

Appendix E

Groundwater Monitoring Results





Aug. 2018
Spakaway

Aug. 2018 Soakaway Test	Easting	Northing
S1	499453.200	102439.300
S2	499123.395	102541.425
S3	499071.463	103036.675
S4	499353.700	103012.500
S5	499758.800	103198.600
S6B	499276.200	103283.000
S7	498829.500	103529.600
S8	498918.500	103616.000
S9	499637.600	103688.900

Aug. 2019
Monitoring

Monitoring Well	Easting	Northing
WS1	498454.415	102344
WS2	498038.950	102737
WS4	498063.191	102861
WS5	498367.800	103246
WS6	498309.300	103304
WS7	498445.900	103467
WS8	498697.500	103253
WS9	498324.272	103042
WS10	498885.800	103878
BH1	495953.368	102348
BH2	496987.838	102524
BH3	496044.460	103011
BH4	498368.365	103009
BH5	498724.002	103377
BH6	498528.639	103652

Monitoring Well	Easting	Northing
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Monitoring Well	Easting	Northing
P1	4989912.658	103853.
P2	499060.969	103771.
P3	498227.455	103819.
P4	49455.265	103769.
P5	498376.456	103613.
P6	498929.842	103581.
P7	498247.323	103549.
P8	498020.979	103370.
P9	498664.704	103307.
P10	499016.532	103431.
P11	499137.820	103484.
P12	498097.564	103173.
P13	498117.253	103105.
P14	498033.788	102733.
P15	499026.234	102855.
P16	499036.327	102645.
P17	499086.328	102626.
P18	499189.790	102698.
P19	499132.992	102523.
P20	499253.393	102487.
P21	499445.215	102587.
P22	499324.083	102407.
P23	499347.870	102414.
P24	499498.503	102431.
P25	499658.630	103459.
P26	499640.529	103280.

Soakaway Test	Easting	N
1	10	10
2	10	10
3	10	10
4	10	10
5	10	10
6	10	10
7	10	10
8	10	10
9	10	10
10	10	10
11	10	10
12	10	10
13	10	10
14	10	10
15	10	10
16	10	10
17	10	10
18	10	10
19	10	10
20	10	10
21	10	10
22	10	10
23	10	10
24	10	10
25	10	10
26	10	10
27	10	10
28	10	10
29	10	10
30	10	10
31	10	10
32	10	10
33	10	10
34	10	10
35	10	10
36	10	10
37	10	10
38	10	10
39	10	10
40	10	10
41	10	10
42	10	10
43	10	10
44	10	10
45	10	10
46	10	10
47	10	10
48	10	10
49	10	10
50	10	10
51	10	10
52	10	10
53	10	10
54	10	10
55	10	10
56	10	10
57	10	10
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59	10	10
60	10	10
61	10	10
62	10	10
63	10	10
64	10	10
65	10	10
66	10	10
67	10	10
68	10	10
69	10	10
70	10	10
71	10	10
72	10	10
73	10	10
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75	10	10
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77	10	10
78	10	10
79	10	10
80	10	10
81	10	10
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83	10	10
84	10	10
85	10	10
86	10	10
87	10	10
88	10	10
89	10	10
90	10	10
91	10	10
92	10	10
93	10	10
94	10	10
95	10	10
96	10	10
97	10	10
98	10	10
99	10	10
100	10	10

Table 4 - Additional Monitoring Wells		
Dec. 2019		
Note: wells installed approx 5m below ex ground level		
Soakaway Test	Eastlow	Northing
DS12	498333.21	103754.4
GS112	498266.93	103440.4
DS87	498986.865	10377.24
DS87	498930.701	102601.1
DS77	495333.169	103555.5
DS87	498589.191	103592.4
DS62	498319.524	103213.1
DS122	498462.377	103277.7
GS132	498735.724	103153.5
DS142	498707.739	102893.5
DS182	498679.871	102723.5
DS182	498248.857	102448.6
DS122	498456.034	102448.6
DS252	498398.877	102448.6

