

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM10	Sample Date:	6/13/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	JB
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	320	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	300	Feet to	320	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	310	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	12:15	Weather:	Air Temp	74	(°F)	Conditions:	Slight Breeze, Sunny
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	288.91	ft					
Water Column Height (TD-DTW):	31.09	ft					
Water volume = $\pi r^2 h$ (cf)	25.68	gallons					
3 Well Volumes:	77.05	gallons					

Well volume (in gal / LF) = πr^2 (cf) where: π = pi (approximately 3.14); r = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft ³);					
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	6/13/11	Purge Time Begin	1300	Low Flow Pump Controller Settings:	Charge Time	8	Exhaust Time	24
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	300	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	6/6/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	6/6/11
					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		
PZM10-003-110613	06/13/11	1320	300		13.25	1913	3.52	9.02	-202.2	2.3	289.00			
		1323	300		13.42	1904	2.46	9.88	-213.8	2.4	289.03			
		1326	300		13.70	1913	5.72	10.20	-210.2	2.9	289.03			
		1329	300		13.7	1909	1.94	10.43	-191	2.9	289.03			
		1332	300		13.84	1907	3.87	10.55	-196.2	2.8	289.03			
		1335	300		13.78	1907	3.13	10.55	-192.1	2.4	289.04			
		1338	300		13.64	1908	3.61	10.61	-187.8	2.1	289.04			
		1341	300		13.73	1908	4.63	10.51	-187.6	2	289.04			

Sampling:

Sample Date	6/13/2011	Sample Collection Time (MT):	1345	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	6/6/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	6/6/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08292	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: DO all over-did not use as stabilization factor, pH suspect

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