

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	UM2	Sample Date:	9/19/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	WC
						Sampled By 3:	

### Well Information:

Well Total Depth (TD)	443	ft	Well Measuring Point (MP) Location:	North Side-Marked				
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches	Pump Type Used:			
Screened Interval:	423	Feet to	443	Feet	Pump Intake Depth:			
					433	ft	Tubing Type:	Non-Dedicated Plastic

### Well Fluid Measurements:

Time (military):	1315	Weather:	Air Temp	76	(°F)	Conditions:	Windy, partly cloudy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	315.5	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:  $\pi = 3.14$ ;  $r =$  radius of monitoring well (feet)  
 $cf =$  conversion factor (7.48 gal/ft3);

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	9/19/11	Purge Time Begin	1345	Low Flow Pump Controller Settings:	Charge Time	10	Exhaust Time	25
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	400	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11
Volume Purged Prior to Sampling:	2.5	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	
UM2-002-110919	09/19/11	1435	500		24.02	1016	3.90	11.19	-134.2	5.5	316.33		
		1438	400		20.36	1015	7.53	10.65	-85.9	9.0	316.55		
		1441	400		23.32	1026	8.63	10.78	-71.9	12.3	317.28		
		1444	400		21.63	949	7.86	10.83	-70.6	11.7	317.47		
		1447	400		21.53	966	7.07	10.78	-77.5	10.4	317.79		
		1450	400		21.47	992	6.78	10.77	-77.6	6.3	318.05		
		1453	350		21.47	994	6.76	10.74	-83.1	4.6	318.13		
		1456	350		21.73	1018	4.92	10.78	-94.1	3.2	318.23		
		1459	400		21.9	1020	3.76	10.87	-102.7	3.1	318.37	Changed N2 tanks	
		1502	400		21.75	1028	3.21	10.92	-110.1	2.9	318.65		

Repeat Last Stabilization Meas.

### Sampling:

Sample Date	9/19/2011	Sample Collection Time (MT):	1515	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 Duplicate		COC#1:	RC08336	Lab 1	IML
Duplicate Name		Sample Time		COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments: Started to get water then stopped. Pulled pump to check for slight air leak; put pump back in and changed CT & ET; no recharge; sampled with minimal drawdown

#### 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