

Low Flow Groundwater Sampling Field Form



Project Name:	Buck Steam Station	Purge Date:	September 29, 2016
Project Location:	Salisbury, NC	Purge Time:	130 Minutes
Project Number:	7126-16-032A	Sample Date:	September 29, 2016
Source Well:	AB-4SL	Sample Time:	12:45
Locked?:	Yes	Weather:	Cloudy
Sampled By:	Jamie T. Honeycutt/Lindsey Romine	Air Temp:	67 ° F
Flow Through Cell Serial No.:	13G102143	Pump Serial No.:	24739
		Calibration Date:	September 29, 2016

Water Level & Well Data

Measuring Point:	Top of Casing	Well Volume	
Depth to Water:	6.47 ft-TOC	Well Diameter	2 inch
Total Well Depth:	50.75 ft-TOC	Water Volume	7.2 Gal
Height of Water Column:	44.28 feet	3 * Well Volume	21.68 Gal
Screen Length:	10 feet	5 * Well Volume	36.13 Gal
Stickup:	2.75 ft-GRD		

Well Purging Information

Purge Method:	Submersible Pump	Start Time:	10:10	End Time:	12:20
(If Used) Bladder Pump Control Settings:	On (sec): 45	Off (sec):		Pressure:	psi
Pump Intake Depth from Top of Casing:	45 ft-TOC				
Water Column Above Pump Intake:	38.53 feet	Flow Through Cell Vol:	250	mL	
DTW-TOC at 25% Drawdown of WC Above Pump:	16.10 ft-TOC	Comments:			
Final Volume Purged:	10.5 Gallons	Used YSI Pro Plus. Monsoon pump flow was fluctuating. See page 2.			
Final Volume Purge Rate:	350 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
10:10	0.0									Start Purging
10:20	0.8	300	7.23	18.9	8.7	519	4.2	-2	339	
10:25	1.2	300	7.13	19.0	8.7	511	3.9	-5	190	
10:30	1.6	300	7.05	19.3	8.8	515	3.7	-104	118	
10:35	1.9	250	7.05	19.1	8.8	521	3.4	-86	69.1	
10:40	2.3	300	7.06	19.1	8.8	521	3.1	-37	44.5	
10:45	2.7	300	7.05	19.1	8.9	521	2.8	-32	32.5	
10:50	3.1	300	7.01	19.0	8.9	521	2.6	-29	22.1	
10:55	3.6	350	7.21	18.9	8.9	522	2.4	-25	33.9	
11:00	3.9	250	7.10	18.8	8.9	516	2.1	-20	36.1	
11:05	4.2	250	7.10	18.8	8.9	522	1.9	-23	31.0	
11:10	4.7	350	7.18	18.8	8.9	520	1.7	-21	28.6	
11:15	5.2	350	7.24	18.6	8.9	523	0.3	-113	23.8	
11:25	6.1	350	7.25	18.6	8.9	518	0.2	-177	29.9	
11:30	6.4	250	7.14	18.5	8.9	520	0.1	-172	23.8	
11:35	6.8	300	7.15	18.8	9.0	527	0.1	-177	26.0	
11:40	7.2	300	7.20	18.6	8.9	524	0.2	-103	39.8	
11:45	7.7	350	7.28	18.9	8.9	523	0.4	-156	36.7	
11:50	8.1	350	7.24	18.6	9.0	516	0.1	-181	23.8	
11:55	8.6	350	7.25	18.5	9.0	520	0.1	-183	24.5	
12:00	9.0	350	7.26	18.5	9.0	511	4.8	-28	7.2	
12:05	9.3	200	7.23	18.7	9.0	512	4.4	-23	14.8	
12:10	9.6	250	7.20	19.0	9.0	500	1.0	-17	7.8	
12:15	10.0	300	7.24	18.7	9.0	498	2.4	-21	7.0	
12:20	10.5	350	7.23	18.7	9.0	503	2.1	-176	3.7	
12:20	10.5	350	7.23	18.7	9.0	503	2.1	-176	3.7	End of Purging

Sample Method: Submersible Pump

Sample Start Time: 12:45

Sample End Time: 13:05

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		9/29/2016
(2) Lindsey Romine		9/29/2016

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