The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM3	Sample Date:	12/15/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	WC
Sample Event	Q3-2011					Sampled By 3:	

Well Information:

Well Total Depth (TD)	170	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:	150	Feet to	170	Feet		Pump Intake Depth:	160	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	830	Weather:	Air Temp	22	(°F)	Conditions:	Sunny, breezy

Water level gauged using:	Electronic tape	ft
Depth to Water (DTW) below MP:	136.48	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	12/15/11	Purge Time Begin	850		Low Flow Pump Controller Settings:	Charge Time	4	Exhaust Time	26
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	250	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/14/11	
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/5/11	
					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
OM3-003-111215	12/15/11	9:05	250		7.34	642	5.13	12.01	15.5	3.3	137.60	
		9:08	250		7.26	645	1.56	11.91	-29.9	3.9	137.86	
		9:11	250		7.04	645	1.30	11.86	-45.6	3.3	138.00	
		9:14	250		6.96	645	1.02	11.85	-60.8	3.9	138.20	
		9:17	250		7.09	645	0.98	11.88	-67.6	4.0	138.40	
		9:20	250		7.03	644	0.92	11.89	-71.9	3.9	138.54	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	12/15/2011	Sample Collection Time (MT):	930				
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/14/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/5/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08154	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 line of one gallon prior to stabilizing parameters; very high pH; little to no recharge so sampled with minimal drawdown

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