

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	UM1	Sample Date:	8/16/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q4-2011					Sampled By 2:	WC
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	450	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	430	Feet to	450	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	440	ft
		Tubing Type:	Non-Dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1300	Weather:	Air Temp	80	(°F)	Conditions:	Sunny, slight breeze
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	296.06	ft					
Water Column Height (TD-DTW):	153.94	ft					
Water volume = $\pi r^2 h$ (cf)	127.18	gallons					
3 Well Volumes:	381.53	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	8/16/11	Purge Time Begin	1:30 PM	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	190	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11
Volume Purged Prior to Sampling:	1	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/11/11
					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
UM1-004-110816	08/16/11	1:53	190		26.08	512	7.26	8.12	-14.2	23.5	296.05	
		1:56	190		23.52	511	5.58	8.22	-34.2	16.2	296.19	
		1:59	190		22.65	510	3.10	8.22	-36.8	14.2	296.33	
		2:02	125		22.65	512	2.82	8.24	-40.5	14.2	296.43	
		2:05	125		23.05	518	2.69	8.27	-43.9	14.3	296.52	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	8/16/2011	Sample Collection Time (MT):	2:08 PM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/11/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC 08354	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