

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	SM7	Sample Date:	11/15/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	RM
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	75	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	55	Feet to	75	Feet
		Pump Type Used:	Hand bail	
		Pump Intake Depth:	n/a	ft
		Tubing Type:	n/a	

### Well Fluid Measurements:

Time (military):	1315	Weather:	Air Temp	22	(°F)	Conditions:	Overcast, breezy, cold
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	65.27	ft					
Water Column Height (TD-DTW):	9.73	ft					
Water volume = $\pi r^2 h$ (cf)	8.04	gallons					
3 Well Volumes:	24.12	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	n/a	Purge Time Begin	n/a	Low Flow Pump Controller Settings:	Charge Time	n/a	Exhaust Time	n/a
Purge Pump Type:	Hand bail	Pumping Rate:	n/a	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/14/11
Volume Purged Prior to Sampling:	0	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/5/11
	Direct sample; no purge;				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		
SM7-002-11115		1325			9.45	2945	1.56	7.51	-9.5	22.7	68.05	Final level		
Repeat Last Stabilization Meas.														

### Sampling:

Sample Date	11/15/2011	Sample Collection Time (MT):	1330	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/14/11
Sample Pump Type:				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/5/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type Duplicate Sample Time	None	COC#1:	RC08407	Lab 1	IML
Duplicate Name				COC#2:		Lab 2	
				COC#3:		Lab 3	

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

Comments: Hand bailed due to low water volume.

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