



Low Flow Groundwater Sampling Form

08/14/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 19 [ft]
Pump placement from TOC 15 [ft]

Well Information:

Well Id CAMU-MW01R
Well diameter 2 [in]
Well total depth from TOC 17.26 [ft]
Depth to top of screen from TOC 7.23 [ft]
Screen length 129.6 [in]
Depth to Water from TOC 7.09 [ft]

Pumping information:

Final pumping rate 0 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.06 [in]

Start/End Time:

Start 12:02:26 PM
End 12:55:13 PM
Elapsed Time 0:52:47

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
				+/-3 %				
Last 5 Readings	12:41:40	63.36	7.64	728.89	5.55	0.16	-199.90	
	12:44:42	63.47	7.65	725.90	4.64	0.15	-202.25	
	12:47:42	62.87	7.65	721.32	4.19	0.15	-204.77	
	12:50:43	63.44	7.65	725.25	5.84	0.14	-206.57	
	12:53:45	63.70	7.66	723.45	7.85	0.12	-207.81	
Variance in last 3 readings	12:47:42	-0.60	0.01	-4.59	-0.45	-0.01	-2.52	
	12:50:43	0.57	0.00	3.93	1.64	-0.01	-1.80	
	12:53:45	0.26	0.01	-1.80	2.01	-0.02	-1.24	

Notes:

FINAL DTW = 7.14 FT
VOLUME PURGED = 3.43 GAL
SAMPLE TIME = 1254



Low Flow Groundwater Sampling Form

08/14/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 55 [ft]
Pump placement from TOC 47 [ft]

Well Information:

Well Id CAMU-P01R
Well diameter 2 [in]
Well total depth from TOC 51.49 [ft]
Depth to top of screen from TOC 40.16 [ft]
Screen length 126 [in]
Depth to Water from TOC 6.88 [ft]

Pumping information:

Final pumping rate 325 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.12 [in]

Start/End Time:

Start 12:06:24 PM
End 1:09:14 PM
Elapsed Time 1:02:50

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-30 +/-3 %	+/-5	+/-0.3	+/-10
Last 5 Readings	12:54:43	59.23	7.43	815.37	16.33	7.33	-109.22
	12:57:44	59.86	7.40	821.19	19.72	7.06	-105.36
	13:00:46	60.66	7.38	828.64	21.47	6.88	-104.83
	13:03:46	61.38	7.36	836.22	25.02	6.78	-102.60
	13:06:47	62.14	7.35	841.95	27.28	6.69	-100.97
Variance in last 3 readings	13:00:46	0.81	-0.02	7.45	1.75	-0.17	0.52
	13:03:46	0.72	-0.02	7.58	3.54	-0.11	2.23
	13:06:47	0.75	-0.01	5.73	2.26	-0.08	1.63

Notes:

FINAL DTW = 6.89 FT
VOLUME PURGED = 5.32 GAL
SAMPLE TIME = 1308



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 22 [ft]
Pump placement from TOC 18 [ft]

Well Information:

Well Id CAMU-MW02R
Well diameter 2 [in]
Well total depth from TOC 19.95 [ft]
Depth to top of screen from TOC 8.55 [ft]
Screen length 134.4 [in]
Depth to Water from TOC 13.99 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 1.08 [in]

Start/End Time:

Start 9:18:34 AM
End 10:01:52 AM
Elapsed Time 0:43:18

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-30	+/-5	+/-0.3	+/-10
			+/-3 %				
Last 5 Readings	9:48:45	61.39	7.26	385.67	0.26	0.14	-87.74
	9:51:48	61.73	7.26	372.14	0.17	0.15	-86.07
	9:54:48	62.01	7.24	388.84	0.53	0.16	-82.73
	9:57:50	62.53	7.24	383.69	0.77	0.17	-81.01
	10:00:50	63.35	7.25	393.31	0.95	0.18	-78.40
Variance in last 3 readings	9:54:48	0.28	-0.02	16.70	0.35	0.01	3.34
	9:57:50	0.52	0.00	-5.15	0.25	0.01	1.71
	10:00:50	0.82	0.01	9.62	0.18	0.00	2.61

