



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW-1s
 Sampler: Audrey Yorke
 Pump Depth (BTOC): 27'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 07/01/14 Initial Depth to Water: 4.87' Total Depth: 29.20'
 Sampling date/time: 07/01/14 1135

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1112	200	5.55	5.12	2.11	74.0	1.68	17.0	-173	
1115	200	5.62 5.18	5.18 5.15	2.15	69.1	0.83	16.7	-194	07/01/14
1120	200	5.71	5.25	2.07	68.5	0.43	17.6	-213	
1125	200	5.77	5.26	2.02	58.1	0.39	17.8	-218	
1130	200	5.83	5.27	1.97	61.0	0.39	18.1	-220	
1135	Sample collected at MW-1s.								

BTOC = Below Top of Casing

Comments: Purge water was run through GAC prior to ground discharge.

Form Completed By: Audrey Yorke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 1D (U) upper / Henkels + McCoy Lot
 Sampler: Billie Buckwater (BWB)
 Pump Depth (BTOC): 165'
 Purging Method: Low Flow / Micro Purge w/ parameter stabilization
 Gauging date: 6/30/14 @ 1410 Initial Depth to Water: 16.00' * Total Depth: 174'
 Sampling date/time: 6/30/14 @ 1500 hrs

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1420	~ 300	8.41	6.36	φ.723	23φ	6.5	19.7	34	Notes: Page 1 of 1 Initial purge
1425	"	8.90'	6.44	φ.652	85.2	4.7	21.6	28	1500 ml
1430	"	8.99	7.49	φ.875	0.0	4.1	21.4	-113	3000 ml
1435	"	10.15	7.62	1.11	>999	4.0	17.8	-134	4500 ml
1440	"	13.00'	7.63	1.11	>999	3.4	20.1	-142	6000 ml
1445	"	13.10'	7.65	1.10	917	3.2	20.4	-144	7500 ml
1450	"	13.12	7.64	1.10	970	2.9	20.6	-146	9000 ml
1455	"	13.15'	7.65	1.10	95φ	2.6	21.0	-149	10,500 ml
1500:	Sample well /		All parameters stable			(turbidity > 50 NTU)			

BTOC = Below Top of Casing

Comments: Sunny, HOT ; Humid, 85°F

* Static WL gauged w/ Dedicated Tubing Removed.

Form Completed By: Billie Buckwater

** Purged water run through GAC prior to ground discharge.

*** Dispose of Dedicated well tubing.

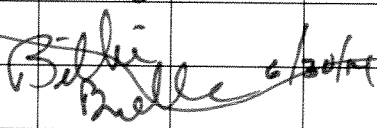


Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW ~~1 D (L) Lower~~ ^{6/30/14} MW-1D (L) Lower
 Sampler: Billie Buckwalter
 Pump Depth (BTOC): ≈ 275
 Purging Method: Low Flow / Micro Purge w/ parameter stabilization
 Gauging date: 6/30/14 @ 1300 Initial Depth to Water: 23.40' Total Depth: 300'
 Sampling date/time: 6/30/14 @ 1355

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1310	≈ 250	18.10'	6.34	0.636	0.0	7.9	21.5	24	Purge volume Initial Purge
1315	"	18.16	6.50	0.626	0.0	5.5	23.5	20	1250 ml
1320	"	18.30	6.81	0.741	0.0	5.5	21.2	-22	2500 ml
1325	"	20.30'	7.39	0.863	0.0	5.3	19.7	-98	3750 ml
1330	"	20.32'	7.67	0.935	0.0	4.8	19.9	-138	5000 ml
1335	"	20.36'	7.65	0.930	0.0	4.1	20.2	-143	6250 ml
1340	"	20.40	7.60	0.936	0.0	3.9	20.4	-139	7500 ml
1345	"	20.40	7.61	0.940	0.0	4.0	20.8	-140	8750 ml
1350	"	20.42	7.66	0.944	0.0	3.8	21.0	-141	1000 ml
1355	Sample well / All parameters stable								
									

BTOC = Below Top of Casing

Comments: Sunny HOT : Humid : 85°F

* Static WL gauged w/ NO tubing in well.

Form Completed By: Billie Buckwalter

* Purged water ran through GAC prior to ground discharge.



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
Well Number and Location: MW- 2S
Sampler: Audrey Yorke
Pump Depth (BTOC): 25'
Purging Method: Low Flow / Micro Purge
Gauging date: 07/01/14 Initial Depth to Water: 8.60' Total Depth: 29.00'
Sampling date/time: 07/01/14 0910

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
0845	200	10.20	4.13	2.52	544.0	1.31	16.4	153	AG 07/01/14
0850	200	11.10	4.14	2.40	468.0	0.65	16.9	126	
0855	200	11.93	4.15	2.38	315.0	0.56	18.4	125	
0900	200	12.82	4.17	2.39	312.0	0.57	18.0	125	
0905	200	13.76	4.20	2.41	289.0	0.52	18.6	125	
0910	Sample collected at		MW-2S.						

