The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM2	Sample Date:	9/8/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	WC
Sample Event	Q2-2011					Sampled By 3:	

Well Information:

Well Total Depth (TD)	221	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:	201	Feet to	221	Feet		Pump Intake Depth:	211	ft	Tubing Type: Non-Dedicated Plastic

Well Fluid Measurements:

Time (military):	1230	Weather:	Air Temp	81	(°F)	Conditions:	Very slight breeze and sunny
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	138.85	ft					
Water Column Height (TD-DTW):	0	ft					
Water volume = pr^2h (cf)	0.00	gallons					
3 Well Volumes:	0.00	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	9/8/11	Purge Time Begin	1245		Low Flow Pump Controller Settings:		Charge Time	7	Exhaust Time 23
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	380	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11	
Volume Purged Prior to Sampling:	1	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/11/11	
					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
OM2-002-110908	09/08/11	1302	200		27.24	459	3.38	10.38	-132.8	5.3	139.28	
		1305	200		26.15	458	1.58	10.62	-162.6	6.7	139.41	
		1308	200		25.80	456	1.44	10.61	-161.3	7.1	139.50	
		1311	200		25.67	455	1.29	10.56	-155.7	7.6	139.60	
		1314	200		23.98	456	1.21	10.54	-154.2	7.8	139.80	Changed N2 tanks
		1317	380		22.96	455	1.22	10.53	-153.3	8	139.90	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	9/8/2011	Sample Collection Time (MT):	1320				
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/11/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08335	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:

Initial difficulty with Solinst getting consistant water levels (most likely well-wall condensation); water level readings eventually stabilized prior to sampling.

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