

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	OM6	Sample Date:	8/10/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q3-2011					Sampled By 2:	RK
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	242	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	222	Feet to	242	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	232	ft
		Deep tube	931	Tubing Type: Dedicated Plastic

### Well Fluid Measurements:

Time (military):	1034	Weather:	Air Temp	70	(°F)	Conditions:	Sunny, South wind 2 mph
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	120.15	ft					
Water Column Height (TD-DTW):	121.85	ft					
Water volume = $\pi r^2 h$ (cf)	100.67	gallons					
3 Well Volumes:	302.00	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	8/10/11	Purge Time Begin	10:35 AM	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	15
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	1	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/8/11
					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
OM6-003-110810	08/10/11	10:44	150		13.68	1208	0.50	9.87	-166.1	1.5	120.74	
		10:47	150		13.42	1210	0.34	10.19	-175.3	1.0	120.81	
		10:50	150		13.44	1211	0.29	10.29	-176.3	1.2	120.91	
		10:53	150		13.71	1211	0.26	10.33	-176.5	1.8	120.99	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	8/10/2011	Sample Collection Time (MT):	10:54 AM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/8/11
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08338	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:

Strong sulfur odor

Depth to water following sampling 122.02 feet

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