

Red on sheet

Waterloo System Installation Log Waterloo System Installation Log

Client:	BGS
Site:	UKGEOS
Borehole No.:	TH0421

Borehole Dia. & depth:	
Casing Depth:	
Depth to Water:	

Dates:	22/05/2023
Sheet No.:	1
Approved:	

Casing No	Length	Unit	No.	Depth(ft) to top	Depth(m) to top	ERT	Centraliser	Notes
TD				331	100.89			
	Base plug			327.9	99.94		below Silixa BHA	
1	5' PVC		1	5	98.42		above Silixa BHA	longer casing first to avoid joint
2	5' PVC		1	5	96.90			
3	1' PVC		1	1	96.59			
	0.5 Port 1		1	0.5	96.44			
CHECK	Port 1			316.4	96.44			
4	5' PVC		1	5	94.91	Base ERT - 95.95m		ERT at joint of casings #4 and #5
5	5' PVC		1	5	93.39			
6	5' PVC		1	5	91.87			
7	5' PVC		1	5	90.34		91	
8	5' PVC		1	5	88.82			
9	5' PVC		1	5	87.29			
10	5' PVC		1	5	85.77			
11	1' PVC		1	1	85.47			
	0.5 Port 2		1	0.5	85.31			
CHECK	Port 2			279.9	85.31			
12	5' PVC		1	5	83.79			
13	5' PVC		1	5	82.27		82	
14	5' PVC		1	5	80.74			
15	5' PVC		1	5	79.22			
16	5' PVC		1	5	77.69			
17	2' PVC		1	2	77.08			
18	2' PVC		1	2	76.47			
	0.5 Port 3		1	0.5	76.32			
CHECK	Port 3			250.4	76.32			
19	5' PVC		1	5	74.80			
20	5' PVC		1	5	73.27			END of 22/05/23
21	5' PVC		1	5	71.75		72.75	
22	5' PVC		1	5	70.23			
23	5' PVC		1	5	68.70			
24	1' PVC		1	1	68.40			
	0.5 Port 4		1	0.5	68.24			
CHECK	Port 4			223.9	68.24			
25	5' PVC		1	5	66.72			
26	5' PVC		1	5	65.20			~ 10' of water
27	5' PVC		1	5	63.67		64.5	
28	5' PVC		1	5	62.15			
29	5' PVC		1	5	60.62			
30	5' PVC		1	5	59.10			
31	5' PVC		1	5	57.58			
	0.5 Port 5		1	0.5	57.42			
CHECK	Port 5			188.4	57.42			
32	5' PVC		1	5	55.90			
33	5' PVC		1	5	54.38	Lower ERT - top 54.95m		54.175 ERT Should be 54cm above casing 33 top 10' of water. 54.175 ERT.
34	5' PVC		1	5	52.85	Higher ERT - base 53.95m		Should be 107cm below casing 34 top
35	5' PVC		1	5	51.33			
36	2' PVC		1	2	50.72			
37	1' PVC		1	1	50.41			EST SWAPPED WITH PORT DUE TO ERT CLASH
	0.5 Port 6		1	0.5	50.26			
CHECK	Port 6			164.9	50.26			
38	5' PVC		1	5	48.74			
39	5' PVC		1	5	47.21			
40	5' PVC		1	5	45.69			
41	5' PVC		1	5	44.17		44.95	10L of water
42	5' PVC		1	5	42.64			
43	2' PVC		1	2	42.03			
44	1' PVC		1	1	41.73			
	0.5 Port 7		1	0.5	41.57			
CHECK	Port 7			136.4	41.57472			
45	5' PVC		1	5	40.05			
46	5' PVC		1	5	38.53			

Equipment Required			
Unit	#	Unit	#
5ft Casing	61	Port	8
2ft Casing	6	Double Valve Pump	8
1ft Casing	6	VW Piezometer	8
Base Plug	1	Wellhead Manifold	1
Kevlar Cord	1	Tubing red	1935
		Tubing white sample	1935
		Tubing blue VWT	2050

Baro Zero Reading - 22/05/2023			
Reading	Temp (°C)	Time	Weather

Zero Reading before Installation - 09/05/2023				
Zone	Piezo Serial #	Reading	Temp (°C)	Time
1	1941710			
2	1941012			
3	1941714			
4	2231118			
5	2231109			
6	2231113			
7	2231115			
8	2231115			

Reading after Installation				
Zone	Piezo Serial #	Reading	Temp (°C)	Time
1				
2				
3				
4				
5				
6				
7				
8				

Borehole Water Level (after installation)

Comments

✓ 47	5' PVC	1	5	37.00			
✓ 48	5' PVC	1	5	35.48		36.8	
✓ 49	5' PVC	1	5	33.95			
✓ 50	5' PVC	1	5	32.43			
✓ 51	5' PVC	1	5	30.91			
✓ 52	5' PVC	1	5	29.38			
✓ 53	2' PVC	1	2	28.77			
	0.5 Port 8	1	0.5	28.62			
✓	CHECK		93.9	28.62072			
✓ 54	5' PVC	1	5	27.10			
✓ 55	5' PVC	1	5	25.57			
✓ 56	5' PVC	1	5	24.05		25.5	
✓ 57	5' PVC	1	5	22.52			
✓ 58	5' PVC	1	5	21.00			
✓ 59	5' PVC	1	5	19.48			
✓ 60	5' PVC	1	5	17.95			
✓ 61	5' PVC	1	5	16.43			
✓ 62	5' PVC	1	5	14.90			
✓ 63	5' PVC	1	5	13.38			SL of water
✓ 64	5' PVC	1	5	11.86	Higher ERT - top 12.95m	11	
✓ 65	5' PVC	1	5	10.33			
✓ 66	5' PVC	1	5	8.81			
✓ 67	5' PVC	1	5	7.28			
✓ 68	5' PVC	1	5	5.76			
✓ 69	5' PVC	1	5	4.24			100% of water
✓ 70	5' PVC	1	5	2.71			
✓ 71	5' PVC	1	5	1.19			
✓ 72	2' PVC	1	2	0.58			
✓ 73	1' PVC	1	1	0.27			
	CHECK		0.9	0.27432			

ADDED 2 FT
SECTION TO
SERVICE