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HAZELWOOD, HARBOLETS ROAD,
WEST CHILTINGTON RH20 2LG



Bore Hole Water Flow Test

Site: New Barn Nurseries, West Chiltoningon RH20 2LE

Initial test date 15th September 2023 flow rate of 3.0 m3/hour

New Test date 26th August 2024. Mid summer dry season with low August rainfall.

The Method:

The bore hole pump was tuned on at full flow and allowed to continuously discharge to the natural ditch.

A 1075 litre storage drum was filled from the pumped supply and time take to fill recorded.

The drum was then emptied and refilled 1 hour later.

This process was repeated every hour for the next 8 hours.

The record sheet attached shows precise timings and volumes collected.

Picture evidence was taken for each filling session showing date, time and geo location.

Conclusion:

Time to fill 1075 ltr. tank ranged from 15minutes 15 seconds to 16 minutes 10 seconds giving an average flow rate of 4,161 ltrs. per hour. This rate continued almost unchanged for the duration of the test with no drop in flow rate witnessed after 8 hours of continuous pump running.

Since the required water consumption for the proposed use is calculated at 198 ltrs per day, as per the accompanying Water Neutrality Statements, it is clear that the bore hole has considerable capacity to supply this quantity of water even during the dry summer months.

TIME & VOLUME LOG FOR BORE HOLE PUMP AT NEW BARN NURSERIES, WEST CHILTINGTON, RH20 2LE, RUNNING ON MONDAY 26th AUGUST 2024					
PICTURE NO:	TIME:	DETAILS	APPROX VOLUME	FILL TIME	RUNNING TIME
1	10.23.12 (am)	WELL HEAD			
2	10.23.57 (am)	PIPE TO DITCH & I.B.C			
3	10.24.38 (am)	I.B.C CONTAINER (EMPTY)			
4	10.24.47 (am)	I.B.C OUTLET INTO DITCH			
5	10.25.18 (am)	EMPTY I.B.C			
6	10.28.35 (am)	PUMP RUNNING			
7	10.29.01 (am)	I.B.C COMMENCING FIRST FILL			
8	10.44.16 (am)	I.B.C (FIRST FILL) - FULL	1075 Ltrs	15 Mins / 15 Secs	
9	10.44.55 (am)	I.B.C (FIRST FILL) - EMPTYING			
10	10.51.00 (am)	I.B.C EMPTY			
11	10.52.00 (am)	EMPTY I.B.C			
12	10.54.26 (am)	I.B.C COMMENCING SECOND FILL			
13	11.10.07 (am)	I.B.C (SECOND FILL) - FULL	1075 Ltrs	15 Mins / 41 Secs	
14	11.10.29 (am)	I.B.C (SECOND FILL) - EMPTYING			
15	11.16.17 (am)	I.B.C EMPTY			
16	11.40.21 (am)	PUMP RUNNING			1hr - 12Mins
17	11.59.01 (am)	EMPTY I.B.C			
18	11.59.07 (am)	I.B.C COMMENCING THIRD FILL			
19	12.14.43 (pm)	I.B.C THIRD FILL) - FULL	1075 Ltrs	15Mins / 36 Secs	
20	12.15.07 (pm)	I.B.C (THIRD FILL) - EMPTYING			
21	12.21.50 (pm)	I.B.C EMPTY			
22	12.36.31 (pm)	PUMP RUNNING			2Hrs - 8Mins
23	12.59.19 (pm)	EMPTY I.B.C			
24	12.59.24 (pm)	I.B.C COMMENCING FOURTH FILL			
25	13.15.05 (pm)	I.B.C (FOURTH FILL) - FULL	1075 Ltrs	15Mins / 41 Secs	
26	13.15.33 (pm)	I.B.C (FOURTH FILL) - EMPTYING			
27	13.20.47 (pm)	PUMP RUNNING			2Hrs - 52Mins
28	13.36.42 (pm)	PUMP RUNNING			3Hrs - 8Mins
29	14.04.10 (pm)	EMPTY I.B.C			
30	14.04.22 (pm)	I.B.C COMMENCING FIFTH FILL			
31	14.20.02 (pm)	I.B.C (FIFTH FILL) - FULL	1075 Ltrs	15Mins / 40 Secs	
32	14.20.31 (pm)	I.B.C (FIFTH FILL) - EMPTYING			
33	14.25.45 (pm)	EMPTY I.B.C			
34	14.46.53 (pm)	PUMP RUNNING			4Hrs - 18Mins

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35	15.02.02 (pm)	EMPTY I.B.C			
36	15.02.14 (pm)	I.B.C COMMENCING SIXTH FILL			
37	15.17.54 (pm)	I.B.C (SIXTH FILL) - FULL	1075 Ltrs	15Mins / 40 Secs	
38	15.18.18 (pm)	I.B.C (SIXTH FILL) - EMPTYING			
39	15.23.45 (pm)	EMPTY I.B.C			
40	15.39.44 (pm)	PUMP RUNNING			5Hrs - 11Mins
41	16.03.08 (pm)	EMPTY I.B.C			
42	16.03.33 (pm)	I.B.C COMMENCING SEVENTH FILL			
43	16.19.43 (pm)	I.B.C (SEVENTH FILL) - FULL	1075 Ltrs	16Mins / 10 Secs	
44	16.25.31 (pm)	I.B.C (SEVENTH FILL) - EMPTYING			
45	16.49.58 (PM)	PUMP RUNNING			6Hrs - 21Mins
46	17.01.16 (pm)	EMPTY I.B.C			
47	17.01.30 (pm)	I.B.C COMMENCING EIGHTH FILL			
48	17.17.25 (pm)	I.B.C (EIGHTH FILL) - FULL	1075 Ltrs	15Mins / 55 Secs	
49	17.17.44 (pm)	I.B.C (EIGHTH FILL) - EMPTYING			
50	17.23.24 (pm)	EMPTY I.B.C			
51	17.41.33 (pm)	PUMP RUNNING			7Hrs - 13Mins
52	18.14.52 (pm)	EMPTY I.B.C			
53	18.15.06 (pm)	I.B.C COMMENCING NINETH FILL			
54	18.30.41 (pm)	I.B.C (NINETH FILL) - FULL	1075 Ltrs	15Mins / 35 Secs	
55	18.31.20 (pm)	I.B.C (NINETH FILL) - EMPTYING			
		Total Pump Running Time 8Hrs / 2 Mins			
		Total Litres Pumped in 8Hrs / 2 Minutes = 33'429.03			
		Total Litres Pumped Per Hour / 4'161.29			

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