APPENDIX B
Groundwater Sample Collection Logs

URS

GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/19/07 1009

Sample Number: MW - 16
Screen Depth: 19 - 32 feet
Depth to Well Bottom: 34.05

I. EQUIPMENT

Purging Method/Equipment: LF IT LOW FLOW/TSUNAMI
Sampling Equipment: LF IT

II. PURGING INFORMATION

Depth to Water (Static) 26.46 (feet) Stabilized Depth to Water (Pumping) 26.51 (feet)
Stabilized Pump Rate .250 (liters/minute) Pump Placement 29 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.100		26.46	5.95	3.28	-5.0	7.20	21.66	2.1	161
5		.6		6.24	3.37	-5.0	5.07	23.48	2.2	79
7	.250	1.0	26.91	6.31	3.40	621.0	4.58	24.17	2.2	83
10	↓	1.75	26.51	6.31	3.37	89.7	1.32	24.05	2.2	96
12		2.25	↓	6.36	3.37	49.3	2.86	24.01	2.2	95
15		3.0	26.51	6.39	3.36	36.0	2.48	24.60	2.2	93
17		3.5	↓	6.40	3.36	16.3	2.42	24.49	2.2	92
19		4		6.42	3.36	7.4	2.30	24.26	2.2	90
21		4.5	↓	6.43	3.36	5.1	2.17	24.58	2.2	87
23		5	26.51	6.43	3.36	2.6	2.15	24.64	2.1	86
25		5.5	↓	6.44	3.36	0.0	2.11	24.71	2.2	86
27		6		6.45	3.36	0.6	2.07	24.65	2.2	85
29		6.5		6.45	3.36	0.0	2.10	24.57	2.2	85
31		7		6.45	3.36	5.9	1.97	24.70	2.2	84
33		7.5		6.45	3.36	8.7	1.94	24.71	2.1	83
35	↓	8	↓	6.46	3.36	0.0	1.90	24.87	2.2	82

Color/composition of water at purging start: slic cloudy At end of purging: clear
Total Volume Purged: 8 Liters Total PurgeTime: 35 minutes Purged Dry (Y/N) No

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Firm bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/19/07 1143

Sample Number: MW - 22
Screen Depth: 15 - 35 feet
Depth to Well Bottom: 35.09

I. EQUIPMENT

Purging Method/Equipment: LFIT
Sampling Equipment: LFIT

II. PURGING INFORMATION

Depth to Water (Static) 25.88 (feet) Stabilized Depth to Water (Pumping) 26.05 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement 30 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.100			5.22	3.33	-5.0	5.08	22.02	2.3	570
4		.5	26.06	5.73	3.85	-5.0	4.55	22.85	2.5	500
6		.7		5.90	3.90	-5.0	3.65	23.20	2.5	456
11	.200	1.3	26.03	6.03	3.89	945.0	3.07	23.37	2.5	415
14		1.9		6.06	3.90	789.0	2.93	23.43	2.5	402
17		2.5		6.20	3.92	604.0	2.69	23.33	2.5	372
20		3.1		6.24	3.94	470.0	2.66	22.79	2.5	351
22		3.5	25.91	6.24	3.93	363.0	2.48	23.11	2.5	325
25		4.1		6.25	3.93	325.0	2.38	23.28	2.5	314
27	.300	4.7		6.27	3.98	292.0	2.40	24.04	2.5	277
29		5.3	26.02	6.29	3.98	255.0	2.37	24.06	2.5	268
31		6		6.30	3.98	193.0	2.40	23.88	2.5	258
34		6.9		6.31	3.98	149.0	2.40	23.98	2.5	250
36		7.5		6.32	3.98	124.0	2.38	24.07	2.5	241
38		8.1	26.05	6.32	3.98	69.4	2.35	23.81	2.5	223
40		8.7	26.05	6.30	3.98	64.2	2.32	23.87	2.5	219
42		9.3		6.31	3.98	55.6	2.32	23.84	2.5	216

Color/composition of water at purging start: Sl. Cloudy At end of purging: Clear
Total Volume Purged: 9.3L Total PurgeTime: 42min. Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: ~~Furnish~~ Firm bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/19/07 1429

Sample Number: MW - 12
Screen Depth: 13.5 - 33.5 feet
Depth to Well Bottom: 33.57

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 15.04 (feet) Stabilized Depth to Water (Pumping) 15.46 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement 24 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.100			6.08	3.85	-5.0	3.95	23.16	2.5	266
3		.4		6.11	3.92	-5.0	3.78	22.95	2.5	263
7		.8		6.14	3.96	-5.0	3.51	22.66	2.5	260
11		1.2	15.31	6.15	3.97	-5.0	3.31	22.56	2.5	257
16		1.7		6.19	3.99	-5.0	2.82	22.54	2.6	243
18	.300	2.3	15.42	6.23	3.96	-5.0	2.64	24.27	2.5	228
20		3.0		6.25	3.95	-5.0	2.75	24.16	2.5	223
23		3.9	15.47	6.26	3.94	-5.0	2.73	24.17	2.5	221
25		4.5		6.26	3.92	918.0	2.71	24.22	2.5	221
27		5.1		6.27	3.92	819.0	2.72	24.16	2.5	221
30		6.0	15.47	6.27	3.91	705.0	2.70	24.30	2.5	220
32		6.6		6.28	3.89	835.0	2.70	24.72	2.5	218
34		7.2		6.29	3.90	781.0	2.70	24.68	2.5	218
36		7.8		6.31	3.90	577.0	2.63	24.66	2.5	215
38		8.4		6.31	3.90	322.0	2.60	24.67	2.5	210
40		9.0	15.46	6.32	3.91	286.0	2.59	24.70	2.5	207