Soakaway Test

Feb 2020 (Proposed)	
Soakaway Test	Comment
T1	1 no test, 0.75m begi and 1 no test, 1.89m begi
T2	1 no test, 0.75m begi and 1 no test, 1.63m begi
T3	1 no test, 0.75m begi and 1 no test, 1.63m begi
T4	1 no test, 1.89m begi
T5	1 no test, 0.75m begi and 1 no test, 1.63m begi
T6	1 no test, 0.75m begi and 1 no test, 1.63m begi
T7	1 no test, 0.75m begi and 1 no test, 1.63m begi
T8	1 no test, 0.75m begi and 1 no test, 1.63m begi
T8a	1 no test, 2.70m begi
T9	1 no test, 0.75m begi and 1 no test, 1.63m begi
T10	1 no test, 0.75m begi and 1 no test, 1.63m begi
T11	1 no test, 0.75m begi and 1 no test, 1.63m begi
T12	1 no test, 0.75m begi and 1 no test, 1.63m begi
T13	1 no test, 0.75m begi and 1 no test, 1.63m begi
T14	1 no test, 0.50m begi and 1 no test, 1.63m begi
T15	1 no test, 0.75m begi and 1 no test, 1.50m begi
T16	1 no test, 0.50m begi and 1 no test, 1.63m begi
T17	1 no test, 0.50m begi and 1 no test, 1.63m begi
T18	1 no test, 0.75m begi and 1 no test, 1.50m begi
T19	1 no test, 0.80m begi
T20	1 no test, 0.80m begi
T21	1 no test, 3.0m begi
T22	1 no test, 0.60m begi
T23	1 no test, 0.80m begi and 1 no test, 1.60m begi
T24	1 no test, 0.50m begi
T24a	1 no test, 0.60m begi
T26	1 no test, 2.10m begi
T26a	1 no test, 1.70m begi
T26	1 no test, 3.0m begi

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Site Boundary

D	23.01.20	Updated with latest groundwater levels and proposed soakaway test locations added	IS	AM
C	12.12.19	Table 5 added & wells shown on plan	AM	AM
B	18.11.19	Original Soakaway tests provided for reference. Deep Soakaway test added.	MF	AM
A	11.07.19	Parcels revised to suit revised site layout	IS	AM
Rev.	Date	Amendment	By	Ch

