

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM16	Sample Date:	6/1/11	Sampling Company:	TREC	Sampled By 1:	RK
Sample Event	Q2-2011					Sampled By 2:	TN
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	315	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	295	Feet to	315	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	305	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1040	Weather:	Air Temp	63	(°F)	Conditions:	Slight breeze, sunny
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	137.3	ft					
Water Column Height (TD-DTW):	177.7	ft					
Water volume = $\pi r^2 h$ (cf)	146.81	gallons					
3 Well Volumes:	440.42	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ 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	6/1/11	Purge Time Begin	1110	Low Flow Pump Controller Settings:	Charge Time	5	Exhaust Time	15
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	300	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	5/4/11
Volume Purged Prior to Sampling:	4	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	5/4/11
					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
PZM16-002-110601	06/01/11	1135	375		12.03	1341	0.93	8.67	-128.0	21.7	137.40	
		1138	300		11.71	1336	0.24	9.78	-121.7	15.6		
		1141	300		11.64	1335	0.18	10.25	-113.6	10.2		
		1144	300		11.63	1333	0.17	10.10	-117.2	6.0		
		1147	300		11.60	1332	0.18	10.07	-117.6	3.1		
		1150	300		11.59	1330	0.19	10.08	-117.6	2.1	137.25	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	6/1/2011	Sample Collection Time (MT):	1150	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	5/4/11
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	5/4/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type Duplicate		COC#1:	RC08278	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: pH suspect; water level meter not reading while pumping; checked level by turning pump off then restarting; no drawdown; continued with sampling and lost water quantity at the end; water level recharged; possible blown bladder.

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