BTOC = Below Top of Casing

Comments: Purge water was run through GAC prior to gravel discharge.

Form Completed By: Audrey Yorke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 2D- UPPER
 Sampler: Billey Buckwalter (BSC)
 Pump Depth (BTOC): ~ 75'
 Purging Method: Low Flow / Micro Purge w/ permeable stabilization
 Gauging date: 7/1/14 @ 1015 Initial Depth to Water: 2.72' * Total Depth: 116.5'
 Sampling date/time: 7/1/14 @ 1100

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes / Purge volume
1025	~ 400	11.93	6.18	1.55	122	7.2	19.7	34	Initial Purge
1030	"	14.62	6.18	1.52	448	5.0	19.9	25	2000 ml
1035	"	16.00	6.24	1.51	642	4.2	20.4	13	4000 ml - 1 Gal
1040	"	16.34	6.28	1.50	4.88	3.9	19.6	6	6000 ml
1045	"	16.99	6.29	1.49	7999	3.3	21.1	3	8000 ml - 2 Gal
1050	"	17.11	6.30	1.49	7999	3.1	20.9	1	10000 ml
1055	"	17.16	6.32	1.50	7999	2.9	20.6	4	12000 ml - 3 Gal
1100 - Sample well (All parameters stable - Turbidity > 50 NTU)									

BTOC = Below Top of Casing

Comments: Sunny, HOT: Humid, 83°F

* Static WL Gauged w/ dedicated well-tubing removed

Form Completed By: Billey Buckwalter

*** Purged water ran through GAC prior to ground discharge

NOTE: well tubing discarded after sampling.



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 2D - Lower

Sampler: Billie Buckwalter (BO)

Pump Depth (BTOC): 210'

Purging Method: Low Flow / Micro Purge w/ Dissolved Oxygen Stabilization

Gauging date: _____ Initial Depth to Water: 12.90' Total Depth: 226'

Sampling date/time: 7/1/14 @ 1000

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes / Purged Volume
0913	~400	7.61	6.49	0.544	0.0	10.8	18.9	-14	Initial Purge
0918	"	9.00'	6.60	0.588	14.3	7.9	19.1	-43	2000 ml
0923	"	9.22'	6.59	0.637	5.0	6.1	19.7	-49	4000 ml - 160'
0928	"	10.30'	6.90	1.23	280	5.2	18.4	-91	6000 ml
0933	"	11.00	7.10	1.78	325	4.5	18.5	-128	8000 ml - 260'
0938	"	11.31	7.28	1.57	850	4.1	19.1	-142	10,000 ml
0943	"	11.40'	7.36	1.22	>999	3.7	19.1	-154	12000 ml - 360'
0948	"	11.51	7.40	1.23	7999	3.4	20.0	-159	14000 ml
0953	"	11.55'	7.42	1.19	7999	3.2	20.1	-160	16,000 ml - 460'
1000: Sample well / All parameters stable (Turbidity > 50 NTU +)									

BTOC = Below Top of Casing

Comments: Sunny, HOT: Humid, 80°F

* Static WL gauged w/ Decontaminated well tubing, Removed.

Form Completed By: _____

xx Purged water Ran through GAC prior to ground discharge

NOTE: well tubing discarded after Sampling Event.



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW-35

Sampler: Audrey Yodanis

Pump Depth (BTOC): 28'

Purging Method: Low Flow / Micro Purge

Gauging date: 06/30/14 Initial Depth to Water: 5.42' Total Depth: 29.80'

Sampling date/time: 06/30/14 1040

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1012	200	5.48	4.37	0.361	106.0	3.76	15.1	128	
1015	200	4.20 5.70 4.20 Avg 06/30/14	4.20	0.346	59.3	0.93	13.6	132	
1020	200	5.80	4.03	0.341	45.3	0.63	13.6	134	
1025	200	5.82	4.06	0.339	62.9	0.60	13.7	133	
1030	200	5.85	4.07	0.337	62.0	0.60	13.8	131	
1035	200	5.85	4.09	0.335	59.0	0.61	13.8	129	
1040	Sample collected at MW-35								
Avg 06/30/14									

BTOC = Below Top of Casing

Comments: Purge water was run through GAC prior to ground discharge.

Form Completed By: Audrey Yodanis



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW-3D (U) upper / Henkels & McCoy CoT

Sampler: Billie Buckwalter (DB)

Pump Depth (BTOC): ~ 80'

Purging Method: Low Flow / Micro Purge w/ Parameter Stabilization

Gauging date: 6/30/14 @ 11:15 Initial Depth to Water: 5.14' * Total Depth: 106.5'

Sampling date/time: 6/30/14 @ 12:15

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes / Pump volume
1135	~ 350	5.80	7.97	Ø.424	257	8.1	17.6	-151	Initiate Purge
1140	"	5.82	7.69	Ø.452	602	7.0	17.1	-132	1750
1145	"	5.85	7.41	Ø.447	571	6.0	17.6	-105	3500 gal → 1601
1150	"	5.85	7.28	Ø.447	679	5.6	17.1	-94	5250 gal
1155	"	5.86	7.41	Ø.439	520	5.1	17.2	-111	7000 gal → 2901
1200	"	5.86	7.38	Ø.440	418	4.8	16.9	-109	8750 gal
1205	"		7.33	Ø.441	393	4.5	17.1	-105	10,500 gal → 3901
1210	"		7.32	Ø.443	476	4.3	17.0	-103	12,250 gal
1215	Sample well (All parameters stable (Turbidity > 90 + 7))								
133 / 6/30/14									

BTOC = Below Top of Casing

Comments: Swampy, Hot: Humid. 85°F

* Static W.L. Gauged w/ Disconnected Tubing Removed From Well.