Status **Indicative**

Wates  REDROW  HOMES

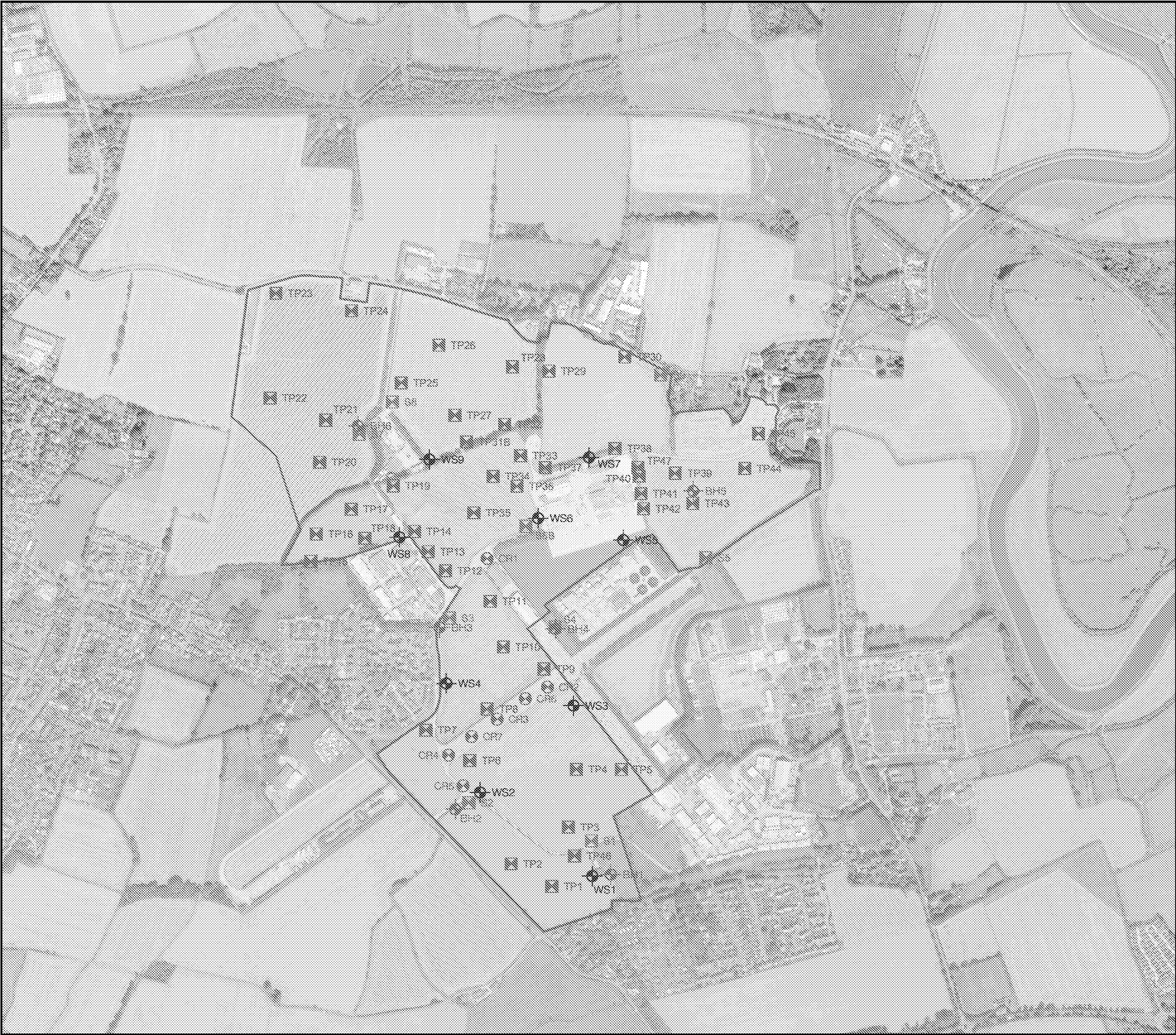
REDROW  HOMES Wates 

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Client	Wates Redrow
Job	Ford Airfield
Title	Supplementary Soakaway Tests Location Plan

Scale Not to Scale		@ A1	Date March 2019
Drawn by MF		Checked by	Approved by
 BMTRADA Accredited	 UKAS Building Services 312	 HAS Accredited Contractor	 Constructionline Part 1 Capa plc
			 RISCAL Accredited Supplier No. 006

Drawing No.	Rev
C85228-D109	D



LEGEND

Site Boundary

Cable Percussion Borehole Location

Window Sample Location

Trial Pit Location

Infiltration Test Location

Coring of Runway

Rev.

Date

Amendment

Drawn

Chkd.

Appd.

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Client

REDROW HOMES LIMITED AND
WATES DEVELOPMENT LIMITED

Project Title

FORD AIRFIELD

Drawing Title

EXPLORATORY HOLE
LOCATION PLAN

Drawn

Date

Checked

Date

Approved

Date

AP

19.10.18

AT

19.10.18

AT

19.10.18

Scale

1:10000

Orig Size

A3

Dimensions

m

Project No.

29228 - R01(00)

Drawing File

29228 - (R01-00) Fig 4.dwg

Drawing No.

FIGURE 4

Rev.

P1

Scale 1 : 10,000

0

100

200

300

400

500m

ARUN DISTRICT COUNCIL F/4/20/OUT

					Round 1	Round 2	Round 3	Round4	Round 5	Round 6	Round 7	Round 8	Round 9	Round 10	Round 11	Round 12	Round 13	Round 14	Round 15	Round 1
Point ID	Easting	Northing	Bohorehole TOC off set	Height GL m AOD	29/08/2018 GW Level mbgl	5/09/2018 GW Level mbgl	13/09/2018 GW Level mbgl	12/10/2018 GW Level mbgl	14/11/18 GW level m bgl	12/12/2018 GW level (m bgl)	16/01/2019 GW level (m bgl)	13/02/2019 GW level (m bgl)	18/03/2019 GW level (m bgl)	10/04/2019 GW Level (m bgl)	9/05/2019 GW Level (m bgl)	13/06/2019 GW Level (m bgl)	17/10/2019 GW Level (m bgl)	13 and 14/11/2019 GW levels (mbgl)	16 to 19/12/2019 GW levels (mbgl)	29/08/2018 GW Level m AOD
WS1	499454.42	102344.7	0.732	4.8	1.73	1.88	1.93	1.92	1.55	0.71	0.63	0.15	0.3	0.82	1.242	1.609	Damaged	Damaged	Damaged	3.07
WS2	499153.6	102569.2	0.74	6.109														Dry	1.22	
WS4	499063.19	102861.5	0.78	6.379								2.04	2.37				Damaged	Damaged	Damaged	
BH1	499503.97	102349.1	0	5.151	2.15	2.29	2.37	2.41	2.11	1.46	1.18	0.78	0.97	1.25	1.613	1.94	2.28	1.45	0.8	3.001
BH2	499087.64	102524.2	0.722	6.289	3.13	3.26	3.31	3.36	3.16	2.42	2.03	1.34	1.88	2.22	2.645	2.981	3.263	2.023	0.893	3.159
BH3	499044.6	103011.7	0.682	7.106	4.22	4.42	4.57	4.62	4.4	3.81	3.46	3.11	3.34	3.65	4.065	4.221	4.075	3.535	2.272	2.888
BH4	499356.36	103008.1	0.622	6.571	4.592	4.74	4.95	4.95	4.53	4.1	3.84	3.59	3.77	4.04	3.151	4.445	4.25	4.02	3.03	1.979
BH5	499724.9	103377.8	0.672	5.657	4.78	4.85	4.81	4.86	4.64	4.32	4.33	4.11	4.31	4.47	4.744	4.764	4.545	4.29	3.9	0.877
BH6	498826.64	103552.1	0.706	6.841	5.37	5.41	5.52	5.48	5.35	4.93	4.55	4.56	4.66	4.56	5.139	5.259	5.04	4.37	3.804	1.473

