The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM18	Sample Date:	3/22/11	Sampling Company:	TREC	Sampled By 1:	RK
						Sampled By 2	JS2
Sample Event	Q2-2011					Sampled By 3:	None

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	Pump Type Used:	Dedicated Low Flow Bladder		
Screened Interval:	250	Feet to	270	Feet		Pump Intake Depth:	260	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	1145		Weather:	Air Temp	45	(°F)	Conditions:	Sunny, Windy
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		163.21	ft					
Water Column Height (TD-DTW):		106.79	ft					
Water volume = pr^2h (cf)		88.22	gallons					
3 Well Volumes:	264.67	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	3/22/11		Purge Time Begin	1158		Low Flow Pump Controller Settings:		Charge Time	4	Exhaust Time 26
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		3/21/11
Volume Purged Prior to Sampling:	1.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		3/21/11
						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
PZM18-002-11032	03/22/11	1158	150		11.72	933	8.48	9.92	190.6	5.6	163.95	
		1201	150		11.31	933	2.83	10.57	162.0	6.1	163.90	
		1204	150		11.28	934	1.70	10.66	139.1	3.1	164.04	
		1207	150		11.74	940	1.39	10.65	124.1	3.7	164.08	
		1210	150		11.08	927	1.24	10.65	111.6	4.3	164.11	
		1213	150		10.96	924	1.13	10.63	100.6	48.8	164.18	
		1216	150		10.92	919	0.96	10.64	86.7	37.4	164.24	
		1219	150		11	920	0.83	10.69	66.2	20.5	164.29	
		1222	150		10.91	921	0.72	10.78	36.2	7.4	164.34	
		1225	150		11.08	927	0.66	10.82	25.4	6.9	164.37	
		1228	150		11.21	929	0.62	10.85	18.9	3.2	164.40	
		1231	150		11.24	930	0.63	10.89	14.1	2.9	164.43	
		1234	150		10.84	925	0.66	10.92	12.1	2.4	164.46	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	3/22/2011	Sample Collection Time (MT):	1235				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	3/21/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	3/21/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08015	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:

Slow recharge rate-very high pH

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	4	Min	-20	Min	-400
Max	2000	Max	1000	Max	20	Max	80	Max	600