Color/composition of water at purging start: sl. cloudy At end of purging: clear
Total Volume Purged: 9.0L Total PurgeTime: 40min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Turbidity not dropping at low pump rate. 5ft bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/19/07 1558

Sample Number: MW - 10
Screen Depth: 10 - 30 feet
Depth to Well Bottom: 30.36

I. EQUIPMENT

Purging Method/Equipment: LFIT
Sampling Equipment: LFIT

II. PURGING INFORMATION

Depth to Water (Static) 20.26 (feet) Stabilized Depth to Water (Pumping) 20.84 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement 26 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.150	.15	21.21	6.59	3.45	18.1	4.87	25.13	2.2	-105
5		.75	20.72	6.55	3.71	74.8	2.53	18.08	2.4	-119
8 9	.300	2.95	20.91	6.61	3.54	0.8	1.17	21.90	2.3	-144
11		3.55		6.66	3.55	0.0	1.12	22.71	2.3	-152
13		4.15	21.00	6.72	3.57	0.0	1.17	23.65	2.3	-159
15		4.75		6.74	3.58	0.0	1.11	23.92	2.3	-162
17		5.35	21.01	6.76	3.58	0.0	1.00	24.04	2.3	-164
19		5.95		6.79	3.62	0.0	0.78	23.78	2.3	-167
21		6.55	21.00	6.79	3.65	0.0	0.68	23.32	2.3	-168
23		7.15		6.78	3.63	0.0	0.55	23.35	2.3	-168
25		7.75		6.79	3.61	0.0	0.55	23.66	2.3	-169
27		8.35	21.00	6.80	3.59	0.0	0.52	24.09	2.3	-169
29		8.95		6.85	3.59	0.0	0.56	24.42	2.3	-170
31		9.55		6.86	3.59	0.0	0.59	24.47	2.3	-170
33		10.15	20.84	6.88	3.60	0.0	0.61	24.53	2.3	-170

Color/composition of water at purging start: clear At end of purging: clear
Total Volume Purged: 10.15 L Total PurgeTime: 33 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments:

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/20/07 929

Sample Number: MW - 3
Screen Depth: 10 - 32 feet
Depth to Well Bottom: 29.74

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 18.99 (feet) Stabilized Depth to Water (Pumping) 19.01 (feet)
Stabilized Pump Rate .250 (liters/minute) Pump Placement 24 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.250	.25	19.04	5.40	1.21	58.2	7.12	13.07	0.8	189
4		1.25	19.01	5.70	3.37	455.0	5.43	18.89	2.2	168
7		2.0		5.82	3.67	357.0	4.80	19.97	2.4	161
10		2.75	19.01	5.89	3.77	271.0	4.19	20.52	2.4	156
13		3.50		5.98	3.83	191.0	3.56	21.31	2.4	151
15		4		6.00	3.84	172.0	3.40	21.55	2.5	149
17		4.5	19.01	6.03	3.86	150.0	3.10	21.64	2.5	147
21		5.5		6.09	3.89	97.1	2.75	22.16	2.5	142
23		6.0		6.12	3.90	90.6	2.39	22.19	2.5	139
27		7.0		6.13	3.91	64.8	2.33	22.05	2.5	137
29		7.5	19.01	6.13	3.92	57.1	2.25	21.97	2.5	136
31		8.0		6.13	3.92	55.1	2.17	21.94	2.5	135

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 8 L Total PurgeTime: 31 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments:

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected:

Sample Number: MW - 24
Screen Depth: ~~5 - 25~~ feet 15-20 HW
Depth to Well Bottom: 20.39

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF

II. PURGING INFORMATION

Depth to Water (Static) 13.58 (feet) Stabilized Depth to Water (Pumping) 13.63 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 17.5 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.500	.5		6.05	2.82	0.0	3.97	21.49	1.8	169
2	↑	1.5	13.61	6.12	3.06	0.0	3.10	23.18	2.1	155
4		2.5		6.20	3.45	0.0	2.16	23.34	2.2	140
6		3.0	13.61	6.20	3.41	0.0	1.96	23.70	2.2	131
8		3.5	13.63	6.21	3.42	0.0	1.85	24.01	2.2	125
10		4.0	↓	6.22	3.43	0.0	1.83	24.25	2.2	123
12		4.5		6.23	3.45	0.0	1.80	24.34	2.2	121
14		5.0		6.23	3.45	0.0	1.80	24.39	2.2	120
16		5.5	13.63	6.22	3.46	0.0	1.77	24.21	2.2	120
18		6	↓	6.22	3.46	0.0	1.74	24.37	2.2	119
20		6.5		6.21	3.47	0.0	1.72	24.32	2.2	119
22		7.0	13.63	6.21	3.46	0.0	1.71	24.39	2.2	118
24		7.5	↓	6.21	3.45	0.0	1.72	24.32	2.2	118
26	↓	8.0		6.21	3.46	0.0	1.72	24.40	2.2	118

Color/composition of water at purging start: Clear At end of purging: clear
Total Volume Purged: 8.0L Total PurgeTime: 26 min. Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments:

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/20/07 1345

Sample Number: MW - 7
Screen Depth: 10 - 30 feet
Depth to Well Bottom: 29.59

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 16.60 (feet) Stabilized Depth to Water (Pumping) 16.76 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement 24 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.300	.3	16.88	6.11	3.94	560.0	4.17	24.01	2.5	223
2		.9	↓	6.16	4.03	185.0	3.32	23.00	2.6	210
5		1.5	16.76	6.19	4.05	112.0	3.00	22.67	2.6	203
7		2.1	↓	6.17	4.07	94.3	2.88	22.16	2.6	200
9		2.7	↓	6.17	4.06	65.9	2.76	21.65	2.6	195
11		3.3	16.76	6.17	4.05	51.3	2.66	21.97	2.6	194
13		3.9	↓	6.19	4.04	28.2	2.57	22.58	2.6	186
15		4.5	↓	6.20	4.03	20.6	2.52	22.87	2.6	181
17		5.1	16.79	6.22	4.05	10.1	2.50	22.68	2.6	175
19		5.7	↓	6.22	4.04	2.2	2.37	22.57	2.6	169
21		6.3	↓	6.22	4.04	0.0	2.36	22.65	2.6	168
23		6.9	↓	6.22	4.03	0.0	2.34	22.67	2.6	166
25		7.5	↓	6.22	4.03	0.0	2.33	22.56	2.6	164
27		8.1	↓	6.22	4.03	0.0	2.33	22.46	2.6	163
29	↓	8.7	16.76	6.21	4.03	0.0	2.34	22.53	2.6	161