Ford Airfield Groundwater Monitoring Results
August 2018 to December 2019 - Page 1 of 2
RSK

Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8	Round 9	Round 10	Round 11	Round 12	Round 13	Round 14	Round 15
5/09/2018 GW Level AOD	13/09/2018 GW Level m AOD	12/10/2018 GW Level m AOD	14/11/2018 GW Level m AOD	12/12/2018 GW Level m AOD	16/01/2019 GW Level m AOD	13/02/2019 GW Level m AOD	18/03/2019 GW Level m AOD	10/04/2019 (GW Level m AOD)	10/05/2019 (GW Level m AOD)	13/06/2019 GW Level (m AOD)	17/10/2019 GW Level (m AOD)	13 and 14/11/2019 GW levels (mAOD)	16 to 19/12/2019 GW levels (mAOD)
2.92	2.87	2.88	3.25	4.09	4.17	4.65	4.5	3.98	3.558	3.191	Damaged	Damaged	Damaged
												Dry	4.889
						4.339	4.009				Damaged	Damaged	Damaged
2.861	2.781	2.741	3.041	3.691	3.971	4.371	4.181	3.901	3.538	3.211	2.871	3.701	4.351
3.029	2.979	2.929	3.129	3.869	4.259	4.949	4.409	4.069	3.644	3.308	3.026	4.266	5.396
2.686	2.536	2.486	2.706	3.296	3.646	3.996	3.766	3.456	3.041	2.885	3.031	3.571	4.834
1.831	1.621	1.621	2.041	2.471	2.731	2.981	2.801	2.531	3.42	2.126	2.321	2.551	3.541
0.807	0.847	0.797	1.017	1.337	1.327	1.547	1.347	1.187	0.913	0.893	1.112	1.367	1.757
1.431	1.321	1.361	1.491	1.911	2.291	2.281	2.181	2.281	1.702	1.582	1.801	2.471	3.037

Ford Airfield Groundwater Monitoring Results
August 2018 to December 2019 - Page 2 of 2
RSK

