The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM2	Sample Date:	12/20/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	WC
Sample Event	Q3-2011					Sampled By 3:	

Well Information:

Well Total Depth (TD)	443	ft			Well Measuring Point (MP) Location:		North Side-Marked		
Sampled From:	Monitoring Well		Well Inside Diameter:	4.5	inches	Pump Type Used:	Dedicated Low Flow Bladder		
Screened Interval:	423	Feet to	443	Feet		Pump Intake Depth:	433	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	1400	Weather:	Air Temp	45	(°F)	Conditions:	Sunny, breezy
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	314.03	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	12/20/11	Purge Time Begin	1405		Low Flow Pump Controller Settings:		Charge Time	8	Exhaust Time 22
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	300	ml/min		Meter Type(1):	YSI Multi	Meter Calibration Date:	12/19/11
Volume Purged Prior to Sampling:	2.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:	12/19/11
						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
UM2-003-111220	12/20/11	1418	300		9.84	1071	3.92	10.81	20.3	8.6	316.46	
		1421	300		9.90	1074	3.88	10.83	13.9	11.7	316.65	
		1424	300		9.88	1072	2.84	10.83	9.7	10.6	316.70	
		1427	300		9.87	1069	2.67	10.83	7.4	10.0	316.75	
		1430	300		9.84	1068	2.63	10.83	5.7	7.9	316.80	
		1433	300		9.89	1067	2.54	10.83	4.4	6.9	316.95	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	12/20/2011	Sample Collection Time (MT):	1445				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	12/19/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	12/19/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08161	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:

Purged more than one gallon to flush lines; began with a quick 2-foot drawdown most likely due to length of line; little to no recharge so sampled with minimal drawdown; high pH; could not stabilize turbidity so didn't use as a factor

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