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 8.7L Total PurgeTime: 29 minutes Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/26/07 1513

Sample Number: MW - 8
Screen Depth: 10 - 30 feet
Depth to Well Bottom: 30.31

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 19.81 (feet) Stabilized Depth to Water (Pumping) 20.28 (feet)
Stabilized Pump Rate .500 (liters/minute) Pump Placement 25 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.100	.1		5.78	1.26	0.0	7.52	14.13	0.8	227
3	.200	.7	20.26	5.91	2.42	50.2	6.45	19.79	1.6	242
6	↓	1.3	20.11	6.07	2.99	103.0	5.53	21.69	1.9	229
9		1.9		6.13	3.23	140.0	5.08	22.28	2.1	221
12		2.5		6.19	3.39	138.0	4.65	22.80	2.2	211
15		3.1	20.19	6.23	3.52	108.0	4.30	23.18	2.3	200
18		3.7		6.25	3.62	74.1	4.11	23.37	2.3	192
21		4.3	20.19	6.29	3.66	58.6	3.91	23.59	2.3	180
24	↓	4.9		6.30	3.68	22.8	3.85	23.36	2.4	173
26	.500	5.9	20.32	6.35	3.68	0.0	3.67	25.63	2.4	158
28	↓	6.9	20.32	6.37	3.69	0.0	3.61	25.68	2.4	157
30		7.9	20.28	6.37	3.71	0.0	3.57	25.31	2.4	160
32		8.9	↓	6.44	3.72	0.0	3.64	25.18	2.4	161
34		9.9	20.28	6.46	3.70	0.0	3.60	25.04	2.4	163
36		10.9		6.47	3.74	0.0	3.62	24.71	2.4	163
38	↓	11.9	↓	6.44	3.75	0.0	3.68	24.28	2.4	164

Color/composition of water at purging start: clear At end of purging: clear
Total Volume Purged: 21.9 L Total PurgeTime: 58 minutes Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume			Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA			N	HCl	VOCs (8260B)
40	12.9		6.43	3.76 0.0	3.77 23.55 2.4 165
42	13.9		6.42	3.79 0.0	3.83 23.09 2.4 164
44	14.9	20.28	6.40	3.76 0.0	3.80 23.17 2.4 164
46	15.9		6.40	3.76 0.0	3.74 23.66 2.4 163

Comments:

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected:

Sample Number: MW - 8 (Cont.)
Screen Depth: - feet
Depth to Well Bottom:

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) see 8a (feet) Stabilized Depth to Water (Pumping) see 8a (feet)
Stabilized Pump Rate see 8a (liters/minute) Pump Placement see 8a (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
3W 48		16.9	20.28	6.41	3.72	0.0	3.63	24.47	2.4	162
50		17.9		6.42	3.71	0.0	3.59	24.79	2.4	161
52		18.9		6.43	3.71	0.0	3.59	24.98	2.4	160
54		19.9		6.44	3.71	0.0	3.55	25.37	2.4	159
56		20.9	20.28	6.45	3.70	0.0	3.52	25.42	2.4	159
58		21.9		6.46	3.71	0.0	3.53	25.54	2.4	158

Color/composition of water at purging start: At end of purging:
Total Volume Purged: Total Purge Time: see 8a Purged Dry (Y/N)

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments:

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 0945 12/21/07

Sample Number: MW - 15
Screen Depth: 15 - 32 feet
Depth to Well Bottom: 28.29

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 14.71 (feet) Stabilized Depth to Water (Pumping) 14.76 (feet)
Stabilized Pump Rate .350 (liters/minute) Pump Placement 22 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.350	.350	14.74	5.77	2.97	208.0	6.24	20.97	1.9	248
2	↑	1.05	↓	5.93	2.95	274.0	4.79	22.11	1.9	239
4		1.85		6.02	3.22	333.0	3.93	22.57	2.1	232
6		2.55	14.77	6.13	3.41	303.0	3.20	22.41	2.2	224
8		3.25	↓	6.24	3.57	282.0	2.62	22.61	2.3	215
10		3.95	14.76	6.30	3.69	121.0	2.33	23.22	2.4	206
13		5.00	↓	6.36	3.67	98.9	2.12	23.70	2.3	193
15		5.70		6.37	3.69	81.9	2.07	23.87	2.3	188
17		6.4	↓	6.37	3.66	19.1	2.05	23.34	2.3	184
19		7.1	14.76	6.38	3.67	8.7	1.97	23.18	2.3	178
21		7.8	↓	6.38	3.65	2.8	1.92	23.22	2.3	175
23	↓	8.5	↓	6.38	3.66	0.0	1.94	23.29	2.3	170

Color/composition of water at purging start: clear At end of purging: clear
Total Volume Purged: 8.5L Total PurgeTime: 23 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1251 12/21/07

