The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM1	Sample Date:	6/16/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	JB
Sample Event	Q3-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	450	ft			Well Measuring Point (MP) Location:		North Side-Marked		
Sampled From:	Monitoring Well		Well Inside Diameter:	4.5	inches	Pump Type Used:	Non-Dedicated Low Flow Bladder		
Screened Interval:	430	Feet to	450	Feet	Pump Intake Depth:	440	ft	Tubing Type:	Non-Dedicated Plastic

Well Fluid Measurements:

Time (military):	830		Weather:	Air Temp	52	(°F)	Conditions:	Overcast, breezy	
Water level gauged using:		Electronic tape	ft						
Depth to Water (DTW) below MP:		295.75	ft						
Water Column Height (TD-DTW):		154.25	ft						
Water volume = pr^2h (cf)		127.43	gallons						
3 Well Volumes:	382.30	gallons							

Well volume (in gal / LF) = pr2 (cf) where: p = 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	6/16/11		Purge Time Begin	1000		Low Flow Pump Controller Settings:		Charge Time	4	Exhaust Time	26
Purge Pump Type:	Non-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:	1.5	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
UM1-003-110616	06/16/11	1110	100		17.38	606	2.58	9.29	-220.8	8.7	296.70	
		1113	100		17.26	610	1.47	9.48	-228.5	8.6	296.75	
		1116	100		17.41	613	1.27	9.52	-209.2	6.9	296.76	
		1119	100		17.4	616	1.19	9.57	-199.5	7	296.82	
		1122	100		17.22	619	1.16	9.59	-192.6	6.6	296.89	
		1125	100		17.45	617	1.1	9.52	-185.2	6.7	296.94	
		1128	100		17.64	615	1.07	9.44	-180.3		296.97	Changed N2 tank
		1145	100		17.31	608	1.18	9.28	-171.3	13	297.07	
		1148	100		17.24	609	1.17	9.24	-170.8	13	297.15	
		1151	100		17.29	611	1.18	9.21	-170.1	12.7	297.20	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	6/16/2011	Sample Collection Time (MT):	1200				
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	6/6/11
				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		COC#1:	RC08288	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:

Well casing greasy, very slow recharge, sampled with minimal drawdown, pH suspect

Stablization 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