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|-----------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------|---------------|
| Section: <b>Civils</b>                  |                                            |  <div> <b>KAZYS NARBUTAS</b><br/> <b>CONSULTING</b><br/> <i>Civil Engineering Consultant</i><br/> <small>Roughton, A2 Omega Park, Electron Way, Changers Ford. SO53 4SE<br/> Telephone: 023 8027 8643 Email: kazys.n@knc.email</small> </div> |      |                |               |
| Project: <b>Hook Lane, Aldingbourne</b> |                                            |                                                                                                                                                                                                                                                                                                                               |      |                |               |
| Client : <b>DOMUSEA</b>                 |                                            |                                                                                                                                                                                                                                                                                                                               |      |                |               |
| Date: <b>September 2019</b>             | Job No. <b>KNC1932</b>                     | Page No. <b>1</b>                                                                                                                                                                                                                                                                                                             | Chk: | By: <b>KHN</b> | Rev: <b>A</b> |
| Reference                               | Calculation <b>Existing Site Discharge</b> |                                                                                                                                                                                                                                                                                                                               |      |                | Result        |

## Existing Green Field Run off from IH124

Existing site area 0.465Ha

Q<sub>bar</sub> discharge from 50Ha site = 192.8lits/sec (see MicroDrainage IH124 results)  
Applying ratio of existing site to this discharge:

$$0.465/50 \times 192.8 = 1.8 \text{ lit/sec; assume practical discharge } 2.0\text{lit/sec}$$

Take 2.0 lits/sec limiting discharge through new surface water drainage network.  
Proposed impermeable area draining through attenuated discharge = 0.21Ha  
Volume of storage required for 1 in 100yr storm event + 40% addition  
for climate change = 120.6 cu.m.  
Attenuation tank 10.0 x 6.5 x 2.0m deep