Sample Number: MW - 21
Screen Depth: 19 - 35 feet
Depth to Well Bottom: 34.22

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 24.34 (feet) Stabilized Depth to Water (Pumping) 24.41 (feet)
Stabilized Pump Rate .150 (liters/minute) Pump Placement 29 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.050	.05	24.36	5.93	3.80	-5.0	7.80	16.41	2.4	356
4	.300	1.25		6.26	3.66	-5.0	4.98	23.00	2.3	253
6		1.85		6.27	3.68	-5.0	4.75	22.69	2.4	239
8		2.45	24.44	6.29	3.69	-5.0	4.62	22.15	2.4	220
10		3.05		6.28	3.68	-5.0	4.55	21.54	2.3	208
12		3.65		6.28	3.67	-5.0	4.49	20.99	2.4	198
14		4.25		6.27	3.69	-5.0	4.31	21.05	2.4	187
16		4.85	24.41	6.26	3.70	-5.0	4.29	20.58	2.4	177
18		5.45		6.26	3.70	-5.0	4.33	20.05	2.4	164
20		6.05		6.26	3.69	-5.0	4.31	19.86	2.4	151
22		6.65		6.25	3.67	-5.0	4.38	19.47	2.3	142
28	.150	7.55		6.24	3.69	-5.0	4.44	19.10	2.4	133
32		8.15	24.41	6.24	3.71	-5.0	4.43	19.18	2.4	126
34		8.45		6.24	3.71	-5.0	4.44	19.29	2.4	117

Color/composition of water at purging start: Cloudy Lt brown At end of purging: Cloudy
Total Volume Purged: 8.45L Total PurgeTime: 34 minutes Purged Dry (Y/N)

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Sandy/Silty well. pieces of plastic in pump screen + string?

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

Sand in ce

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pump ~~slower~~ HW ? .250-.350 faster? try different placement - 28feet (~~or lower~~ HW)

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1533 12/21/07

Sample Number: MW - 27
Screen Depth: 10 - 35 feet
Depth to Well Bottom: 35.21

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 14.41 (feet) Stabilized Depth to Water (Pumping) 14.48 (feet)
Stabilized Pump Rate .4 (liters/minute) Pump Placement 26 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.150	.15		5.97	3.87	0.0	2.99	19.07	2.4	201
2	.400	.95		6.22	3.82	0.0	5.11	20.24	2.4	188
4		1.75	14.50	6.24	3.82	0.0	4.70	20.28	2.4	184
6		2.55		6.27	3.82	0.0	4.42	20.51	2.4	179
8		3.35		6.29	3.83	0.0	4.24	20.70	2.4	176
10		4.15	14.48	6.32	3.83	0.0	4.06	20.74	2.5	172
12		4.95		6.33	3.85	0.0	3.91	20.34	2.5	167
14		5.75		6.33	3.85	0.0	3.84	20.36	2.5	166
16		6.55	14.48	6.35	3.85	0.0	3.67	20.42	2.5	162
18		7.35		6.36	3.84	0.0	3.60	20.75	2.5	158
20		8.15	14.48	6.37	3.85	0.0	3.58	20.49	2.5	159
22		8.95		6.37	3.85	0.0	3.52	20.54	2.5	153
24		9.75	14.48	6.37	3.84	0.0	3.52	20.62	2.5	153

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 9.75 L Total PurgeTime: 24 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/21/07

Sample Number: MW - 28
Screen Depth: 15 - 35 feet
Depth to Well Bottom: 34.58

I. EQUIPMENT

Purging Method/Equipment: N/A
Sampling Equipment: N/A

II. PURGING INFORMATION

Depth to Water (Static) 12.80 (feet) Stabilized Depth to Water (Pumping) N/a (feet)
Stabilized Pump Rate N/a (liters/minute) Pump Placement N/a (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)

N/A

Color/composition of water at purging start:_____ At end of purging:_____
Total Volume Purged:_____ Total PurgeTime:_____ Purged Dry (Y/N)_____

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

N/A

Comments: Soft bottom. measurements only.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/21/07

Sample Number: MW - 29
Screen Depth: 15 - 35 feet
Depth to Well Bottom: 34.96

I. EQUIPMENT

Purging Method/Equipment: N/A
Sampling Equipment: N/A

II. PURGING INFORMATION

Depth to Water (Static) 14.01 (feet) Stabilized Depth to Water (Pumping) N/a (feet)
Stabilized Pump Rate N/a (liters/minute) Pump Placement _____ (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conduc-tance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
		N/A								

Color/composition of water at purging start:_____ At end of purging:_____
Total Volume Purged:_____ Total PurgeTime:_____ Purged Dry (Y/N)_____

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
	N/A		

Comments: Measurements only. Soft bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 0859 12/26/07

Sample Number: MW - 17
Screen Depth: 15 - 30 feet
Depth to Well Bottom: 30.23

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 18.45 (feet) Stabilized Depth to Water (Pumping) 19.07 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement 25 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.100			5.70	3.60	0.0	8.56	17.77	2.3	263
10		1.0		6.19	3.89	0.0	5.76	21.74	2.5	213
12	.5	2.0	19.01	6.24	3.92	0.0	5.28	21.79	2.5	204
14		3.0		6.28	3.91	0.0	4.88	21.47	2.5	197
18		5.0		6.32	3.83	0.0	4.65	21.05	2.5	191
20		6.0	19.63	6.37	3.90	0.0	4.34	22.03	2.5	178
23	.3	6.9		6.35	3.93	0.0	4.63	20.16	2.5	177
25		7.5	19.47	6.31	3.92	0.0	4.66	19.38	2.5	177
27				6.28	3.92	0.0	4.67	19.26	2.5	176
29		8.1	19.22	6.27	3.93	0.0	4.68	19.51	2.5	176
31		8.7		6.27	3.93	0.0	4.69	19.73	2.5	177
33		9.3	19.07	6.26	3.91	0.0	4.73	19.75	2.5	176
35		9.9		6.26	3.89	0.0	4.81	19.68	2.5	176

