

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	PZM6	Sample Date:	3/22/11	Sampling Company:	TREC	Sampled By 1:	RK
Sample Event	Q2-2011					Sampled By 2:	JS2
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	359	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	335	Feet to	355	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	345	ft
		Tubing Type:	Non-dedicated Plastic	

### Well Fluid Measurements:

Time (military):	155	Weather:	Air Temp	50	(°F)	Conditions:	Windy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	197.61	ft					
Water Column Height (TD-DTW):	161.39	ft					
Water volume = $\pi r^2 h$ (cf)	133.33	gallons					
3 Well Volumes:	399.99	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	3/22/11	Purge Time Begin	1400	Low Flow Pump Controller Settings:	Charge Time	5	Exhaust Time	25
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:		ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	3/21/11
Volume Purged Prior to Sampling:	1	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		
PZM6-002-110322	03/22/11	1407	150		10.45	906	10.53	7.11	-65.6	2.1	198.28			
		1410	150		9.77	927	3.92	7.55	-106.2	1.6	198.30			
		1413	150		9.99	930	2.83	7.64	-127.8	2.3	198.32			
		1416	150		9.85	922	2.88	7.72	-143.6	2.7	198.36			
		1419	150		10.14	917	2.73	7.74	-154.9	2.2	198.38			
		1422	150		10.27	917	2.5	7.76	-162.4	1.3	198.41			
		1425	150		10.32	917	2.39	7.77	-171.6	1	198.43			
		1428	150		10.09	910	2.33	7.8	-178.9	1.7	198.44			
Repeat Last Stabilization Meas.														

### Sampling:

Sample Date	3/22/2011	Sample Collection Time (MT):	1430	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	3/21/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			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 Duplicate Sample Time	None	COC#1:	RC08015	Lab 1	IML
Duplicate Name				COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments: Smells like methane

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