

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	OM4	Sample Date:	2/17/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2011					Sampled By 2:	JS2
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	174	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	154	Feet to	174	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	164	ft
		Tubing Type:	Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1410	Weather:	Air Temp	36	(°F)	Conditions:	Very Windy, Cold
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	94.68	ft					
Water Column Height (TD-DTW):	79.32	ft					
Water volume = $\pi r^2 h$ (cf)	65.53	gallons					
3 Well Volumes:	196.59	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ where: $\pi$ = pi (approximately 3.14); $r$ = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft <sup>3</sup> );					
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	2/17/11	Purge Time Begin	1420	Low Flow Pump Controller Settings:	Charge Time	5	Exhaust Time	25
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	1/26/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	2/15/11
					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	
OM4-001-110217	02/17/11	1425	400		9.28	723	2.92	7.20	92.8	5.52	94.83		
		1428	400		9.45	728	1.40	7.80	83.4	5.45	94.87		
		1431	450		8.79	711	1.22	7.31	79.2	4.01	94.83		
		1434	350		9.06	720	1.21	7.31	78.5	3.72	94.87		
		1437	350		9.21	722	1.16	7.31	77.8	2.63	94.85		
		1440	350		8.95	716	1.17	7.32	77.9	2.42	94.86		
		1443	350		8.98	718	1.12	7.32	78.2	2.51	94.83		
Repeat Last Stabilization Meas.													

### Sampling:

Sample Date	2/17/2011	Sample Collection Time (MT):	1445	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	2/15/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08009	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:

### 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 (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