

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 28, 2016
Project Location:	Salisbury, NC	Purge Time:	95 Minutes
Project Number:	7126-16-032A	Sample Date:	September 28, 2016
Source Well:	GWA-6BR	Sample Time:	17:15
Locked?:	Yes	Weather:	partly cloudy/rain
Sampled By:	Jamie T. Honeycutt/Lindsey Romine	Air Temp:	75 ° F
Flow Through Cell Serial No.:	16B100463	Pump Serial No.:	24745
		Calibration Date:	September 28, 2016

Water Level & Well Data

Measuring Point:		Top of Casing	
Depth to Water:		42.12	ft-TOC
Total Well Depth:		101.00	ft-TOC
Height of Water Column:		58.88	feet
Screen Length:	5	feet	Stickup:
			3 ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	9.6	Gal
3 * Well Volume	28.83	Gal
5 * Well Volume	48.04	Gal

Well Purging Information

Purge Method:		Submersible Pump		Start Time:	15:35	End Time:	17:10
(If Used)	Bladder Pump Control Settings:	On (sec):		Off (sec):		Pressure:	
	Pump Intake Depth from Top of Casing:	99	ft-TOC				
	Water Column Above Pump Intake:	56.88	feet			Flow Through Cell Vol:	250 mL
	DTW-TOC at 25% Drawdown of WC Above Pump:	56.34	ft-TOC			Comments:	
	Final Volume Purged:	3.4	Gallons	Used YSI Pro Plus. Unable to maintain flow rate at 100 mL/min			
	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
15:35	0.0									Start Purging
15:40	0.3	250	45.56	17.8	7.6	1,183	7.5	-127	26.9	
15:45	0.5	100	46.33	19.3	7.6	1,183	7.0	-134	18.8	
15:50	0.6	100	46.60	19.6	7.6	1,182	6.8	-130	15.8	
15:55	0.7	100	47.43	19.7	7.5	1,187	6.7	-130	13.9	
16:05	1.0	100	49.13	19.2	7.6	1,169	3.3	-103	11.0	
16:10	1.1	50	49.37	20.4	7.6	1,179	2.1	-6	9.84	Storm standdown
16:55	2.8	150	53.22	18.8	7.6	1,172	4.2	-114	4.71	
17:00	3.0	150	54.25	18.3	7.6	1,182	3.8	-117	2.93	
17:05	3.2	150	55.74	17.6	7.6	1,170	3.7	-124	3.22	
17:10	3.4	100	56.95	18.1	7.6	1,168	3.7	-124	2.39	End Purging

Final: 17:10 3.4 100 56.95 18.1 7.6 1,168 3.7 -124 2.4 End of Purging

Sample Method: Submersible Pump **Sample Start Time:** 17:15 **Sample End Time:** 17:50

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) Jamie T Honeycutt	_____	9/28/2016
(2) Lindsey Romine	_____	9/28/2016

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