

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM4	Sample Date:	5/17/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q2-2011					Sampled By 2:	RK
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	174	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	154	Feet to	174	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	164	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	10:00	Weather:	Air Temp	48	(°F)	Conditions:	Breezy, Overcast
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	94.15	ft					
Water Column Height (TD-DTW):	79.85	ft					
Water volume = $\pi r^2 h$ (cf)	65.97	gallons					
3 Well Volumes:	197.90	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	5/17/11	Purge Time Begin	10:30	Low Flow Pump Controller Settings:	Charge Time	5	Exhaust Time	25
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	5/4/11
Volume Purged Prior to Sampling:	3	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	
OM4-002-110517	05/17/11	10:35	350		10.28	1032	0.66	6.90	13.9	1.64	94.28		
		10:38	350		10.26	1027	0.45	7.10	13.4	1.85	94.31		
		10:41	350		10.25	1026	0.42	7.14	13.9	0.32	94.31		
		10:45	350		10.34	1021	0.86	7.17	15.2	0.66	94.31		
		10:48	350		10.36	1021	0.82	7.19	19.3	0.35	94.32		
		10:51	350		10.34	1021	0.77	7.2	19.3	0.34	94.32		
		10:54	350		10.36	1021	0.7	7.2	19.2	0.28	94.34		
Repeat Last Stabilization Meas.													

Sampling:

Sample Date	5/17/2011	Sample Collection Time (MT):	10:55
Sample Pump Type:	Dedicated Low Flow Bladder	Meter Type(1):	YSI Multi
		Meter 1 Calibration Date:	5/4/11
		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		COC#1:	RC08280	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:

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