Ford Airfield Groundwater Monitoring Results September 2019 to January 2020 - Page 1 of 2 RSK						Groundwater levels 13th Sept 19 m TOC	Groundwater levels 13th Sept 19 m bgl	Groundwater levels 13th September 19 m AOD	Groundwater levels 17th and 18th Oct 19 m TOC	Groundwater levels 17th and 18th October 19 m bgl	Groundwater levels 17th and 18th October 19 m AOD	Groundwater levels 13th and 14th November (m bgl)	Groundwater levels 13th and 14th November (m AOD)	Groundwater levels 2nd December (m bgl)	Groundwater levels 2nd December (m AOD)	Groundwater levels 16th to 19th December (m bgl)	Groundwater levels 16th to 19th December (m AOD)	Groundwater levels 13th to 14th January (m bgl)	Groundwater levels 13th to 14th January (m AOD)	Groundwater levels 28th to 29th January (m bgl)	Groundwater levels 28th to 29th January (m AOD)	Depth to base (m bgl)
Point ID	Easting	Northing	Elevation m AOD	Bohorehole TOC raised above GL (m)	Height of TOC m AOD																	
WS1	499454.415	102344.689	4.8	0.732	5.532	Well damaged			Well damaged			Well damaged		Well damaged		Well damaged		Well damaged				
WS2	499153.6	102569.2	6.42	0.74	7.16	Not measured			Dry			Dry		1.603	4.814	1.220	5.200	1.600	4.820	1.470	4.950	3.320
WS3	499036.068	102645.377	6.958	0.745	7.703	Not measured			Not measured			Not measured		Dry		Dry		Dry	Dry	1.170	5.788	1.350
WS4	499063.191	102861.482	6.379	0.78	7.159	Not measured			Well damaged			Well damaged						Well damaged			6.379	
WS5	499537.8	103246	6.84	0.748					Dry			Dry				Dry	Dry	Dry	Dry	Dry	Dry	3.520
WS6	499309.3	103304.6	6.55	0.65					Dry			Dry				Dry	Dry	Dry	Dry	Dry	Dry	2.400
WS7	499445.9	103467.4	6.91	0.618					Dry			Dry				Dry	Dry	Dry	Dry	Dry	Dry	3.080
WS8	498937.5	103253.8	7.24	0.738					Dry			Dry		Dry		2.694	4.546	Dry	Dry	Dry	Dry	2.737
WS9	499017.7	103462.3	7.3	0.728	8.028	Not measured			2.94	2.212	5.088	Dry		Dry		2.657	4.643	Dry	Dry	Dry	Dry	2.712
WS10	498885.9	103879.5	6.66	0.62	7.28				Dry			Dry				Dry	Dry	Dry	Dry	Dry	Dry	
BH1	499503.968	102349.079	5.151	0	5.151	Not measured			2.28	2.28	2.871	1.45	3.701	0.780	4.371	0.800	4.351	0.580	4.571	0.560	4.591	7.700
BH2	499087.638	102524.176	6.289	0.722	7.011	Not measured			3.99	3.268	3.021	2.028	4.261	1.302	4.987	0.893	5.396	1.340	4.949	1.210	5.079	11.180
BH3	499044.6	103011.724	7.106	0.652	7.758	Not measured			4.75	4.098	3.008	3.558	3.548	3.920	3.186	2.272	4.834	2.445	4.661	2.375	4.731	10.100
BH4	499356.359	103008.104	6.571	0.622	7.193	Not measured			4.83	4.208	2.363	3.978	2.593			3.030	3.541	2.885	3.686	2.920	3.651	10.470
BH5	499724.902	103377.821	5.657	0.672	6.329	Not measured			5.275	4.603	1.054	4.348	1.309			3.900	1.757	3.840	1.817	3.870	1.787	9.210
BH6	498826.639	103552.057	6.841	0.706	7.547	Not measured			5.83	5.124	1.717	4.454	2.387	4.138	2.703	3.804	3.037	3.960	2.881	3.900	2.941	9.550
P1	498912.858	103853.287	7.02	0.571	7.591	Dry			Dry			Dry				1.844	5.176	Dry	Dry	Dry	Dry	
P2	499060.969	103771.731	7.107	0.47	7.577	Dry			Dry			Dry				1.403	5.704	Dry	Dry	Dry	Dry	
P3	499227.455	103819.483	6.677	0.43	7.107	Dry			1.285	0.855	5.822	0.98	5.697			1.393	5.284	1.500	5.177	1.040	5.637	1.900
P4	499453.265	103769.766	4.35	0.378	4.728	Dry			Dry							Dry	Dry	Dry	Dry	Dry	Dry	1.880
P5	498876.406	103613.003	6.689	0.618	7.307	Dry			1.2	0.582	6.107	0.612	6.077	1.160	5.529	0.147	6.542	1.582	5.107	Dry	Dry	1.830
P6	498929.842	103581.363	7.066	0.57	7.636	Dry			0.91	0.34	6.726	0.41	6.656	0.900	6.166	0.295	6.771	0.650	6.416	0.640	6.426	1.720
P7	499247.323	103549.598	6.552	0.465	7.017	Dry			1.695	1.23	5.322	1.645	4.907	Dry		1.830	4.722	1.800	4.752	Dry	Dry	1.850
P8	498820.979	103370.248	9.146	0.595	9.741	Dry			2.375	1.78	7.366	Dry		Dry		Dry	Dry	1.730	7.416	Dry	Dry	1.780
P9	498864.704	103307.612	7.291	0.665	7.956	Dry			Dry			Dry		Dry		Dry	Dry	Dry	Dry	Dry	Dry	1.770
P10	499018.532	103431.981	7.829	0.57	8.399	Dry			Dry			1.63	6.199	1.550	6.279	1.390	6.439	1.470	6.359	1.480	6.349	1.880
P11	499137.82	103484.109	7.134	0.57	7.704	Dry			Dry			Dry				Dry	Dry	Dry	Dry	Dry	Dry	1.757
P12	499097.564	103173.218	7.531	0.47	8.001	Dry			1.845	1.375	6.156	1.38	6.151	1.720	5.811	1.040	6.491	Dry	Dry	1.370	6.161	1.870
P13	499117.293	103105.762	7.629	0.63	8.259	Dry			Dry			Dry				Water at b	Dry	1.670	5.959	1.770	5.859	1.740
P14	499038.738	102737.452	6.285	0.58	6.865	Dry			Dry			Dry				0.920	5.365	1.195	5.090	1.050	5.235	1.790
P15	499264.234	102855.179	6.707	0.54	7.247	Dry			Dry			Dry				Dry	Dry	Dry	Dry	Dry	Dry	
P16	499036.327	102645.412	7.023	0.6	7.623	Dry			1.7	1.1	5.923	0.74	6.583	1.120	5.903	0.420	6.603	0.870	6.153	0.550	6.473	1.840
P17	499086.328	102626.704	6.815	0.505	7.32	Dry			Dry			Dry		1.270	5.545	0.960	5.855	1.470	5.345	1.330	5.485	1.930
P18	499199.79	102698.273	7.025	0.57	7.595	Dry			Dry			Dry				1.445	5.580	1.710	5.315	1.680	5.345	1.840
P19	499132.992	102523.489	6.414	0.62	7.034	Dry			Dry			Dry		0.780	5.634	0.300	6.114	0.900	5.514	0.730	5.684	1.750
P20	499253.393	102487.265	6.571	0.636	7.207	Dry			Dry			Dry		0.725	5.846	0.344	6.227	0.910	5.661	0.770	5.801	1.900
P21	499448.215	102587.013	6.297	0.53	6.827	Dry			Dry			Dry		Dry		1.830	4.467	1.930	4.367	1.930	4.367	1.960
P22	499324.093	102407.602	6.007	0.62	6.627	Dry			Dry			1.43	4.577	1.280	4.727	1.060	4.947	1.250	4.757	1.190	4.817	1.840
P23	499347.87	102414.171	5.697	0.61	6.307	Dry			Dry			1.25	4.447	0.920	4.777	0.620	5.077	0.880	4.817	0.830	4.867	1.820
P24	499498.503	102431.669	5.986	0.57	6.556	Dry			Dry			Dry		1.280	4.706	1.040	4.946	Dry	Dry	1.340	4.646	1.930
P25	499658.63	103459.154	5.977	0.531	6.508	Dry			Dry			Dry				Dry	Dry	1.380	4.597	Dry	Dry	1.850
P26	499640.529	103280.068	6.866	0.502	7.368	Dry			Dry			Dry				1.615	5.251	1.790	5.076	Dry	Dry	1.845

