The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM1	Sample Date:	2/23/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	JS2
Sample Event	Q2-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	211	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:	191	Feet to	211	Feet		Pump Intake Depth:	201	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	1040		Weather:	Air Temp	25	(°F)	Conditions:	cold breezy
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		179.41	ft					
Water Column Height (TD-DTW):		31.59	ft					
Water volume = pr^2h (cf)		26.10	gallons					
3 Well Volumes:	78.29	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	2/23/11		Purge Time Begin	1055		Low Flow Pump Controller Settings:		Charge Time	6	Exhaust Time 23
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	400	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		1/26/11
Volume Purged Prior to Sampling:	4	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		2/23/11
						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
OM1-002-110223	02/23/11	1100	400		10.54	1281	4.52	7.22	13.10	3.40	179.85	
		1103	400		10.05	1312	0.36	7.36	-28.50	0.80	179.98	
		1106	350		9.87	1309	0.24	7.37	-62.10	0.26	179.96	
		1109	350		9.87	1309	0.22	7.37	-67	0.33	179.97	
		1112	350		9.81	1306	0.19	7.37	-68.9	0.31	179.98	
		1115	400		9.89	1306	0.19	7.37	-70.1	0.25	179.99	
		1118	400		9.84	1305	0.32	7.37	-71.8	0.49	179.95	
		1121	400		9.68	1302	0.23	7.37	-71.6	0.23	179.96	
		1124	400		9.75	1303	0.19	7.37	-73.3	0.4	179.94	
		1127	400		9.89	1306	0.17	7.37	-74.5	0.48	179.99	Low Battery
		1130	400		9.79	1302	0.17	7.38	-75.6	0.38	179.98	on Tubidity meter
		1133	400		9.92	1307	0.16	7.37	-76.1	0.43	179.99	
		1136	400		9.66	1299	0.18	7.38	-77.3	0.35	179.99	
		1139	400		9.81	1303	0.19	7.37	-77.8	0.26	179.99	
		1142	400		9.87	1302	0.19	7.37	-77.7	0.14	179.97	
		1145	400		9.7	1296	0.23	7.37	-78.5	0.18	179.98	
		.										
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/23/2011	Sample Collection Time (MT):	1148				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	2/23/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08007	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:

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