	0.0	3640																																																																																																																																																																																																																					
7200 min Summer	0.709	0.0	4464																																																																																																																																																																																																																					
8640 min Summer	0.620	0.0	5192																																																																																																																																																																																																																					
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15 min Winter	55.026	0.0	22																																																																																																																																																																																																																					
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Glanville Consultants					Page 2	
Cornerstone House 62 Foxhall Road Didcot OX11 7AD						
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File 8171223 - Crate Calcula...		Checked by				
Innovyze			Source Control 2018.1			
<u>Summary of Results for 10 year Return Period</u>						
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	
30 min Winter	96.654	0.154		1.6 124.1	O K	
60 min Winter	96.693	0.193		1.6 155.9	O K	
120 min Winter	96.735	0.235		1.6 189.6	O K	
180 min Winter	96.759	0.259		1.6 209.5	O K	
240 min Winter	96.777	0.277		1.6 223.4	O K	
360 min Winter	96.800	0.300		1.6 242.3	O K	
480 min Winter	96.815	0.315		1.6 254.6	O K	
600 min Winter	96.826	0.326		1.6 263.1	O K	
720 min Winter	96.833	0.333		1.6 269.0	O K	
960 min Winter	96.842	0.342		1.6 275.9	O K	
1440 min Winter	96.845	0.345		1.6 278.5	O K	
2160 min Winter	96.836	0.336		1.6 271.3	O K	
2880 min Winter	96.825	0.325		1.6 262.1	O K	
4320 min Winter	96.794	0.294		1.6 237.7	O K	
5760 min Winter	96.761	0.261		1.6 211.0	O K	
7200 min Winter	96.728	0.228		1.6 184.3	O K	
8640 min Winter	96.697	0.197		1.6 158.9	O K	
10080 min Winter	96.667	0.167		1.6 135.2	O K	
Storm Event		Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter		36.308	0.0	37		
60 min Winter		23.034	0.0	66		
120 min Winter		14.258	0.0	124		
180 min Winter		10.683	0.0	182		
240 min Winter		8.678	0.0	242		
360 min Winter		6.463	0.0	358		
480 min Winter		5.239	0.0	474		
600 min Winter		4.450	0.0	590		
720 min Winter		3.893	0.0	704		
960 min Winter		3.152	0.0	932		
1440 min Winter		2.338	0.0	1308		
2160 min Winter		1.733	0.0	1728		
2880 min Winter		1.401	0.0	2188		
4320 min Winter		1.037	0.0	3108		
5760 min Winter		0.837	0.0	3976		
7200 min Winter		0.709	0.0	4824		
8640 min Winter		0.620	0.0	5616		
10080 min Winter		0.553	0.0	6352		
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Cornerstone House 62 Foxhall Road Didcot OX11 7AD																																						
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<u>Rainfall Details</u> <table> <tr> <td>Rainfall Model</td> <td>FSR</td> <td>Winter Storms</td> <td>Yes</td> </tr> <tr> <td>Return Period (years)</td> <td>10</td> <td>Cv (Summer)</td> <td>0.750</td> </tr> <tr> <td>Region</td> <td>England and Wales</td> <td>Cv (Winter)</td> <td>0.840</td> </tr> <tr> <td>M5-60 (mm)</td> <td>19.200</td> <td>Shortest Storm (mins)</td> <td>15</td> </tr> <tr> <td>Ratio R</td> <td>0.350</td> <td>Longest Storm (mins)</td> <td>10080</td> </tr> <tr> <td>Summer Storms</td> <td>Yes</td> <td>Climate Change %</td> <td>+0</td> </tr> </table> <u>Time Area Diagram</u> Total Area (ha) 0.830 <table> <thead> <tr> <th>Time (mins)</th> <th>Area</th> <th>Time (mins)</th> <th>Area</th> </tr> <tr> <th>From: To:</th> <th>(ha)</th> <th>From: To:</th> <th>(ha)</th> </tr> </thead> <tbody> <tr> <td>0 4</td> <td>0.415</td> <td>4 8</td> <td>0.415</td> </tr> </tbody> </table>			Rainfall Model	FSR	Winter Storms	Yes	Return Period (years)	10	Cv (Summer)	0.750	Region	England and Wales	Cv (Winter)	0.840	M5-60 (mm)	19.200	Shortest Storm (mins)	15	Ratio R	0.350	Longest Storm (mins)	10080	Summer Storms	Yes	Climate Change %	+0	Time (mins)	Area	Time (mins)	Area	From: To:	(ha)	From: To:	(ha)	0 4	0.415	4 8	0.415
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Glanville Consultants		Page 4																		
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Innovyze	Source Control 2018.1																			
<u>Model Details</u> Storage is Online Cover Level (m) 100.000 <u>Cellular Storage Structure</u> Invert Level (m) 96.500 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.01384 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.00000 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> <th>Depth (m)</th> <th>Area (m²)</th> <th>Inf. Area (m²)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>850.0</td> <td>850.0</td> <td>1.300</td> <td>0.0</td> <td>1078.0</td> </tr> <tr> <td>1.200</td> <td>850.0</td> <td>1078.0</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	850.0	850.0	1.300	0.0	1078.0	1.200	850.0	1078.0			
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)															
0.000	850.0	850.0	1.300	0.0	1078.0															
1.200	850.0	1078.0																		
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Appendix K
Environment Agency Correspondence

From: Deacon, Simon <simon@deacon.co.uk>
Sent: 22 March 2018 09:10
To: 'Glyn Evans'
Cc: Mark Wild; John Birch
Subject: RE: Cornfield Close, Littlehampton.

Categories: Filed by Newforma

Hi Glyn, thanks for summarising our conversation. Yes we would agree to the outline proposal set out below. In addition, appropriate pollution control must be included so that the discharge quality of surface water does not impact groundwater as well.

Regards, Simon

Simon Deacon BSc MSc CGeol FGS
Technical Specialist
Groundwater, Hydrology & Contaminated Land
Solent South Downs Area



Environment Agency | Chichester Office | Portfield Depot | Oving Road | Chichester | West Sussex | PO20 2AG



See our new Twitter account - [@DTIX101](#)                            

80% 9 100XIII r IP! Gt Hh=4 LixXIXpD_o IXeIXTB =LH↑ lXIXr dGXIEXLIE rtt II(5xLEtoσ



ChaMP for Water catchment partnership

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[illegible]



Cornerstone House, 62 Foxhall Road,
Didcot, Oxon OX11 7AD



- Structural Engineering
- Civil Engineering
- Transport & Highways
- Geomatics (Land Surveying)
- Building Surveying
- BIM