Form Completed By: Billie Buckwalter

** Purged Water Ran through GAC prior to Ground discharge.

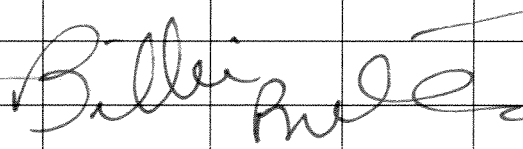


Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 3D (Lower) / Henkels : McCoy Lot
 Sampler: Bill E Buckwell, (ECC)
 Pump Depth (BTOC): ~180'
 Purging Method: Low Flow / Micro Purge w/ parameter stabilization
 Gauging date: 6/30/14 Initial Depth to Water: 13.32'* Total Depth: 210.5'
 Sampling date/time: 6/30/14 @ 1105 * Tubing Removed from well.

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes	Pumped volume
1025	~300	9.61	9.36	0.306	254	6.3	21.8	-212	End of purge	—
1030	"	9.64	9.04	0.296	258	5.9	21.9	-225	-	1500ml
1035	"	9.76	9.42	0.288	151	4.4	23.9	-253	-	3000ml
1040	"	10.00	10.01	0.332	76.5	3.1	29.6	-269	-	4500ml
1045	"	10.04	9.96	0.367	15.2	2.9	30.8	-287	-	6000ml
1050	"	10.11	10.62	0.396	91.9	3.4	25.1	-292	-	7500ml
1055	"	10.15	10.60	0.392	96.1	3.3	26.0	-292	-	9000ml
1100	"		10.65	0.393	98.4	3.1	26.7	-290	-	10,500ml
1105:	Sample w/ well / All parameters stable (Turbidity > 50 NTU :.P)									
 Bill E Buckwell 6/30/14										

BTOC = Below Top of Casing

Comments: Sunny, Hot : Humid, 80°F

Form Completed By: Bill E Buckwell

* Purged water flow through GAC prior to ground discharge.



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 4D- UPPER

Sampler: Billie Buckwalter (000)

Pump Depth (BTOC): ~110'

Purging Method: Low Flow / Micro Purge w/ Parameter Stabilization

Gauging date: 7/2/14 @ 1000 Initial Depth to Water: 13.50' (approx) Total Depth: ~118'

Sampling date/time: 7/2/14 @ 1140

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes / Purge Volume
1055	~400	13.20'	7.72	0.711	>999	12.7	14.5	-150	Initiate Purge
1100	"	14.65'	7.64	0.715	>999	9.7	14.8	-151	2000 ml
1105	"	14.81'	7.50	0.726	400	7.0	15.0	-148	4000 ml
1110	"	15.00'	7.43	0.727	174	6.1	15.0	-142	~1.5 gal
1115	"	15.24'	7.30	0.734	83.8	5.0	15.2	-127	~2.0 gal
1120	"	15.30'	7.18	0.737	53.8	4.4	15.5	-115	~2.5 gal
1125	"	15.34'	7.16	0.736	49.9	4.4	15.5	-114	~3.0 gal
1130	"	15.41'	7.14	0.730	39.4	4.6	15.9	-110	~3.5 gal
1135	"	15.45'	7.19	0.732	26.6	4.0	16.0	-111	~4.0 gal
1140	Sample well / All parameters stable								

BTOC = Below Top of Casing

Comments: Sunny, HOT: Humid, 90°F

* Purged water containerized (55 GAL. Drum)

Form Completed By: Billie Buckwalter

* Dedicated well tubing discarded AFTER sampling well.

NOTE: Duplicate Sample Collected @ well (Duplicate -3 @ 1600)



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
Well Number and Location: MW-55
Sampler: Audrey Yorke
Pump Depth (BTOC): 28'
Purging Method: Low Flow / Micro Purge
Gauging date: 06/30/14 Initial Depth to Water: 7.03' Total Depth: 29.40'
Sampling date/time: 06/30/14 1435

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1410	200	7.22	4.09	0.186	90.2	8.08	16.0	134	
1415	200	7.23	4.29	0.181	101.0	6.54	16.7	142	
1420	200	7.28	4.29	0.183	102.0	6.63	16.8	144	
1425	200	7.29	4.29	0.183	104.0	6.57	16.7	143	
1430	200	7.30	4.29	0.181	103.0	6.38	17.1	144	
1435	Sample collected at MW-55.								
06/30/14									

BTOC = Below Top of Casing

Comments: Purge water was run through GAC prior to ground discharge.

