

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 28, 2016
Project Location:	Salisbury, NC	Purge Time:	120 Minutes
Project Number:	7126-16-032A	Sample Date:	September 28, 2016
Source Well:	GWA-18D	Sample Time:	14:27
Locked?:	Yes	Weather:	Sunny, Warm
Sampled By:	David Klemm	Air Temp:	85 ° F
Flow Through Cell Serial No.:	13K100921	Pump Serial No.:	24710
		Calibration Date:	September 28, 2016

Water Level & Well Data

Measuring Point:		Top of Casing		Well Volume	
Depth to Water:	127.78	ft-TOC	Well Diameter	2	inch
Total Well Depth:	155.90	ft-TOC	Water Volume	4.6	Gal
Height of Water Column:	28.12	feet	3 * Well Volume	13.77	Gal
Screen Length:	5	feet	5 * Well Volume	22.94	Gal
Stickup:	2.9	ft-GRD			

Well Purging Information

Purge Method:	Submersible Pump	Start Time:	12:24	End Time:	14:24
(If Used) Bladder Pump Control Settings:	On (sec): 153	Off (sec):		Pressure:	psi
Pump Intake Depth from Top of Casing:	153	ft-TOC			
Water Column Above Pump Intake:	25.62	feet	Flow Through Cell Vol:		mL
DTW-TOC at 25% Drawdown of WC Above Pump:	134.19	ft-TOC	Comments:		
Final Volume Purged:	3.3	Gallons	Used YSI Pro Plus		
Final Volume Purge Rate:	100	mL/min			
Well Purged Dry?:	No	(Yes/No)			

Field Parameters (Taken at time intervals with purge volumes ≥ 2 Flow Through Cell Volumes)

Time	Volume Purged (gal)	Flow Rate (mL/min)	Depth to Water (ft)	Temp (°C)	pH (s.u.)	Spec. Cond. (µS/cm)	Dissolved Oxygen (mg/L)	ORP* (mV)	Turbidity (NTU)	Comment	
12:24	0.0	110	132.50	18.0	12.2	3,562	1.7	-136	119.4	Start Purging	
12:29	0.1	110	133.15	18.2	12.2	3,581	0.4	-133	115		
12:34	0.3	110	133.80	18.7	12.2	3,565	0.4	-128	106		
12:39	0.4	100	135.75	18.5	12.2	3,556	0.4	-127	105		
12:45	0.7	150	136.10	17.6	12.2	3,510	6.9	-105	78.7		
12:50	0.9	150	136.98	18.5	12.2	3,460	6.5	-104	75.7		
12:55	1.0	100	137.64	18.9	12.2	3,435	6.3	-101	48.8		
13:00	1.1	100	138.10	19.2	12.2	3,425	6.2	-97	47.6		
13:05	1.3	100	138.70	19.4	12.2	3,399	6.0	-97	38.4		
13:10	1.4	100	139.40	19.5	12.2	3,381	5.7	-97	37.0		
13:15	1.5	100	139.85	19.7	12.2	3,375	5.6	-99	35.7		
13:20	1.7	100	140.43	19.8	12.2	3,357	5.4	-98	29.9		
13:25	1.8	100	141.05	20.0	12.1	3,346	5.2	-100	25.3		
13:31	1.9	100	141.65	19.9	12.1	3,330	5.1	-97	22.0		
13:36	2.1	100	142.40	19.9	12.2	3,319	5.0	-97	22.7		
13:42	2.2	100	142.85	20.1	12.1	3,310	4.8	-98	18.6		
13:47	2.4	100	143.15	20.0	12.1	3,303	4.5	-96	14.5		
13:52	2.5	100	143.64	20.4	12.1	3,283	4.6	-97	8.9		
13:57	2.6	100	144.16	20.1	12.1	3,295	4.6	-94	10.7		
14:03	2.8	100	144.78	19.9	12.2	3,281	4.4	-93	11.6		
14:08	2.9	100	145.27	19.9	12.2	3,276	4.3	-93	12.5		
14:13	3.1	100	145.77	19.8	12.2	3,273	4.3	-92	10.9		
14:18	3.2	100	146.41	20.0	12.1	3,273	4.1	-92	7.9		
14:24	3.3	100	147.04	20.1	12.1	3,271	4.0	-92	8.1	Told if below 10	
Final:	14:24	3.3	100	147.04	20.1	12.1	3,271	4.0	-92	8.1	End of Purging

Sample Method: Submersible Pump **Sample Start Time:** 14:27 **Sample End Time:** 15:43

Analytical Data

Method	Qty	Container	Preservative	Method	Qty	Container	Preservative
TSS	1	PET	Ice	TOC	3	Glass	Phosphoric Acid
TDS	1	PET	Ice	Nitrate-Nitrite	1	PET	H2SO4
Methane RSK-175	3	Glass	HCl	Radium 226 & 228	3	PET	HNO3
Cl, SO4	1	PET	Ice	Metals- Total	1	HDPE	HNO3
Alkalinity, Bicarbonate, Carbonate	1	PET	Ice	Metals - Dissolved	1	HDPE	HNO3
Sulfate	1	PET	Zinc Acetate/ NaOH	Hex Chromium 218.7	1	PET	(NH4)2 SO4 & NH4OH

Name	Signature	Date
(1) David Klemm	_____	9/28/2016
(2) Brant Alyea	_____	9/28/2016

Notes: To convert ORP to Eh, add 205 mv to ORP.