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 9.9L Total PurgeTime: 35 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Firm bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1255 12/26/07

Sample Number: MW - 19
Screen Depth: 19 - 35 feet
Depth to Well Bottom: 31.30

I. EQUIPMENT

Purging Method/Equipment: ~~Holly Woodward~~ HW LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 25.52 (feet) Stabilized Depth to Water (Pumping) 25.57 (feet)
Stabilized Pump Rate .150 (liters/minute) Pump Placement 28 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.150	.15		5.77	3.61	-5.0	8.93	20.46	2.3	322
5		.90		6.00	3.65	-5.0	7.10	21.85	2.3	288
10		1.65	25.56	6.06	3.70	-5.0	6.87	21.45	2.4	266
15		2.40		6.09	3.71	-5.0	6.50	21.77	2.4	252
20		3.15		6.18	3.75	603.0	5.85	22.33	2.4	195
25		3.90		6.29	3.76	482.0	5.83	21.99	2.4	184
30		4.65		6.31	3.76	406.0	5.81	21.90	2.4	181
35		5.40	25.57	6.32	3.76	329.0	5.72	21.78	2.4	175
40		6.15		6.32	3.77	292.0	5.67	21.60	2.4	170
45		6.90		6.35	3.77	362.0	5.61	21.75	2.4	163
50		7.65	25.57	6.35	3.76	555.0	5.58	22.11	2.4	160
52		7.95		6.35	3.77	473.0	5.67	21.82	2.4	160
54		8.25		6.37	3.76	418.0	5.50	22.76	2.4	155
56		8.55	25.57	6.40	3.76	412.0	5.50	23.16	2.4	154
58		8.85		6.39	3.79	282.0	5.67	22.91	2.4	159
60		9.15		6.34	3.90	254.0	6.17	20.59	2.5	167

Color/composition of water at purging start: Cloudy At end of purging: sl. cloudy
Total Volume Purged: 14.25L Total PurgeTime: 94min Purged Dry (Y/N)

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Sandy / silty well! HW Try pumping faster → .250 - .350

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1255 12/26/07

Sample Number: MW - 19
Screen Depth: - feet
Depth to Well Bottom:

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) see 15a (feet) Stabilized Depth to Water (Pumping) see 15a (feet)
Stabilized Pump Rate (liters/minute) Pump Placement (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
62	.150	9.45	~~6.3~~ 4W	6.33	3.63	-5.0	5.94	20.44	0.01	170
64		9.75		6.23	0.013	782.0	6.15	20.34	0.01	180
66		10.05	25.57	6.23	0.012	789.0	6.39	20.22	0.01	186
68		10.35		6.24	0.011	793.0	6.73	19.95	0.01	190
70		10.65		6.30	3.76	925.0	6.52	20.58	2.4	161
72		10.95	25.57	6.33	3.77	814.0	6.33	21.22	2.4	146
74		11.25		6.37	3.75	848.0	6.14	21.76	2.4	136
76		11.55		6.38	3.76	873.0	6.04	22.33	2.4	134
78		11.85	25.57	6.38	3.76	798.0	5.96	22.62	2.4	134
80		12.15		6.38	3.77	792.0	5.97	22.61	2.4	135
82		12.45		6.39	3.79	831.0	6.05	22.16	2.4	137
84		12.75		6.38	3.80	889.0	6.11	21.82	2.4	138
86		13.05		6.37	3.84	988.0	6.21	21.14	2.5	142
88		13.35		6.35	3.87	-5.0	5.67	23.89	2.4	140
90		13.65		6.37	3.79	992.0	5.48	24.42	2.4	137
92		13.95		6.41	3.76	528.0	5.49	24.43	2.4	145
94		14.25		6.40	3.76	440.0	5.60	24.27	2.4	150

Color/composition of water at purging start: At end of purging:
Total Volume Purged: Total Purge Time: See 15a Purged Dry (Y/N)

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Water stopped flowing / adjusted flow after 4th reading down. Water brown + then clear.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1417 12/26/07

Sample Number: MW - 5
Screen Depth: 10 - 32 feet
Depth to Well Bottom: 29.09

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 18.33 (feet) Stabilized Depth to Water (Pumping) 18.41 (feet)
Stabilized Pump Rate .4 (liters/minute) Pump Placement 25 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.100	.1		5.94	3.71	709.0	8.38	22.25	2.4	383
5	↓	.6	18.34	6.60	3.75	643.0	8.05	21.24	2.4	364
7	.400	1.4	↓	6.17	3.69	380.0	6.23	22.83	2.4	268
9		2.2	18.41	6.25	3.70	243.0	6.09	23.61	2.4	225
11		3.0		6.27	3.71	222.0	6.05	23.68	2.4	208
13		3.8	↓	6.29	3.73	147.0	6.03	23.73	2.4	188
15		4.6	18.41	6.29	3.74	111.0	5.97	23.81	2.4	179
17		5.4		6.28	3.74	77.9	5.99	23.46	2.4	172
20		6.6	↓	6.26	3.76	59.1	5.93	23.38	2.4	165
22		7.4	18.41	6.27	3.76	49.7	5.78	23.88	2.4	161
24		8.2	↓	6.27	3.76	46.9	5.71	24.14	2.4	159
26		9.0	18.41	6.27	3.76	37.2	5.69	24.37	2.4	159
28		9.8		6.27	3.77	34.1	5.71	24.34	2.4	159
30	↓	10.6	↓	6.27	3.77	28.3	5.73	24.36	2.4	159

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 10.6L Total PurgeTime: 30 Min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: soft bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1539 12/26/07

