

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	UM3R	Sample Date:	11/29/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2011					Sampled By 2:	KM
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	480	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	460	Feet to	480	Feet
		Pump Type Used:	Electric Submersible	
		Pump Intake Depth:	470	ft
		Tubing Type:	N/A	

### Well Fluid Measurements:

Time (military):	9:00	Weather:	Air Temp	36	(°F)	Conditions:	Sunny, breezy
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	316.93	ft					
Water Column Height (TD-DTW):	0	ft					
Water volume = $\pi r^2 h$ (cf)	0.00	gallons					
3 Well Volumes:	0.00	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	11/29/11	Purge Time Begin	9:35	Low Flow Pump Controller Settings:	Charge Time	Exhaust Time
Purge Pump Type:	Electric Submersible	Pumping Rate:	2	gal/min	Meter Type(1):	YSI Multi
Volume Purged Prior to Sampling:	25	gallons			Meter Calibration Date:	10/14/11
					Meter Type(2):	Hach Turbidity
					Meter Calibration Date:	11/5/11
					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	
UM3-001-111129	11/29/11	9:40		2	10.88	1582	1.19	9.90	44.0	3.0	370	Final level	
		only parameters taken-direct sample											
Repeat Last Stabilization Meas.													

### Sampling:

Sample Date	11/29/2011	Sample Collection Time (MT):	9:45	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/14/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			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		COC#1:	RC08148	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:

Sampled with electric submersible pump

### 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 (mS/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