

# The Reno Creek Project - Monitor Well Sampling Report

# AUC LLC

Location ID	PZM8	Sample Date:	12/20/10	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2010					Sampled By 2:	JS2
						Sampled By 3:	None

### Well Information:

Well Total Depth (TD)	340	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	305	Feet to	340	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	322	ft
		Tubing Type:	Non-dedicated Plastic	

### Well Fluid Measurements:

Time (military):	1320	Weather:	Air Temp	33	(°F)	Conditions:	Windy
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	287.55	ft					
Water Column Height (TD-DTW):	52.45	ft					
Water volume = $\pi r^2 h$ (cf)	43.33	gallons					
3 Well Volumes:	129.99	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/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	12/20/10	Purge Time Begin	1340	Low Flow Pump Controller Settings:	Charge Time	9	Exhaust Time	30
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10
Volume Purged Prior to Sampling:	3	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	12/20/10
					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
PZM1	12/20/10	1345	350		3.66	763	5.68	8.61	87.0	2.01	287.64	
		1348	350		4.20	1072	3.37	8.40	17.5	2.25	287.62	
		1351	350		4.42	1144	2.62	8.39	-23.0	1.64	287.65	
		1354	400		4.58	1166	3.89	8.39	-49.7	1.4	287.67	
		1357	400		4.75	1175	3.4	8.37	-70.8	1.54	287.68	
		1400	400		4.83	1178	3.26	8.36	-79.6	0.94	287.68	
		1403	400		4.95	1180	2.97	8.35	-92.9	1.24	287.63	
		1406	400		4.99	1179	2.84	8.34	-99.2	1.06	287.62	
		1409	400		5.01	1178	2.72	8.34	-106.4	0.87	287.66	
		1412	400		5.05	1179	2.53	8.32	-109	0.68	287.63	
		1415	400		5.11	1177	2.36	8.32	-112.6	1	287.66	
		1418	400		4.96	1175	2.32	8.32	-115.4	0.81	287.66	
		1421	400		4.85	1171	2.04	8.31	-123.1	0.95	287.66	
		1424	400		4.87	1171	1.98	8.31	-124	0.68	287.65	
Repeat Last Stabilization Meas.												

### Sampling:

Sample Date	12/20/2010	Sample Collection Time (MT):	1300	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/19/10
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	12/20/10
				Meter Type(3):		Meter 3 Calibration Date:	

### Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	8003	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:		Lab 2	
				COC#3:		Lab 3	

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

Comments: IML sent Radon 222 directly to ALS

Stabilization Parameters
Temp = +/- 3% in celsius
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