Form Completed By: Audrey Yorke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 50

Sampler: ZB & BBS

Pump Depth (BTOC): 80

Purging Method: Low Flow / Micro Purge

Gauging date: 7/3/14 Initial Depth to Water: 15.10 Total Depth: 93.0

Sampling date/time: 7/3/14 @ 1145

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1110	200 mL/min	15.10	7.81	0.804	-5.0	4.95	15.33	81	}
1115		15.40	7.19	1.09	-5.0	3.45	14.70	62	
1120		15.60	7.08	1.10	-5.0	3.44	14.87	62	
1125		15.82	7.06	1.10	-5.0	3.45	14.95	62	
1130		15.50	7.05	1.10	-5.0	3.47	14.94	65	
1135		16.50	7.05	1.10	-5.0	3.45	14.92	67	
1140		15.50	7.05	1.11	-5.0	3.41	14.91	67	
Sample at 1145									
ZB 7/3/14									

BTOC = Below Top of Casing

Comments: well purged into GAC, tubing discarded after sample

Form Completed By: ZB

Dup-4 taken here at 1800



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 5L

Sampler: 2B 2 B&B

Pump Depth (BTOC): 150'

Purging Method: Low Flow / Micro Purge

Gauging date: 7/3/14 Initial Depth to Water: 11.6' Total Depth: 187.5'

Sampling date/time: 7/3/14 @ 1055

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1010	20 ml/min	11.6	9.00	0.326	71.3	5.68	15.55	11	
1015		14.48	9.14	0.295	50.9	1.50	16.46	3	
1020		14.92	8.89	0.296	33.3	0.74	16.84	-2	
1025		16.00	7.70	0.340	-5.0	0.38	16.52	-102	
1030		16.12	7.64	0.555	-5.0	0.32	16.61	-133	
1035		16.15	7.62	0.560	-5.0	0.32	16.72	-145	
1040		16.18	7.62	0.564	-5.0	0.26	16.77	-154	
1045		16.21	7.63	0.566	-5.0	0.22	16.80	-157	
1050		16.25	7.63	0.566	-5.0	0.23	16.80	-160	
		sample MW-5L at 1055							
<p><i>JD 7/3/14</i></p>									

BTOC = Below Top of Casing

Comments: Gained water, disposed of tubing after sample

Form Completed By: JD



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 65
 Sampler: Andrew Yohne
 Pump Depth (BTOC): 27'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 06/30/14 Initial Depth to Water: 3.85' Total Depth: 28.90'
 Sampling date/time: 06/30/14 1315

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1245	200	4.02	4.43	0.167	193.0	4.99	17.0	78	
1250	200	4.22	4.29	0.153	375.0	0.96	14.6	109	
1255	200	4.48 4.20	4.20	0.150	406.0	0.63	15.3	117	
1300	200	4.52	4.18	0.150	280.0	0.60	15.8	122	
1305	200	4.70	4.21	0.147	285.0	0.51	17.8	127	
1310	200	4.85	4.22	0.151	283.0	0.55	17.0	130	
1315	Sample collected at MW-65.								
by 06/30/14									

BTOC = Below Top of Casing

Comments: Purge water was run through a GAC prior to ground discharge.

Form Completed By: Andrew Yohne



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 7s

Sampler: Audrey Yorke

Pump Depth (BTOC): 28.50'

Purging Method: Low Flow / Micro Purge

Gauging date: 06/30/14 Initial Depth to Water: 2.50 Total Depth: 29.40'

Sampling date/time: 06/30/14 1200

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1120	200	2.80	4.95	0.832	858.0	3.43	15.0	-125	
1125	200	2.81	4.94	0.821	612.0	0.70	16.3	-129	
1130	200	2.83	4.89	0.814	551.0	0.40	17.9	-132	
1135	200	2.87	4.90	0.823	436.0	0.41	18.3	-130	
1140	200	2.96	4.84	0.788	420.0	0.43	17.4	-116	
1145	200	2.97	4.88	0.786	308.0	0.34	18.5	-118	
1150	200	2.99	4.89	0.796	309.0	0.34	19.1	-116	
1155	200	3.01	4.90	0.795	307.0	0.36	19.4	-115	
1200	Sample collected at MW-7s.								
M 06/30/14									

BTOC = Below Top of Casing

Comments: Purge water was run through BAC prior to ground discharge

Form Completed By: Audrey Yorke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 7V