Notes:

FINAL DTW = 14.08
VOLUME PURGED = 2.84
SAMPLE TIME = 1001



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 22 [ft]
Pump placement from TOC 17 [ft]

Well Information:

Well Id CAMU-MW04
Well diameter 2 [in]
Well total depth from TOC 19.98 [ft]
Depth to top of screen from TOC 6.32 [ft]
Screen length 126 [in]
Depth to Water from TOC 9.58 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.36 [in]

Start/End Time:

Start 8:20:40 AM
End 8:37:08 AM
Elapsed Time 0:16:28

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-30 +/-3 %	+/-5	+/-0.3	+/-10
Last 5 Readings	8:23:41	58.34	7.01	906.21	6.12	0.61	-0.99
	8:26:43	58.04	6.98	900.49	4.91	0.27	-16.05
	8:29:43	57.85	6.97	897.36	3.82	0.20	-24.49
	8:32:46	57.92	6.97	897.77	3.45	0.17	-30.27
	8:35:46	57.92	6.97	896.15	3.08	0.16	-32.97
Variance in last 3 readings	8:29:43	-0.19	-0.01	-3.13	-1.09	-0.07	-8.43
	8:32:46	0.08	0.00	0.41	-0.37	-0.03	-5.78
	8:35:46	0.00	0.00	-1.61	-0.37	-0.01	-2.70

Notes:

FINAL DTW = 9.62 FT
VOLUME PURGED = 1.06 GAL
SAMPLE TIME = 0836



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 22 [ft]
Pump placement from TOC 18 [ft]

Well Information:

Well Id CAMU-MW05
Well diameter 2 [in]
Well total depth from TOC 20.2 [ft]
Depth to top of screen from TOC 9.29 [ft]
Screen length 126 [in]
Depth to Water from TOC 8.95 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0 [in]

Start/End Time:

Start 10:42:18 AM
End 11:05:37 AM
Elapsed Time 0:23:19

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
					+/-3 %			
Last 5 Readings		10:51:22	59.48	7.25	903.55	1.61	0.08	-35.30
		10:54:23	59.34	7.25	897.19	1.57	0.08	-39.36
		10:57:24	59.43	7.25	897.45	1.69	0.08	-41.97
		11:00:25	59.52	7.25	901.76	1.86	0.08	-43.81
		11:03:26	59.56	7.25	895.97	2.44	0.08	-45.05
Variance in last 3 readings		10:57:24	0.09	0.00	0.26	0.12	0.00	-2.61
		11:00:25	0.09	0.00	4.31	0.17	0.00	-1.84
		11:03:26	0.04	0.00	-5.78	0.57	0.00	-1.24

Notes:

FINAL DTW = 8.95 FT
VOLUME PURGED = 2.11 GAL
SAMPLE TIME = 1104



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 47 [ft]
Pump placement from TOC 42 [ft]

Well Information:

Well Id CAMU-P05
Well diameter 2 [in]
Well total depth from TOC 45.47 [ft]
Depth to top of screen from TOC 37.18 [ft]
Screen length 126 [in]
Depth to Water from TOC 8.78 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0 [in]

Start/End Time:

Start 10:40:24 AM
End 11:13:04 AM
Elapsed Time 0:32:40

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
					+/-3 %			
Last 5 Readings		10:58:32	62.23	7.82	950.74	21.14	1.93	-142.78
		11:01:32	62.24	7.74	982.08	13.18	1.21	-155.49
		11:04:34	62.27	7.69	999.66	8.43	0.70	-162.55
		11:07:35	62.36	7.66	1008.39	5.20	0.43	-166.66
		11:10:37	62.43	7.63	1014.69	4.23	0.41	-169.40
Variance in last 3 readings		11:04:34	0.04	-0.05	17.57	-4.75	-0.51	-7.06
		11:07:35	0.09	-0.03	8.74	-3.23	-0.27	-4.11
		11:10:37	0.07	-0.02	6.30	-0.97	-0.02	-2.74

