

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM7	Sample Date:	12/20/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	WC
						Sampled By 3:	

Well Information:

Well Total Depth (TD)	318	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	298	Feet to	318	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	308	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1045	Weather:	Air Temp	32	(°F)	Conditions:	Sunny and breezy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	185.25	ft					
Water Column Height (TD-DTW):	0	ft					
Water volume = $\pi r^2 h$ (cf)	0.00	gallons					
3 Well Volumes:	0.00	gallons					

Well volume (in gal / LF) = πr^2 (cf) where: π = pi (approximately 3.14); r = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft ³);					
Well ID (in)	2	3	4	4.5	5
Water Volume (gal/LF)	0.163188147	0.367173331	0.652752589	0.826139995	1.01992592

Purging:

Purge Date	12/20/11	Purge Time Begin	1100	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	12/19/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	12/19/11
					Meter Type(3):		Meter Calibration Date:	

Field Stabilization Measurements:

Sample ID	Purge Date	Time (min.)	Purge Rate (ml/min)	Purge Rate (gal/min)	Temp (°C)	Conductivity (µmhos/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments	
PZM7-003-111220	12/20/11	11:10	350		9.26	1155	7.20	11.45	50.4	30.3	185.02		
		11:13	350		9.60	2290	1.77	11.94	-6.4	29.0	185.07		
		11:16	350		9.62	2846	1.45	12.05	-23.7	15.0	185.14		
		11:19	350		9.58	2929	1.18	12.09	-35.2	10.0	185.16		
		11:22	350		9.58	2915	1.12	12.10	-38.5	25.0	185.21		
		11:25	350		9.75	2839	0.97	12.11	-43.7	30.0	185.23		
		11:28	350		9.70	2773	0.94	12.12	-43.6	18.0	185.24		
		11:31	350		9.75	2774	0.89	12.13	-42.8	10.0	185.26		
		11:33	350		9.74	2831	0.79	12.14	-41.0	9.0	185.28		
		11:36	350		9.72	2843	0.73	12.14	-41.1	8.1	185.30		
Repeat Last Stabilization Meas.													

Sampling:

Sample Date	12/20/2011	Sample Collection Time (MT):	1145
Sample Pump Type:	Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	12/19/11
		Meter Type(2):	Hach Turbidity
		Meter 2 Calibration Date:	12/19/11
		Meter Type(3):	
		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample		QA/QC Type		COC#1:	RC08159	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

Analysis: Table 1- 4.14, Guide 8, & Radon 222

Comments:

Purged one gallon prior to stabilization in order to flush lines; developed a leak down well so pulled pump and discovered freeze-plug line wasn't connected; reconnected that line then reinstalled pump; collar on top of screen made installation difficult. high pH, conductivity and turbidity due to re-installing pump; could not stabilize cond & turb, so did not use as factor

Stabilization Parameters

Temp	= +/- 3% in celcius
pH	= +/- 0.1 unit
SC	= +/- 3% in µmhos/cm
ORP/Eh	= +/- 10 millivolts
DO	= +/- 10% in mg/L
Turbidity	= +/- 10% for values > 5

Range values for data entry

Conductivity Range (mS/cm)	Turbidity (NTU)	Dissolve Oxygen (DO) (mg/L)	Temperature Range (°C)	Ox/Reduc Potential (mV)
Min 0	Min 0	Min 0.01	Min -20	Min -400
Max 2000	Max 1000	Max 2000	Max 80	Max 700