Sampler: ZJS JB

Pump Depth (BTOC): 140

Purging Method: Low Flow / Micro Purge

Gauging date: 7/3/14 Initial Depth to Water: -1.2' Total Depth: 155

Sampling date/time: 7/3/14 @ 0930

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes	
0840	200 ml/min	0.0	6.47	0.833	337.0	2.31	14.01	-138	}	
0845		0.2	6.42	0.815	216.0	1.30	13.93	-151		
0850		0.4	7.02	0.799	87.2	1.27	13.88	-150		
0855		0.4	7.06	0.807	28.2	1.27	13.92	-149		
0900		0.4	7.08	0.796	33.3	1.18	13.96	-149		
0905		0.4	7.09	0.807	0.0	1.01	14.08	-149		
0910		0.4	7.10	0.802	0.0	1.01	14.02	-148		
0915		0.4	7.11	0.802	0.0	0.81	14.01	-148		
0920		0.4	7.14	0.807	0.0	0.82	14.03	-148		
0925		0.4	7.14	0.801	0.0	0.80	14.04	-148		
			Sample at 0930							
						ZJS 7/3/14				

BTOC = Below Top of Casing

Comments:

Well is artesian - Discarded tubing after sampling, purged into C&C

Form Completed By:

ZJS



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
Well Number and Location: MW- 7D Lower
Sampler: Billie Buckwalter
Pump Depth (BTOC): 195'
Purging Method: Low Flow / Micro Purge
Gauging date: 07/02/14 Initial Depth to Water: 0.00' Total Depth: 210'
Sampling date/time: 07/02/14 1415

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1340	300	0.00	7.42	0.806	25.6	14.2	18.6	-105	
1345	300	0.00	7.13	0.750	7.9	12.8	18.3	-86	
1350	300	0.00	6.83	0.844	246.0	9.0	17.9	-63	
1355	300	0.00	6.78	0.907	247.0	7.4	18.5	-60	
1400	300	0.30	6.74	0.925	342.0	6.3	18.9	-57	
1405	300	0.30	6.71	0.927	347.0	6.1	19.8	-54	
1410	300	0.30	6.68	0.932	357.0	5.9	19.6	-50	
1415	Sample collected at MW-7D-lower.								
By 07/02/14									

BTOC = Below Top of Casing

Comments: Purge water run through GAC prior to gravel discharge.

Form Completed By: Andrew Forke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 0D-UPPER

Sampler: Bille Buckwater (BBB)

Pump Depth (BTOC): ≈ 100'

Purging Method: Low Flow / Micro Purge w/ parameter stabilization

Gauging date: 7/1/14 @ 1405 Initial Depth to Water: 15.26' Total Depth: 119'

Sampling date/time: 7/1/14 @ 1500

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1425	≈ 400	14.14'	7.71	1.08	673	6.3	14.7	-163	page valve Initiate purge
1430	"	14.20	7.61	1.06	200	4.8	16.2	-164	2000ml
1435	"	14.22	7.56	1.06	136	4.2	15.6	-163	4000ml - 1GAL
1440	"	14.25'	7.52	1.06	64.2	3.5	15.6	-161	6000ml
1445	"	14.25'	7.49	1.06	33.6	3.1	15.9	-160	8000ml - 2GAL
1450	"	14.30'	7.46	1.06	8.4	2.9	15.6	-158	10,000ml
1455	"	14.32'	7.45	1.08	9.2	2.8	15.6	-156	12,000ml - 3GAL
1500 -	Sample well	(All Parameters are stable)							

BTOC = Below Top of Casing

Comments: Sunny, HOT & Humid, 90's °F

* Purge water contained in a 55 Gallon Drum.

Form Completed By: Bille Buckwater

** Dedicated well tubing discarded after sampling.



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 8D-Lower

Sampler: 3.11.18 Buckwelder (888)

Pump Depth (BTOC): ≈ 220'

Purging Method: Low Flow / Micro Purge w/ Parameter Stabilization

Gauging date: 7/11/14 @ 1255 Initial Depth to Water: 24.55' Total Depth: 246.5'

Sampling date/time: 7/11/14 @ 1355

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1314	≈ 500	21.84'	7.17	0.589	>999	8.6	17.7	-97	Initiate Purge
1319	"	22.30	7.19	0.579	317	6.1	20.1	-99	2500ml
1324	"	24.41'	7.48	0.582	749	5.8	18.8	-127	5000 ml 16 gal
1329	"	26.21'	7.53	0.580	520	5.2	18.0	-149	7500 ml 20 gal
1334	"	28.11'	7.38	0.573	178	4.3	19.3	-136	10,000 ml 26 gal
1339	"	29.44'	7.38	0.574	45.5	4.2	18.3	-136	12,500 ml 36 gal
1344	"	30.62	7.28	0.585	21.1	4.0	18.0	-127	15000 ml 40 gal
1349	"	30.68	7.27	0.580	0.0	3.7	18.4	-129	17,500 ml 46 gal
1355:	Sample well / All parameters = stable								
(BIB) 7/11/14									

BTOC = Below Top of Casing

Comments: Sunny, HOT ; Humid , 87°F

* Purge water contained in a 55 gal drum.

