

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM5	Sample Date:	6/7/11	Sampling Company:	TREC	Sampled By 1:	RK
Sample Event	Q3-2011					Sampled By 2:	TN
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	445	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	424	Feet to	444	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	434	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1100	Weather:	Air Temp	63	(°F)	Conditions:	Very windy, sunny
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	165.53	ft					
Water Column Height (TD-DTW):	279.47	ft					
Water volume = $\pi r^2 h$ (cf)	230.88	gallons					
3 Well Volumes:	692.64	gallons					

100 psi

Well volume (in gal / LF) = $\pi r^2 h$ where: π = 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	6/7/11	Purge Time Begin	1100	Low Flow Pump Controller Settings:	Charge Time	2.5	Exhaust Time	27.5
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	100	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	6/6/11
Volume Purged Prior to Sampling:	1	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
UM5-003-110607	06/07/11	1135	100		16.56	669	2.76	9.62	-184.5	2.3	166.43	
		1138	100		15.84	670	0.60	10.13	-197.3	2.1	166.50	
		1141	100		15.91	670	0.47	10.19	-197.0	2.3	166.58	
		1144	100		16.11	670	0.39	10.17	-196.3	2.4	166.62	
		1147	100		15.9	670	0.33	10.16	-196.4	2.8	166.71	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	6/7/2011	Sample Collection Time (MT):	1145	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 Duplicate Sample Time	None	COC#1:	RC08286	Lab 1	IML
Duplicate Name				COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments: No recharge; full of cattle hair; high pH

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