

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM6	Sample Date:	8/10/11	Sampling Company:	TREC	Sampled By 1:	RM
Sample Event	Q3-2011					Sampled By 2:	RK
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	435	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	415	Feet to	435	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	425	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1351	Weather:	Air Temp	81	(°F)	Conditions:	Sunny, NW winds at 2 mph
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	211.24	ft					
Water Column Height (TD-DTW):	223.76	ft					
Water volume = $\pi r^2 h$ (cf)	184.86	gallons					
3 Well Volumes:	554.57	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	8/10/11	Purge Time Begin	1351	Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	22
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	200	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	1.1	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/8/11
					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
UM6-003-110810	08/10/11	1:56	200		15.46	601	8.07	9.54	-53.1	2.7	211.36	
		1:59	200		15.72	596	7.33	9.33	-21.5	2.0	211.52	
		2:02	200		15.49	596	7.00	9.26	-17.5	2.1	211.77	
		2:05	150		16.1	597	3.33	10.52	-44.3	3.3	211.86	
		2:08	150		16.63	592	1.17	11	-73.1	2.0	211.99	
		2:11	125		16.81	594	0.76	11.24	-90.7	1.7	212.10	
		2:14	125		16.61	591	0.59	11.48	-105.2	1.7	212.21	
		2:17	125		16.44	590	0.56	11.61	-112.8	1.7	212.34	
		2:20	125		16.55	589	0.56	11.63	-114.6	1.7	212.40	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/10/2011	Sample Collection Time (MT):	2:24 PM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/8/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample		QA/QC Type		COC#1:	RC08334	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: Final depth to water following sampling 212.25 feet

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