Sample Number: MW - 1
Screen Depth: 10 - 30 feet
Depth to Well Bottom: 25.83

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 19.01 (feet) Stabilized Depth to Water (Pumping) 19.11 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement 23 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.300	0.3		5.45	3.48	561.0	9.39	15.29	2.1	513
2	↓	0.9	19.14	5.79	3.24	438.0	8.47	19.06	2.1	451
4	↓	1.5	↓	6.01	3.78	301.0	7.83	21.07	2.4	406
6	↓	2.1	↓	6.08	3.83	255.0	7.48	21.53	2.5	384
8	↓	2.7	19.12	6.16	3.87	211.0	6.87	21.82	2.5	352
10	↓	3.3	↓	6.23	3.93	222.0	6.63	21.85	2.5	334
12	↓	3.9	19.11	6.29	3.95	94.6	6.17	22.08	2.5	303
14	↓	4.5	↓	6.31	3.97	58.8	6.05	22.08	2.5	287
16	↓	5.1	↓	6.33	3.98	34.2	5.91	21.99	2.5	272
18	↓	5.7	19.11	6.34	3.93	29.0	5.75	22.05	2.5	253
20	↓	6.3	↓	6.34	3.85	25.6	5.64	22.23	2.5	242
22	↓	7.0	↓	6.35	3.90	14.0	5.64	22.18	2.5	236
24	↓	7.6	↓	6.35	3.91	8.5	5.59	22.15	2.5	230
26	↓	8.2	19.11	6.35	3.90	15.2	5.53	22.21	2.5	223

Color/composition of water at purging start: _____ At end of purging: _____
Total Volume Purged: _____ Total PurgeTime: _____ Purged Dry (Y/N) _____

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO_3	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl^-, NO_3^-, SO_4^{2-} (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H_3PO_4	TOC (415.1)

Comments: Fine roots in well.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1624 12/26/07

Sample Number: MW - 25
Screen Depth: 5 - 25 feet
Depth to Well Bottom: 26.02

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 18.92 (feet) Stabilized Depth to Water (Pumping) 18.94 (feet)
Stabilized Pump Rate .4 (liters/minute) Pump Placement 22 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.400	.4		5.72	3.93	0.0	7.78	19.30	2.5	337
3		1.6	18.94	5.96	3.85	0.0	7.16	20.00	2.5	298
5		2.4		6.05	3.88	0.0	6.75	19.58	2.5	272
7		3.2		6.11	3.87	0.0	6.14	20.03	2.5	248
9		4.0	18.95	6.20	3.88	0.0	5.42	20.02	2.5	212
11		4.8		6.22	3.89	0.0	5.31	19.47	2.5	200
13		5.6	18.94	6.23	3.89	0.0	5.18	19.32	2.5	193
15		6.4		6.24	3.89	0.0	4.99	19.64	2.5	187
17		7.2		6.27	3.89	0.0	4.82	19.78	2.5	178
19		8.0		6.27	3.91	0.0	4.94	19.14	2.5	174
21		8.8		6.27	3.90	0.0	4.90	19.23	2.5	172
23		9.6		6.27	3.89	0.0	4.84	19.37	2.5	170
25		10.4		6.27	3.89	0.0	4.79	19.38	2.5	168

Color/composition of water at purging start: Clear At end of purging: clear
Total Volume Purged: 10.4L Total PurgeTime: 25 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO_3	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl^-, NO_3^-, SO_4^{2-} (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H_3PO_4	TOC (415.1)

Comments: Firm bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1740 | 12/26/07

Sample Number: MW - 26
Screen Depth: 10 - 35 feet
Depth to Well Bottom: 35.29

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 17.01 (feet) Stabilized Depth to Water (Pumping) 17.06 (feet)
Stabilized Pump Rate .4 (liters/minute) Pump Placement 27 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.400	.4		5.56	3.72	4.6	6.61	19.08	2.4	552
2		1.2		5.83	3.91	0.0	6.46	19.95	2.5	495
4		2.0	17.08	5.92	3.92	0.0	6.33	20.34	2.5	474
6		2.8		6.16	3.95	0.0	5.96	21.16	2.5	401
8		3.6		6.22	3.96	0.0	5.85	21.28	2.5	377
10		4.4	17.06	6.25	3.97	0.0	5.78	21.22	2.5	362
12		5.2		6.30	3.97	0.0	5.68	21.26	2.5	337
14		6.0		6.37	3.98	0.0	5.55	20.93	2.5	285
16		6.8		6.39	3.98	0.0	5.46	20.97	2.6	263
18		7.6	17.06	6.40	3.99	0.0	5.42	20.81	2.6	255
20		8.4		6.40	3.99	0.0	5.44	20.49	2.6	245
22		9.2		6.39	3.99	0.0	5.43	20.59	2.5	236
24		10.0		6.41	3.98	0.0	5.26	21.17	2.5	225
26		10.8	17.06	6.42	3.98	0.0	5.12	21.65	2.5	212

Color/composition of water at purging start: Clear At end of purging: clear
Total Volume Purged: 10.8L Total PurgeTime: 26 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Firm bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/27/07 0837

Sample Number: MW - 14
Screen Depth: 15 - 40 feet
Depth to Well Bottom: 31.54

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 17.66 (feet) Stabilized Depth to Water (Pumping) 17.87 (feet)
Stabilized Pump Rate .3 (liters/minute) Pump Placement ~~23~~ 24 (feet) HW