DS3Z	499330.21	103764.436	3.797	0.27	4.067											1.785	2.012	1.990	1.807	1.990	1.807	3.560
DS11Z	499285.03	103440.599	6.912	0.33	7.242											3.970	2.942	4.010	2.902	4.040	2.872	5.005
DS5Z	498886.855	103724.244	7.181	0.252												4.618	2.563	4.750	2.431	4.790	2.391	4.983
DS6Z	498926.701	103601.706	7.032	0.312												3.863	3.169	4.140	2.892	4.160	2.872	5.053
DS7Z	499308.109	103585.387	6.068	0.35												3.557	2.511	3.690	2.378	3.690	2.378	4.935
DS8Z	498686.191	103262.496	7.768	0.29												3.005	4.763	3.240	4.528	3.280	4.488	4.68
DS9Z	498816.624	103221.936	7.742	0.26												3.045	4.697	3.210	4.532	3.220	4.522	5.005
DS12Z	498962.937	103277.462	7.388	0.34												2.925	4.463	2.960	4.428	3.020	4.368	4.74
DS13Z	499150.724	103163.813	7.79	0.2												3.070	4.720	3.480	4.310	3.430	4.360	4.69
DS14Z	499107.709	102805.781	7.164	0.315												1.440	5.724	2.240	4.924	2.160	5.004	4.67
DS16Z	498979.871	102735.714	6.631	0.335												1.020	5.611	1.390	5.241	1.310	5.321	4.47
DS22Z	499216.557	102488.889	6.662	0.305												0.580	6.082	1.260	5.402	1.120	5.542	3.62
DS23Z	499516.034	102468.851	5.875	0.362												0.923	4.952	1.525	4.350	1.430	4.445	3.798
DS26Z	499698.477	103212.071	7.093	0.3												4.780	2.313	4.770	2.323	-	-	4.975

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