Notes:

FINAL DTW = 45.70 FT
VOLUME PURGED = 2.11 GAL
SAMPLE TIME = 1112



Low Flow Groundwater Sampling Form

08/14/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 17 [ft]
Pump placement from TOC 14 [ft]

Well Information:

Well Id CAMU-MW06R
Well diameter 2 [in]
Well total depth from TOC 15.66 [ft]
Depth to top of screen from TOC 2.69 [ft]
Screen length 150 [in]
Depth to Water from TOC 5.51 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 2.88 [in]

Start/End Time:

Start 2:19:54 PM
End 2:37:35 PM
Elapsed Time 0:17:41

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
					+/-3 %			
Last 5 Readings	14:22:54	61.29	7.64	496.64	7.30	0.41	-114.66	
	14:25:57	61.42	7.54	497.30	5.79	0.35	-112.61	
	14:28:57	61.49	7.48	498.26	3.82	0.34	-112.01	
	14:31:58	61.24	7.44	493.36	2.65	0.32	-111.08	
	14:34:59	61.06	7.42	492.33	2.45	0.29	-110.18	
Variance in last 3 readings	14:28:57	0.07	-0.06	0.96	-1.97	-0.01	0.60	
	14:31:58	-0.25	-0.04	-4.89	-1.17	-0.02	0.94	
	14:34:59	-0.18	-0.03	-1.04	-0.20	-0.03	0.89	

Notes:

FINAL DTW = 5.75 FT
VOLUME PURGED = 1.188 GAL
SAMPLE TIME = 1437



Low Flow Groundwater Sampling Form

08/14/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 52 [ft]
Pump placement from TOC 45 [ft]

Well Information:

Well Id CAMU-P06R
Well diameter 2 [in]
Well total depth from TOC 49.89 [ft]
Depth to top of screen from TOC 42.43 [ft]
Screen length 60 [in]
Depth to Water from TOC 5.16 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.6 [in]

Start/End Time:

Start 2:18:41 PM
End 3:03:39 PM
Elapsed Time 0:44:58

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-30	+/-5	+/-0.3	+/-10
			+/-3 %				
Last 5 Readings	14:48:53	66.28	7.25	1217.85	18.31	1.38	-135.14
	14:51:55	65.93	7.26	1214.70	14.19	0.62	-145.84
	14:54:55	65.86	7.26	1212.70	11.31	0.29	-153.63
	14:57:58	65.38	7.27	1207.33	9.00	0.17	-158.76
	15:00:58	65.64	7.28	1210.82	8.27	0.13	-162.18
Variance in last 3 readings	14:54:55	-0.07	0.01	-2.00	-2.88	-0.32	-7.79
	14:57:58	-0.48	0.01	-5.38	-2.31	-0.13	-5.13
	15:00:58	0.26	0.01	3.49	-0.73	-0.04	-3.42

Notes:

FINAL DTW = 5.21 FT
VOLUME PURGED = 2.90 GAL
SAMPLE TIME = 1502



Low Flow Groundwater Sampling Form

08/14/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 18 [ft]
Pump placement from TOC 14 [ft]

Well Information:

Well Id CAMU-MW07
Well diameter 2 [in]
Well total depth from TOC 16.98 [ft]
Depth to top of screen from TOC 5.88 [ft]
Screen length 120 [in]
Depth to Water from TOC 7.84 [ft]

Pumping information:

Final pumping rate 260 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.24 [in]

Start/End Time:

Start 9:39:56 AM
End 10:00:12 AM
Elapsed Time 0:20:16

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-30	+/-5	+/-0.3	+/-10
				+/-3 %		+/-10 %	
Last 5 Readings	9:45:59	65.53	7.29	563.11	2.28	0.57	14.81
	9:48:59	65.59	7.29	563.47	1.44	0.52	12.93
	9:52:01	65.74	7.30	565.12	1.15	0.49	11.68
	9:55:01	65.60	7.30	565.36	1.00	0.48	9.84
	9:57:36	65.76	7.30	567.91	0.99	0.47	8.68
Variance in last 3 readings	9:52:01	0.15	0.00	1.64	-0.29	-0.03	-1.24
	9:55:01	-0.14	0.00	0.25	-0.15	-0.02	-1.84
	9:57:36	0.16	0.00	2.54	0.00	-0.01	-1.16