Form Completed By: Beth Baber



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 9 upper
 Sampler: Zank Bentley
 Pump Depth (BTOC): 45'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 7/1/14 Initial Depth to Water: 16.50 Total Depth: 102.65
 Sampling date/time: 7/1/14 @ 1550

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1530	200 ml/min	23.30	7.12	1.08	17.0	2.38	14.43	82)
1535		21.00	7.12	1.07	16.8	2.20	14.31	72	
1540		20.83	7.12	1.07	20.2	2.14	14.24	70	
1545		20.41	7.13	1.07	21.3	2.14	14.21	69	
		Sample		Mn	-90	at 1550			
7/1/14									

BTOC = Below Top of Casing

Comments: Well cannot yield 2 gpm - draw water level down to 30'

Form Completed By: ZD

Development purge volume $(60 + 10) \times (1.5 \text{ gal/ft}) = 210 \text{ gal}$

1400 Start pump / surge Mn - 90 (2 gpm) 0.5
 1530 End pump / surge - Development.



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW-9 Lower
 Sampler: 2mk bench
 Pump Depth (BTOC): 145
 Purging Method: Low Flow / Micro Purge
 Gauging date: 7/1/14 Initial Depth to Water: 16.47 Total Depth: 191.0
 Sampling date/time: 7/1/14 @ 1330

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1300	200 ml/min	17.71	7.17	0.872	11.3	3.15	15.02	76	}
1305		17.60	7.17	0.863	12.3	3.08	16.07	75	
1310		17.40	7.21	0.863	11.0	3.21	15.56	80	
1315		17.65	7.22	0.823	11.0	2.86	15.03	67	
1320		17.42	7.23	0.836	8.8	2.80	15.40	59	
1328		17.21	7.24	0.875	7.2	2.80	15.32	63	
		Sample		at 1330					
JA 7/1/14									

BTOC = Below Top of Casing

Comments: well can only yield ~2 Gpm - Drain down to 18"

Form Completed By: JL

Development purge volume $(50 + 10) (1.5 \text{ gal/ft}) = 180 \text{ gallons}$
 @ 910 start development @ 2 Gpm 0.5

@ 950 pause to help colon water (DEP) sample bench
 1210 continue purge/development - 2 gpm
 1300 end development - water is very clear since initial purge

Rinse at (1540) ~~★~~ Dup 1 taken here - 1800



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 10 upper
 Sampler: ZK
 Pump Depth (BTOC): 105'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 6/30/14 Initial Depth to Water: 23.66 Total Depth: 110.0
 Sampling date/time: 6/30/14 @ 1520

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1440	200 26/min	30.30	7.27	0.607	5.0	3.90	15.09	60	murky
1445		29.70	7.31	0.573	428.0	3.33	14.98	85	
1450		29.43	7.22	0.554	1030	3.71	14.78	78	
1455		29.00	7.22	0.552	57.6	3.73	14.64	71	
1500		28.47	7.20	0.549	24.4	3.57	14.78	64	
1505		28.75	7.21	0.548	18.6	3.53	14.62	62	
1510		28.20	7.20	0.547	11.9	3.53	14.39	60	
1515		28.01	7.20	0.546	0.0	3.52	14.38	61	
Sample MW - 10 upper at 1520									
30 6/30/14									

BTOC = Below Top of Casing

Comments: at end of Development water did not appear any clearer than beginning of purge - yielded 1.5 → 2 Gpm

Form Completed By: ZK - well quickly recovered
Development screen length (70+10)(1.5 241)
240 gal
Start 1245 at 2 Gpm @ 0.5 =

End 1440 - well could yield 1.5 → 2 Gpm but nothing higher - drew water level from 23.66' to 41.2'



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 10 Diver

Sampler: ZS

Pump Depth (BTOC): 185

Purging Method: Low Flow / Micro Purge

Gauging date: 6/30/14 Initial Depth to Water: 28.55 Total Depth: 200.0

Sampling date/time: 6/30/14 @ 1200

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1130	200 ml/min	28.70	6.99	0.545	16.1	4.29	17.62	145	}
1135		28.70	7.08	0.543	67.5	4.48	16.40	72	
1140		28.70	7.08	0.541	189.0	4.90	16.76	77	
1145		28.70	7.09	0.535	59.1	4.99	16.80	76	
1150		28.70	7.06	0.535	61.1	5.00	16.76	76	
1155		28.70	7.08	0.534	60.1	5.03	16.67	77	
		Sampled at		1200					
 <div style="font-size: 2em; font-weight: bold; opacity: 0.5;"> 6/30/14 </div> 									

BTOC = Below Top of Casing

Comments: water appears clear during development w/no drawdown at ~ 2 gpm

Form Completed By: ZS

Development screen length $(30 + 10) \times (1.5 \frac{gal}{ft}) = 120 \frac{gal}{min}$

1027 shut pump & surge @ 0.5

- water appears clear & not turbid

1025 end pump & surge / development



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: ~~MW~~ Ow-4U
 Sampler: Zack Bonty
 Pump Depth (BTOC): 90
 Purging Method: Low Flow / Micro Purge
 Gauging date: 7/2/14 Initial Depth to Water: 8.53 Total Depth: 128
 Sampling date/time: 7/2/14 @ 1020

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
0940	200 mL/min	11.50	10.80	0.755	-5.0	1.19	18.18	-97	}
0945		15.92	8.17	0.534	-5.0	0.63	15.91	-106	
0950		16.16	8.08	0.539	-5.0	0.58	15.63	-127	
0955		16.42	7.84	0.528	-5.0	0.47	17.83	-117	
1000		16.79	7.84	0.527	-5.0	0.47	17.88	-112	
1005		16.92	7.83	0.526	-5.0	0.45	18.69	-100	
1010		17.09	7.83	0.525	-5.0	0.46	18.70	-100	
1015		17.14	7.84	0.523	-5.0	0.45	18.68	-99	
Sample at 1020									
7/2/14									

BTOC = Below Top of Casing

Comments: very murky, wet low field.

