

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM18	Sample Date:	11/9/10	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2010					Sampled By 2:	JS2
						Sampled By 3:	RD

Well Information:

Well Total Depth (TD)	270	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	250	Feet to	270	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	260	ft
		Tubing Type:	Non-dedicated Plastic	

Well Fluid Measurements:

Time (military):	1151	Weather:	Air Temp	28	(°F)	Conditions:	Windy, Light snow
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	161.75	ft					
Water Column Height (TD-DTW):	108.25	ft					
Water volume = $\pi r^2 h$ (cf)	89.43	gallons					
3 Well Volumes:	268.29	gallons					

Purging:

Purge Date	11/9/10	Purge Time Begin	1230	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	17
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10
Volume Purged Prior to Sampling:	1.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/9/10
					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 (mS/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments	
PZM18	11/09/10	1240	150		6.37	1.249	1.55	10.54	-148.0	12.3	162.39		
		1243	150		5.76	1.255	1.57	10.58	-152.8	12.5	162.47		
		1246	150		5.24	1.258	1.58	10.55	-157.8	12.5	162.52		
		1249	150		5.11	1.256	1.51	10.56	-162.1	12.6	162.55		
		1252	150		5.09	1.256	1.51	10.59	-166.2	11.5	162.59		
		1255	150		5.04	1.255	1.42	10.6	-170.5	11.2	162.63		
		1258	150		5.02	1.253	1.36	10.61	-170.5	10.5	162.64		
		1115										162.81	
		1325										163.00	
		1345										163.03	
		1355										163.05	
		1405										163.05	
		1415										163.05	
		1425										162.85	
Repeat Last Stabilization Meas.													

Sampling:

Sample Date	11/9/2010	Sample Collection Time (MT):	1300	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/19/10
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/9/10
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	006	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:	006-R	Lab 2	ALS
				COC#3:		Lab 3	

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

Comments:

Slow recharge rate

Stabilization Parameters	
Temp	= +/- 3% in celsius
pH	= +/- 0.1 unit
SC	= +/- 3% in $\mu\text{mhos/cm}$
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