Notes:

FINAL DTW = 7.86 FT
VOLUME PURGED = 1.44 GAL
SAMPLE TIME = 1000



Low Flow Groundwater Sampling Form

08/14/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 54 [ft]
Pump placement from TOC 48 [ft]

Well Information:

Well Id CAMU-P07
Well diameter 2 [in]
Well total depth from TOC 51.64 [ft]
Depth to top of screen from TOC 46.2 [ft]
Screen length 60 [in]
Depth to Water from TOC 7.61 [ft]

Pumping information:

Final pumping rate 350 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.48 [in]

Start/End Time:

Start 9:43:28 AM
End 10:13:47 AM
Elapsed Time 0:30:19

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.1	+/-30	+/-5	+/-0.3	+/-10
				+/-3 %		+/-10 %	
Last 5 Readings	10:01:35	67.75	7.26	868.05	5.03	0.15	-197.99
	10:04:37	67.73	7.26	866.16	6.44	0.14	-201.80
	10:07:38	67.93	7.26	863.86	11.96	0.14	-202.86
	10:09:18	67.97	7.26	867.64	11.09	0.14	-200.72
	10:12:18	66.75	7.27	855.18	15.30	0.15	-204.48
Variance in last 3 readings	10:07:38	0.19	0.00	-2.30	5.52	0.00	-1.07
	10:09:18	0.04	0.00	3.78	-0.87	0.00	2.14
	10:12:18	-1.22	0.00	-12.46	4.21	0.01	-3.76

Notes:

FINAL DTW = 7.65 FT
VOLUME PURGED = 2.68 GAL
SAMPLE TIME = 1012



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type PERISTALTIC
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 12 [ft]
Pump placement from TOC 8 [ft]

Well Information:

Well Id CAMU-MW08
Well diameter 2 [in]
Well total depth from TOC 10.5 [ft]
Depth to top of screen from TOC 5.85 [ft]
Screen length 120 [in]
Depth to Water from TOC 7.9 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.48 [in]

Start/End Time:

Start 1:42:46 PM
End 2:34:59 PM
Elapsed Time 0:52:13

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
				+/-3 %				
Last 5 Readings		14:22:01	62.05	7.23	851.33	5.74	0.23	32.29
		14:25:02	62.00	7.24	849.90	3.94	0.29	41.74
		14:28:03	61.95	7.23	844.48	3.71	0.32	46.83
		14:31:05	61.91	7.23	843.99	2.18	0.30	46.65
		14:34:05	61.88	7.23	845.95	1.69	0.30	41.81
Variance in last 3 readings		14:28:03	-0.05	0.00	-5.43	-0.23	0.03	5.09
		14:31:05	-0.04	0.00	-0.49	-1.53	-0.02	-0.18
		14:34:05	-0.04	0.00	1.96	-0.49	0.00	-4.84

Notes:

FINAL DTW = 7.94

VOLUME PURGED = 3.43

SAMPLE TIME = 1434



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 49 [ft]
Pump placement from TOC 43 [ft]

Well Information:

Well Id CAMU-P08
Well diameter 2 [in]
Well total depth from TOC 46.95 [ft]
Depth to top of screen from TOC 40.77 [ft]
Screen length 64.8 [in]
Depth to Water from TOC 7.72 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0 [in]

Start/End Time:

