

Foul Water Drainage Field Percolation Test and Groundwater Assessment

Test to be carried out at least **3 times** in **two holes**

Job number:	289327
Date:	23-Nov-21
Customer:	Sheehan Holdings Ltd
Address:	Fir View Caravan Park
	Welshpool
	SY21 0LT

Population (plant):	250
Plant Type	STP
Planned Invert Depth	M

Weather conditions	Dry+Frost
Ground conditions	Stoney Clay
Engineers on Site	Mike Wood

Standing Groundwater Assessment	Hole Depth	2	m
	Hole Area	0.6 x 1.9=1.14	m ²
	Estimated Groundwater Table Depth Below ground	>2	m
	Estimated Groundwater Table Depth Below Invert		m

Percolation Test

	Time	Time	Drop	Time of Drop	Time to Drop
Hole Three	Start	Finish	mm	Sec	Sec/mm
1	8:33	9:25	150	3,120	21
2	10:00	11:02	150	3,720	25
3	11:54	13:04	150	4,200	28
Hole Four					
1	8:33	9:29	150	3,360	22
2	10:05	11:11	150	3,960	26
3	11:55	13:12	150	4,620	31
Hole Five					
1	8:34	9:53	150	4,740	32
2	10:07	11:31	150	5,040	34
3	12:01	13:29	150	5,280	35
Hole Six					
1	8:35	9:27	150	3,120	21
2	9:57	10:57	150	3,600	24
3	11:25	12:38	150	4,380	29
				Average	27.3

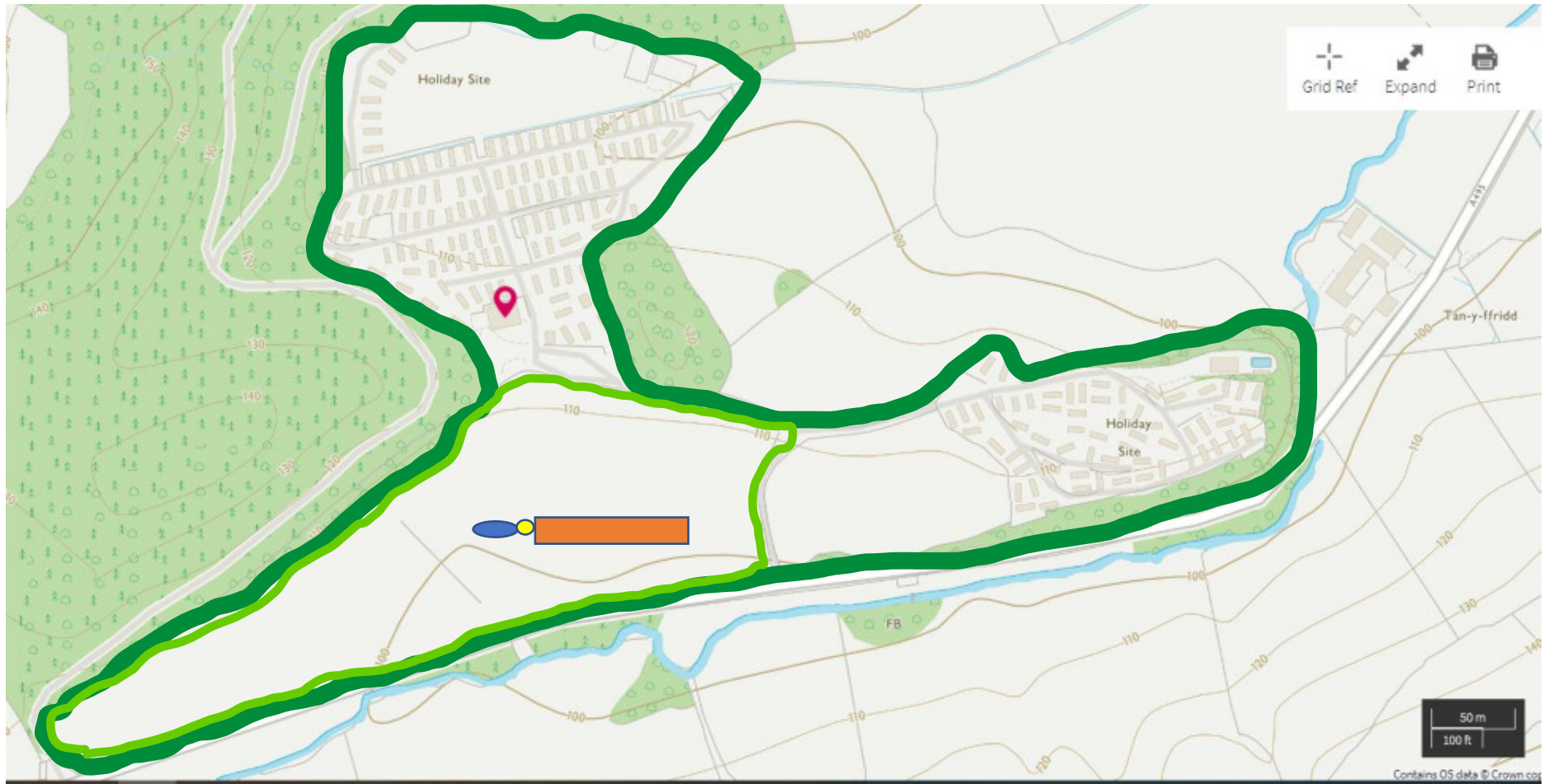
Average time of drop V_p 28 sec/mm
 $V_p > 12$ and < 100 sec/mm Yes