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.300	.3		5.92	3.97	404.0	8.53	19.89	2.5	339
2		.9	17.89	5.94	3.96	265.0	7.72	20.76	2.5	309
4		1.5		6.06	3.95	175.0	7.19	21.78	2.5	275
6		2.1		6.13	3.97	133.0	6.96	22.10	2.5	243
8		2.7	17.87	6.17	3.99	101.0	6.92	21.89	2.6	214
10		3.3		6.20	4.00	89.1	6.87	21.61	2.6	195
12		3.9		6.30	4.00	79.8	6.44	22.48	2.6	174
14		4.5		6.36	4.00	54.7	6.11	23.18	2.6	161
16		5.1		6.38	4.00	38.8	5.99	23.46	2.6	157
18		5.7	17.87	6.39	4.00	32.7	5.91	23.58	2.6	156
20		6.3		6.43	4.01	14.9	5.84	23.61	2.6	151
22		6.9		6.43	4.01	11.0	5.76	23.64	2.6	150
24		7.5	17.87	6.43	4.02	8.5	5.71	23.57	2.6	149
26		8.1		6.44	4.02	10.8	5.72	23.34	2.6	148
28		8.7		6.43	4.03	11.9	5.69	23.28	2.6	149
30		9.3	17.87	6.43	4.03	9.7	5.66	23.29	2.6	147

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 9.3L Total PurgeTime: 30 min. Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

ments:

F = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
l volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Molly Woodward
Date & Time Collected: 1001 12/27/07

Sample Number: MW - 20
Screen Depth: 19 - 35 feet
Depth to Well Bottom: 32.93

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 25.38 (feet) Stabilized Depth to Water (Pumping) 25.37 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 30 ~~29~~ HW (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.200	.2		5.24	3.54	682.0	8.00	20.91	2.3	496
HW ~~10~~ 5		1.2	25.34	5.54	3.63	509.0	7.36	20.33	2.3	428
10		2.2		6.15	3.74	165.0	6.17	21.41	2.4	294
12	.500	3.2		6.26	3.69	97.5	5.41	22.75	2.4	234
14		4.2	25.37	6.31	3.69	75.2	5.30	23.11	2.4	221
16		5.2		6.34	3.72	43.8	5.41	22.81	2.4	211
18		6.2		6.34	3.72	34.1	5.42	22.72	2.4	206
20		7.2		6.33	3.77	28.5	5.47	22.38	2.4	205
22		8.2	25.38	6.35	3.78	26.3	5.62	21.54	2.4	204
24		9.2		6.33	3.75	32.2	5.66	21.28	2.4	201
26		10.2		6.32	3.75	25.0	5.40	22.07	2.4	190
28		11.2		6.33	3.75	23.7	5.41	21.87	2.4	182
30		12.2	25.37	6.33	3.75	24.6	5.37	21.91	2.4	180

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 12.2L Total PurgeTime: 30 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1058 | 12/27/07

Sample Number: MW - 23
Screen Depth: 5 - 25 feet
Depth to Well Bottom: 25.33

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 15.80 (feet) Stabilized Depth to Water (Pumping) 15.84 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 20 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.500	.5		5.45	3.59	0.0	8.42	21.13	23	549
2		1.5	15.85	5.88	3.65	0.0	7.35	22.18	2.3	445
4		2.5		6.11	3.68	0.0	6.46	21.87	2.4	359
6		3.5		6.14	3.68	0.0	6.31	21.86	2.4	348
8		4.5	15.81	6.17	3.68	0.0	6.10	22.06	2.4	330
10		5.5		6.24	3.69	0.0	5.70	22.12	2.4	284
12		6.5		6.26	3.69	0.0	5.60	22.25	2.4	270
14		7.5	15.84	6.28	3.69	0.0	5.51	22.21	2.4	260
16		8.5		6.28	3.69	0.0	5.52	22.07	2.4	250

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 8.5 L Total PurgeTime: 16 min. Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Firm bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1152 12/27/07

Sample Number: MW - 18
Screen Depth: 5 - 25 feet
Depth to Well Bottom: 20.38

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 11.54 (feet) Stabilized Depth to Water (Pumping) 11.59 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 16 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.400	.4		5.88	3.57	6.0	6.88	21.54	2.3	454
2		1.2		5.96	3.62	2.8	6.90	20.85	2.3	430
4		2.0	11.59	6.14	3.62	0.0	6.28	22.20	2.3	361
6	.500	3.0	↓	6.21	3.64	0.0	6.24	21.62	2.3	317
8		4.0		6.25	3.63	0.0	6.04	21.90	2.3	296
10		5.0	11.59	6.28	3.64	0.0	5.91	22.11	2.3	278
12		6.0	↓	6.30	3.64	0.0	5.80	22.37	2.3	264
14		7.0		6.31	3.65	0.0	5.83	22.07	2.3	254
16		8.0	11.59	6.30	3.65	0.0	5.90	21.72	2.3	247
18		9.0	↓	6.30	3.66	0.0	5.90	21.45	2.3	242
20		10.0		6.30	3.65	0.0	5.86	21.51	2.3	237
22		11.0	11.59	6.30	3.64	0.0	5.77	~~21.01~~	2.3	232
								21.64	HW	

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 11.0L Total PurgeTime: 22 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO_3	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl^-, NO_3^-, SO_4^{2-} (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H_3PO_4	TOC (415.1)

Comments: Firm bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/27/07 1301

Sample Number: MW - 6
Screen Depth: 10 - 32 feet
Depth to Well Bottom: 29.48

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 19.29 (feet) Stabilized Depth to Water (Pumping) 19.35 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 25 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.300	.3		5.34	3.48	579.0	8.17	20.42	2.2	549
2		.9	19.30	5.50	3.52	492.0	8.05	20.60	2.3	518
5		1.8		5.80	3.60	338.0	6.86	21.46	2.3	439
7		2.4		5.85	3.62	302.0	6.56	21.54	2.3	413
9		3.0	19.34	5.92	3.64	271.0	6.34	21.89	2.3	390
12		3.9		6.06	3.69	144.0	5.55	24.63	2.4	352
14	.1500	4.9		6.12	3.75	42.0	5.59	24.66	2.4	329
17		6.4	19.35	6.17	3.79	16.9	5.51	24.68	2.4	300
19		7.4		6.19	3.79	7.8	5.39	24.77	2.4	286
21		8.4		6.19	3.81	4.3	5.35	24.77	2.4	277