Form Completed By: ZB



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: ~~AW~~ OW-4 L
 Sampler: ZB
 Pump Depth (BTOC): 200'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 7/2/14 Initial Depth to Water: 2' Total Depth: 249.2
 Sampling date/time: 7/2/14 @ 0905

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
0840	200 ml/min	2'	7.72	0.376	31.9	4.91	17.42	-173	}
0845		2.2'	7.53	0.379	3.2	1.49	16.16	-152	
0850		2.3	7.52	0.379	3.2	1.47	16.12	-153	
0855		2.4	7.54	0.378	2.2	1.45	16.10	-154	
0900		2.4	7.54	0.379	1.4	1.39	16.12	-154	
Sample at 0905									
7/2/14									

BTOC = Below Top of Casing

Comments: Hot & Humid

Form Completed By: ZB



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: OW-6 Upper

Sampler: Jack Berth

Pump Depth (BTOC): 80.0'

Purging Method: Low Flow / Micro Purge

Gauging date: 7/2/14 Initial Depth to Water: 0.0 Total Depth: 230

Sampling date/time: 7/2/14 @ 1205

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1130	200 ml/min	0.0	7.80	0.545	60.9	4.87	19.78	111	
1135		0.6	7.32	0.543	111.0	1.77	21.74	105	cell in shadow to shade
1140		0.8	7.42	0.539	-5.0	0.82	17.51	35	}
1145		0.9	7.43	0.599	-5.0	0.81	17.58	34	
1150			7.41	0.594	-5.0	0.87	17.93	30	
1155			7.40	0.589	-5.0	0.90	17.96	30	
1200			7.39	0.588	-5.0	0.93	17.34	32	
		sample		OW-6L	at		1205		
JH 7/2/14									

BTOC = Below Top of Casing

Comments: very hot & humid out - well is not artesian

Form Completed By: JH



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: GW-6 Lower
 Sampler: ZB
 Pump Depth (BTOC): 240'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 7/2/14 Initial Depth to Water: -6.5 Total Depth: 260
 Sampling date/time: 7/2/14 @ 1340

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes	
1245	200 mL/min	0.0	7.63	0.388	420.0	1.9	17.29	-123		
1250		0.0	7.63	0.394	681.0	1.20	17.18	-122		
1255		0.1	7.63	0.394	5.0	1.20	17.02	-123		
1300		0.2	7.63	0.394	763.0	1.20	17.81	-123		
1305		0.2	7.63	0.396	400.0	0.85	16.77	-124		
1310		0.3	7.63	0.396	465.0	0.84	16.76	-125		
1315		0.3	7.63	0.397	214.0	0.69	16.92	-126		
1320			7.64	0.400	115.0	0.53	17.05	-130		
1325			7.64	0.401	97.5	0.52	17.21	-130		
1330			7.64	0.400	97.0	0.53	17.29	-130		
1335			7.65	0.399	92.0	0.52	18.05	-133		
1340			Sample @ -6 Lower							

BTOC = Below Top of Casing

Comments: well is artesian.

Form Completed By: Zack Bantley



Low-Flow Groundwater Sampling Log (Field Sheet)

Page 1 of 1

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
Well Number and Location: MW-1
Sampler: Audrey Jarke
Pump Depth (BTOC): 0-29' 15'
Purging Method: Low Flow / Micro Purge
Gauging date: 07/01/14 Initial Depth to Water: 2.07' Total Depth: 30.10'
Sampling date/time: 07/01/14 1030

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1003	200	2.92	4.74	0.854	111.0	1.71	13.9	-44	5/11/10/14 BY
1005	200	2.98	4.70	0.840	1113.0	1.20	15.5	-41	
1010	200	2.78	4.65	0.834	80.6	0.98	16.2	-39	
1015	200	3.01	4.62	0.833	69.8	0.67	16.4	-37	
1020	200	3.12	4.61	0.833	66.1	0.59	17.0	-38	
1025	200	3.22	4.60	0.837	60.5	0.57	16.7	-39	
1030	Sample collected at MW-1								
By 07/01/14									

BTOC = Below Top of Casing

Comments: Purge water was run through GAC prior to ground discharge

Form Completed By: Audrey Jarke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
Well Number and Location: MW-4
Sampler: Audrey Yorke
Pump Depth (BTOC): 22'
Purging Method: Low Flow / Micro Purge
Gauging date: 07/02/14 Initial Depth to Water: 12.30' Total Depth: 30.00'
Sampling date/time: 07/02/14 0920

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
0855	200	12.65	3.90	0.984	109.0	2.91	15.6	91	
0900	200	12.85	3.96	0.964	121.0	0.72	15.1	49	
0905	200	13.11	3.93	0.962	125.0	0.49	14.9	28	
0910	200	13.22	3.88	0.961	119.0	0.44	14.7	24	
0915	200	13.37	3.91	0.959	116.0	0.45	14.8	25	
0920	Sample collected at MW-4.								
07/02/14									

BTOC = Below Top of Casing

Comments: Purge water was drummed.

