

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 29, 2016
Project Location:	Salisbury, NC	Purge Time:	165 Minutes
Project Number:	7126-16-032A	Sample Date:	September 29, 2016
Source Well:	AB-6BRU	Sample Time:	12:30
Locked?:	Yes	Weather:	Cloudy
Sampled By:	James Waters	Air Temp:	80 ° F
Flow Through Cell Serial No.:	15C101918	Pump Serial No.:	24710
		Calibration Date:	September 29, 2016

Water Level & Well Data

Measuring Point:	Top of Casing		
Depth to Water:	15.33	ft-TOC	
Total Well Depth:	145.80	ft-TOC	
Height of Water Column:	130.47	feet	
Screen Length:	10	feet	
Stickup:	2.8	ft-GRD	

Well Volume		
Well Diameter	2	inch
Water Volume	21.3	Gal
3 * Well Volume	63.87	Gal
5 * Well Volume	106.46	Gal

Well Purging Information

Purge Method:	Submersible Pump	Start Time:	9:45	End Time:	12:30
(If Used) Bladder Pump Control Settings:	On (sec):	Off (sec):		Pressure:	
Pump Intake Depth from Top of Casing:	140	ft-TOC			
Water Column Above Pump Intake:	124.67	feet	Flow Through Cell Vol:	500	mL
DTW-TOC at 25% Drawdown of WC Above Pump:	46.50	ft-TOC	Comments:		
Final Volume Purged:	6.9	Gallons			
Final Volume Purge Rate:	200	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
09:45	0.0									cont. from previous page
11:45	4.5	142								
11:50	4.8	200	19.85	17.8	6.7	375	0.4	-189	29.8	
11:55	5.0	200	19.84	18.2	6.7	369	0.3	-180	24.2	
12:00	5.3	200	19.80	18.2	6.7	365	0.3	-180	19.2	
12:05	5.6	200	19.79	18.4	6.7	361	0.3	-179	15.4	
12:10	5.8	200	19.77	18.4	6.6	359	0.3	-181	14.8	
12:15	6.1	200	19.73	18.4	6.6	356	0.3	-182	10.6	
12:20	6.4	200	19.73	18.3	6.6	353	0.2	-183	9.65	
12:25	6.6	200	19.73	18.3	6.6	352	0.2	-183	9.56	
12:30	6.9	200	19.73	18.3	6.6	349	0.2	-183	9.89	

Final: 12:30 6.9 200 End of Purging

Sample Method: Peristaltic Pump Sample Start Time: 12:30 Sample End Time: 13:30

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) James Waters		9/29/2016
(2)		

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