Start 1:49:10 PM
End 2:11:52 PM
Elapsed Time 0:22:42

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
				+/-3 %				
Last 5 Readings		13:58:13	69.44	7.34	1214.11	12.64	0.68	-151.93
		14:01:15	67.81	7.37	1226.27	8.67	0.34	-162.88
		14:04:15	67.24	7.40	1227.33	5.06	0.20	-170.50
		14:07:18	66.77	7.42	1223.85	5.08	0.13	-175.59
		14:10:18	66.73	7.44	1223.71	3.81	0.11	-178.64
Variance in last 3 readings		14:04:15	-0.57	0.03	1.06	-3.61	-0.14	-7.62
		14:07:18	-0.46	0.02	-3.48	0.02	-0.07	-5.10
		14:10:18	-0.04	0.02	-0.14	-1.27	-0.02	-3.05

Notes:

FINAL DTW = 7.72 FT
VOLUME PURGED = 1.39 GAL
SAMPLE TIME = 1410



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 30 [ft]
Pump placement from TOC 25 [ft]

Well Information:

Well Id CAMU-MW09R
Well diameter 2 [in]
Well total depth from TOC 27.99 [ft]
Depth to top of screen from TOC 18.46 [ft]
Screen length 126 [in]
Depth to Water from TOC 16.71 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 0.12 [in]

Start/End Time:

Start 12:04:14 PM
End 12:42:23 PM
Elapsed Time 0:38:09

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
					+/-3 %			
Last 5 Readings	12:28:24	66.95	7.31	928.73	15.92	2.75	-53.21	
	12:31:25	66.88	7.31	929.95	16.98	2.41	-52.18	
	12:34:26	66.93	7.30	929.58	14.94	2.51	-52.13	
	12:37:27	67.09	7.30	933.56	14.32	2.54	-51.23	
	12:40:28	66.94	7.30	932.94	14.08	2.37	-51.65	
Variance in last 3 readings	12:34:26	0.05	0.00	-0.37	-2.04	0.10	0.05	
	12:37:27	0.16	0.00	3.98	-0.62	0.04	0.90	
	12:40:28	-0.15	-0.01	-0.62	-0.24	-0.17	-0.43	

Notes:

FINAL DTW = 16.72 FT
VOLUME PURGED = 2.44 GAL
SAMPLE TIME = 1241



Low Flow Groundwater Sampling Form

08/15/17

Troll 9500 Low Flow Sample

Project Information:

Operator Name C. PANNIER & J. KEEFE
Company Name WCG
Project Name USS GARY
Site Name CAMU

Pump Information:

Pump Model/Type BLADDER
Tubing Type LDPE
Tubing Diameter 0.38 [in]
Tubing Length 55 [ft]
Pump placement from TOC 50 [ft]

Well Information:

Well Id CAMU-P09
Well diameter 2 [in]
Well total depth from TOC 52.38 [ft]
Depth to top of screen from TOC 48.39 [ft]
Screen length 60 [in]
Depth to Water from TOC 17.11 [ft]

Pumping information:

Final pumping rate 250 [mL/min]
Sample rate 180 [sec]
Stabilized drawdown 3.96 [in]

Start/End Time:

Start 12:04:38 PM
End 12:40:08 PM
Elapsed Time 0:35:30

Low-Flow Sampling Stabilization Summary

		Time	Temp [F]	pH [pH]	Cond [μS/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings				+/-0.1	+/-30	+/-5	+/-0.3	+/-10
				+/-3 %				
Last 5 Readings	12:25:47	63.15	7.32	925.86	3.73	0.50	-144.32	
	12:28:48	63.07	7.31	925.64	6.52	0.45	-145.12	
	12:31:49	63.04	7.31	925.65	3.75	0.41	-143.11	
	12:34:51	63.06	7.31	925.42	5.83	0.37	-144.77	
	12:37:52	62.98	7.31	924.48	4.84	0.31	-146.43	
Variance in last 3 readings	12:31:49	-0.03	0.00	0.01	-2.78	-0.04	2.02	
	12:34:51	0.02	0.00	-0.23	2.08	-0.04	-1.66	
	12:37:52	-0.08	0.00	-0.94	-0.99	-0.05	-1.66	

Notes:

FINAL DTW = 17.44 FT
VOLUME PURGED = 2.38 GAL
SAMPLE TIME = 1240