Area of infiltration field for Septic Tank installed to BS6297 $V_p \times 0.25 \times$ Number of People N/A m²

Area of infiltration field for Sewage Treatment Plant installed to BS6297 $V_p \times 0.2 \times$ Number of people 1400 m²

Michael Attwood

Fir View Caravan Park – Sheehan Holdings Ltd



-  Site boundary
-  Proposed new caravan site location where new discharge will take place
-  Proposed location of new sewage treatment plant
-  Proposed new drainage field location
-  Proposed new sampling point

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Holiday Park

**DRAWING 1 Groundwater Monitoring
Borehole Locations**

KEY



Wider Site Boundary



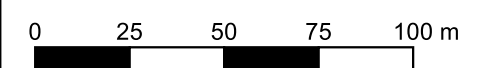
Proposed Development boundary



Monitoring Borehole Position



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Date	By	Paper	Scale	Rev
05 2022	SG	A3	1:2000	1

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**DRAWING 2 Topographic Contours from
PM Consulting Spot Heights**

KEY

-  Wider Site Boundary
-  Proposed Development boundary
-  Topographic Contours (mAOD)








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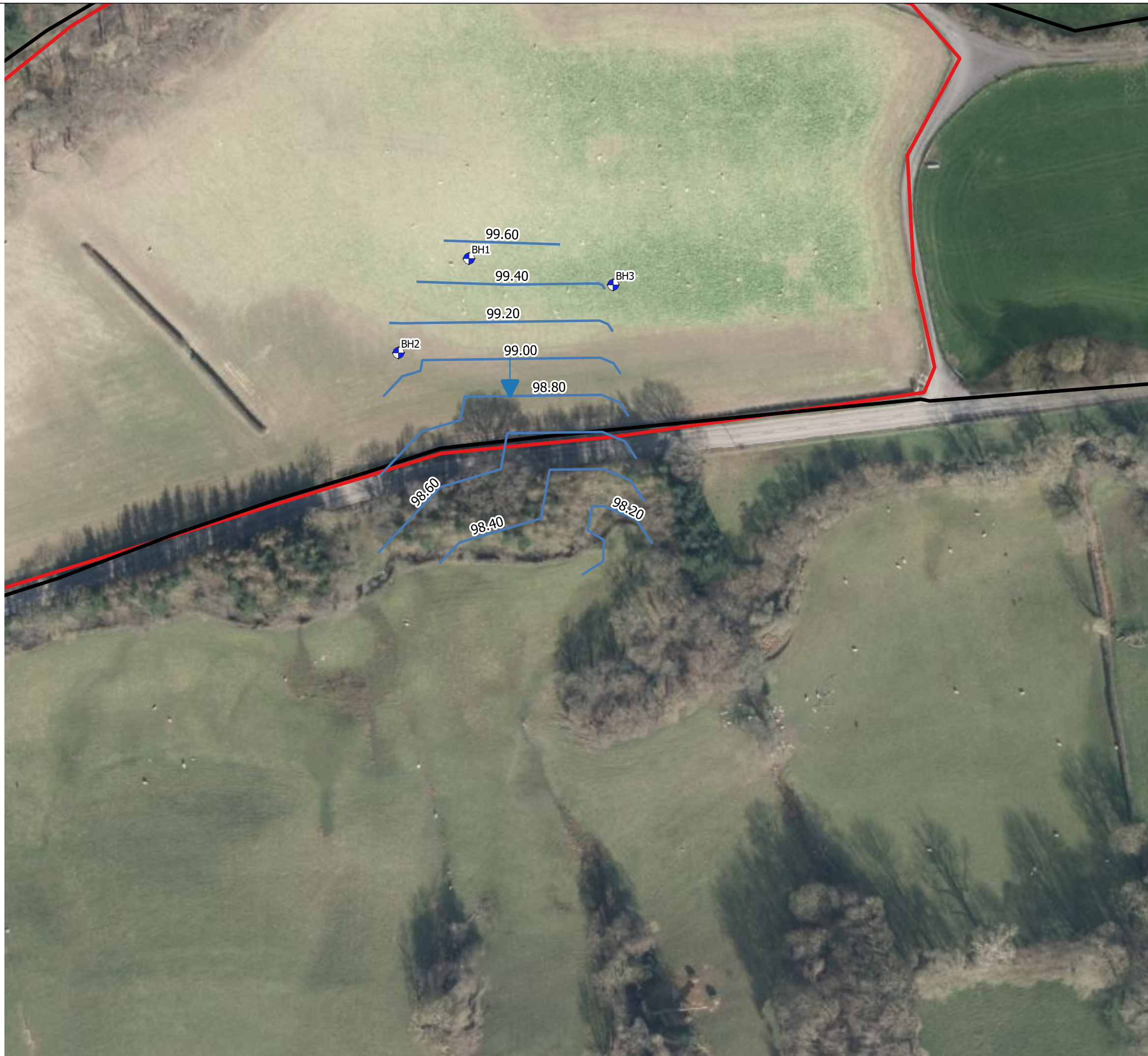


Date	By	Paper	Scale	Rev
05 2022	SG	A3	1:1000	1

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Holiday Park

**DRAWING 3 Groundwater Contours and
Groundwater Flow Direction**

- KEY**
-  Proposed Development boundary
 -  Wider Site Boundary
 -  Groundwater Contours (mAOD)
 -  Groundwater flow arrow
 -  Monitoring Borehole Position



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NOTE: Groundwater Contours are based upon monitoring results
27/04/2022



N



Date	By	Paper	Scale	Rev
05 2022	SG	A3	1:1000	1