

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 28, 2016
Project Location:	Salisbury, NC	Purge Time:	65 Minutes
Project Number:	7126-16-032A	Sample Date:	September 28, 2016
Source Well:	GWA-14S	Sample Time:	11:30
Locked?:	Yes	Weather:	Mix of Sun/Clouds
Sampled By:	Darren Cox	Air Temp:	80 ° F
Flow Through Cell Serial No.:	15C100211	Pump Serial No.:	1155
		Calibration Date:	September 28, 2016

Water Level & Well Data

Measuring Point:				Top of Casing	
Depth to Water:				11.35	ft-TOC
Total Well Depth:				16.80	ft-TOC
Height of Water Column:				5.45	feet
Screen Length:	10	feet	Stickup:	2.8	ft-GRD

Well Volume		
Well Diameter	2	inch
Water Volume	0.9	Gal
3 * Well Volume	2.67	Gal
5 * Well Volume	4.45	Gal

Well Purging Information

Purge Method:		Bladder Pump		Start Time:	10:20	End Time:	11:25
(If Used)	Bladder Pump Control Settings:	On (sec):	6	Off (sec):	14	Pressure:	20 psi
Pump Intake Depth from Top of Casing:				15	ft-TOC		
Water Column Above Pump Intake:				3.45	feet	Flow Through Cell Vol: 200 mL	
DTW-TOC at 25% Drawdown of WC Above Pump:				12.21	ft-TOC	Comments:	
Final Volume Purged:				1.7	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	
10:20	0.0	100								Start Purging	
10:25	0.1	100	11.59	20.2	4.9	79	0.1	276	422		
10:40	0.5	100	11.59	20.3	4.9	78	0.5	290	38.3		
10:55	0.9	100	11.60	21.0	5.0	77	1.3	296	19.0		
11:05	1.2	100	11.61	21.3	5.0	77	1.0	296	14.1		
11:15	1.5	100	11.61	21.1	5.0	78	1.1	297	8.36		
11:20	1.6	100	11.61	21.4	5.0	77	1.1	298	6.90		
11:25	1.7	100	11.61	21.5	5.0	78	1.1	299	5.75		
Final:	11:25	1.7	100	11.61	21.5	5.0	78	1.1	299	5.8	End of Purging

Sample Method: Bladder Pump **Sample Start Time:** 11:30 **Sample End Time:** 12:40

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) Darren Cox	_____	9/28/2016
(2) Bryan Wence	_____	9/228/16

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