Form Completed By: Audrey Yorke



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 8
 Sampler: Audrey Yerbe
 Pump Depth (BTOC): 25'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 07/02/14 Initial Depth to Water: 15.60' Total Depth: 30.10'
 Sampling date/time: 07/02/14 1230

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1205	200	12.40	5.06	1.04	178.0	1.02	15.0	-160	
1210	200	13.13	5.10	1.01	123.0	0.48	16.8	-184	
1215	200	13.21	5.16	1.05	118.0	0.44	19.0	-192	
1220	200	13.26	5.25	1.03	117.0	0.40	21.5	-200	
1225	200	13.32	5.29	1.05	112.0	0.42	20.4	-203	
1230	Sample collected at MW-8.								
07/02/14									

07/02/14

BTOC = Below Top of Casing

Comments: Purge water was drummed.

Form Completed By: Audrey Yerbe



Low-Flow Groundwater Sampling Log (Field Sheet)

Page 1 of 1

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
Well Number and Location: MW-12
Sampler: Audrey Gerke
Pump Depth (BTOC): 9.5'
Purging Method: Low Flow / Micro Purge
Gauging date: 07/01/14 Initial Depth to Water: 3.15' Total Depth: 10.00'
Sampling date/time: 07/01/14 1530

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1500	300	3.33	4.85	0.648	-5.0	2.83	22.6	-116	7/10/14 AG
1505	300	3.43	4.82	0.627	-5.0	1.26	23.6	-104	
1510	300	3.55	4.87	0.618	-5.0	0.96	25.3	-106	
1515	300	3.83	4.74	0.608	462.0	0.74	21.1	-78	
1520	300	4.02	4.70	0.600	427.0	0.81	22.1	-71	
1525	300	4.11	4.72	0.602	429.0	0.89	22.4	-76	
1530	Sample collected at MW-12.								

BTOC = Below Top of Casing

Comments: Purge water was run through GAC prior to ground discharge.

Form Completed By: Audrey Gerke



Low-Flow Groundwater Sampling Log

(Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263

Well Number and Location: MW- 13

Sampler: Audrey Jerke

Pump Depth (BTOC): 20'

Purging Method: Low Flow / Micro Purge

Gauging date: 07/01/14 Initial Depth to Water: 10.00' Total Depth: 28.10'

Sampling date/time: 07/01/14 1340

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1305	200	10.49	4.30	0.98	117.0	5.29	15.8	76	
1310	200	10.88	4.27	0.97	139.0	4.16	16.8	91	
1315	200	11.12	4.25	0.96	152.0	3.85	16.9	93	
1320	200	11.14	4.20	0.94	155.0	3.75	18.6	114	
1325	200	11.92	4.14	0.93	236.0	4.52	15.0	117	
1330	200	12.70	4.16	0.90	242.0	4.76	15.4	119	
1335	200	12.90	4.17	0.91	243.0	4.78	16.0	117	
1340	Sample collected at MW-13								

BTOC = Below Top of Casing

Comments: Purge water was ~~run through~~ ^{drummed} GAC prior to ~~ground discharge~~ ^{07/01/14} & Duplicate 2 collected here

Form Completed By: Audrey Jerke



Low-Flow Groundwater Sampling Log (Field Sheet)

Project Name and Number: HOFF VC SITE - Perkiomenville PA, GTAC5-1-263
 Well Number and Location: MW- 14
 Sampler: Andrew Gerke
 Pump Depth (BTOC): 14'
 Purging Method: Low Flow / Micro Purge
 Gauging date: 07/02/14 Initial Depth to Water: 9.25' Total Depth: 14.45
 Sampling date/time: 07/02/14 1111

FIELD MEASUREMENTS

Time	Rate (mL/min)	Water Level (BTOC)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	OrP (mV)	Notes
1045	200	9.43	4.81	1.58	68.7	3.82	17.3	-100	
1050	200	9.72	4.69	1.53	85.0	0.66	17.4	-103	
1055	200	9.80	4.85	1.49	78.7	1.99	22.8	-115	
1100	200	9.85	4.89	1.52	80.5	1.98	23.9	-116	
1105	200	10.05	4.86	1.53	85.0	2.03	21.2	-106	
1110	Sample collected at		MW-14.						
									07/02/14 07/02/14

BTOC = Below Top of Casing

Comments: Purge water was drummed.

Form Completed By: Andrew Gerke