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 8.4L Total PurgeTime: 21 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/27/07 1359

Sample Number: MW - 2
Screen Depth: 10 - 32 feet
Depth to Well Bottom: 29.57

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 18.04 (feet) Stabilized Depth to Water (Pumping) 18.11 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 25 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.500	.5		5.67	3.84	5.0	8.56	21.61	2.4	534
2		1.5		5.73	3.76	895.0	8.67	20.97	2.4	518
4		2.5	18.11	5.77	3.72	777.0	8.55	20.83	2.4	508
6		3.5		5.89	3.70	567.0	7.99	21.00	2.4	494
8		4.5		5.92	3.68	499.0	7.77	21.12	2.3	454
10		5.5		6.03	3.62	470.0	7.42	21.38	2.3	419
12		6.5		6.15	3.58	366.0	6.99	21.82	2.3	355
14		7.5		6.25	3.58	336.0	6.93	21.90	2.3	339
16		8.5		6.27	3.59	288.0	6.85	21.97	2.3	324
18		9.5		6.30	3.59	144.0	6.86	21.82	2.3	314

Color/composition of water at purging start: Sl. Cloudy At end of purging: Clear
Total Volume Purged: 9.5L Total PurgeTime: 18 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/23/07 1448

Sample Number: MW - 13
Screen Depth: 9 - 29 feet
Depth to Well Bottom: 25.42

I. EQUIPMENT

Purging Method/Equipment: LF/T
Sampling Equipment: LF/T

II. PURGING INFORMATION

Depth to Water (Static) 17.50 (feet) Stabilized Depth to Water (Pumping) 17.64 (feet)
Stabilized Pump Rate .5 (liters/minute) Pump Placement 21 (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)
0	.500	.5		5.39	3.94	-5.0	8.57	20.67	2.6	603
3		2.0		5.88	3.64	722.0	8.69	21.08	2.3	547
5		3.0	17.76	5.97	3.60	561.0	8.59	20.82	2.3	519
7		4.0		6.13	3.65	329.0	7.79	20.56	2.3	453
9		5.0	17.64	6.25	3.67	190.0	7.20	20.69	2.3	388
11		6.0		6.31	3.68	140.0	7.02	20.78	2.4	355
13		7.0		6.36	3.68	96.1	6.75	21.09	2.4	321
15		8.0		6.39	3.68	57.2	6.62	21.26	2.4	303
17		9.0		6.42	3.68	44.4	6.58	21.31	2.4	292
19		10.0	17.64	6.43	3.68	19.7	6.54	21.27	2.4	282

Color/composition of water at purging start: Clear At end of purging: Clear
Total Volume Purged: 10 L Total PurgeTime: 19 min Purged Dry (Y/N) N

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)
1 x 250ml Clear Plastic	N	HNO_3	Iron and Manganese (6020)
1 x 500ml Clear Plastic	N	none	Cl^-, NO_3^-, SO_4^{2-} (300)/Alkalinity (310)
1 x 250ml Amber Glass	N	H_3PO_4	TOC (415.1)

Comments: Soft bottom.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 1307 12/28/07

Sample Number: MW - 9
Screen Depth: 48.5 - 50 feet
Depth to Well Bottom: 49.98

I. EQUIPMENT

Purging Method/Equipment: *3well volume ~~LF/T~~ HW hand bailed (dedicated bailer) DB
Sampling Equipment: ~~LF/T~~ HW DB

II. PURGING INFORMATION

Depth to Water (Static) 19.20 (feet) Stabilized Depth to Water (Pumping) N/a (feet)
Stabilized Pump Rate N/a (liters/minute) Pump Placement N/a (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)

N/a

Color/composition of water at purging start: N/a At end of purging:
Total Volume Purged: Total Purge Time: Purged Dry (Y/N)

** No measurements taken. Equipment Failure/ broken pump.

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: Soft bottom. * 3W = 49.98 − 19.20 = (30.78 × 0.16 (4.92)) × 3 = 14.76 gallons

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3

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GROUNDWATER SAMPLE COLLECTION LOG

Project Name: AL PHILLIPS - MARYLAND SQUARE
Job Number: 26698724
Sample Collected By: Holly Woodward
Date & Time Collected: 12/28/07

Sample Number: MW - 30
Screen Depth: ~~20~~ 40 feet
Depth to Well Bottom: 40.41

I. EQUIPMENT

Purging Method/Equipment: N/a ~~LF/T~~ HW
Sampling Equipment: N/a ~~LF/T~~ HW

II. PURGING INFORMATION

Depth to Water (Static) 17.12 (feet) Stabilized Depth to Water (Pumping) N/a (feet)
Stabilized Pump Rate N/a (liters/minute) Pump Placement N/a (feet)

Time (min)	Pumping Rates (L/min)	Volume (L)	Water Level (ft)	pH (s.u)	Conductance (mS/cm)	Turbidity (ntu)	DO (mg/L)	T (°C)	TDS (g/L)	ORP (mV)

N/a

Color/composition of water at purging start: N/a At end of purging:
Total Volume Purged: Total Purge Time: Purged Dry (Y/N)

III. SAMPLE PACKAGING

Container Type & Volume	Filter (Y/N)	Preservatives	Parameters
3 x 40ml VOA	N	HCl	VOCs (8260B)

Comments: 12/21 - Carpanted on MW-30. soft bottom. Measurements only.

Notes: LF = Low flow purging method /sampling equipment. T = Tsunami pump. G = Grundfos pump. DB = Dedicated bailer sampling equiment.
3W = 3 well volume purging method. 3 well volume purging method = length of static water column * well casing volume (gal/ft: 2" = 0.16, 4" = 0.65) * 3