The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM15	Sample Date:	8/30/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	WC
Sample Event	Q3-2010					Sampled By 3:	

Well Information:

Well Total Depth (TD)	443	ft			Well Measuring Point (MP) Location:		North Side-Marked		
Sampled From:	Monitoring Well		Well Inside Diameter:	4.5	inches	Pump Type Used:	Dedicated Low Flow Bladder		
Screened Interval:	420	Feet to	440	Feet	Pump Intake Depth:	430	ft	Tubing Type:	Dedicated Plastic

Well Fluid Measurements:

Time (military):	1240	Weather:	Air Temp	78	(°F)	Conditions:	Sunny, breezy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	226.57	ft					
Water Column Height (TD-DTW):	216.43	ft					
Water volume = pr^2h (cf)	178.80	gallons					
3 Well Volumes:	536.40	gallons					

Well volume (in gal / LF) = pr2 (cf) where: p = pi (approximately 3.14); r = radius of monitoring well (feet)
cf = conversion factor (7.48 gal/ft3);

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	8/30/11		Purge Time Begin	12:40		Low Flow Pump Controller Settings:		Charge Time	7	Exhaust Time	23
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	600	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		8/15/11	
Volume Purged Prior to Sampling:	3.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		8/11/11	
						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
PZM15-003-110830	08/30/11	1250	600		12.21	878	0.53	9.60	-218.2	1.7	227.77	
		1253	600		12.16	872	0.23	9.57	-221.7	3.4	227.79	
		1256	600		12.30	874	0.17	9.55	-209.6	3.1	227.79	Air bubbles
		1315	600		11.99	850	0.04	9.75	-183.6	4.6	227.79	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/30/2011	Sample Collection Time (MT):	1315				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/11/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08367	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:

Began getting air bubbles in the system yet parameters stabilized so sampled; system returned to normal with no bubbles midway through sampling; no drawdown with excellent recharge

Stablization 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 (µmhos/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