The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM5	Sample Date:	8/9/11	Sampling Company:	TREC	Sampled By 1:	RM
						Sampled By 2	RK
Sample Event	Q4-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	84	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:	69	Feet to	84	Feet	Pump Intake Depth:	76	ft	Tubing Type:	Dedicated Plastic

Well Fluid Measurements:

Time (military):	1155		Weather:	Air Temp	82	(°F)	Conditions:	Cloudy, North wind at 2 mph	
Water level gauged using:		Electronic tape	ft						
Depth to Water (DTW) below MP:		37.96	ft						
Water Column Height (TD-DTW):		46.04	ft						
Water volume = pr^2h (cf)		38.04	gallons						
3 Well Volumes:	114.11	gallons							

psi 50

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	8/9/11		Purge Time Begin	11:52 AM		Low Flow Pump Controller Settings:		Charge Time	2	Exhaust Time	18
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	260	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		7/20/11	
Volume Purged Prior to Sampling:	1.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		8/8/11	
						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
OM5-004-110607	08/09/11	11:57	260		12.86	1760	0.98	10.70	-149.7	1.3	38.21	
		12:00	260		12.17	1761	0.27	10.88	-161.4	0.8	38.24	
		12:03	260		12.19	1756	0.16	10.89	-163.7	0.8	38.28	
		12:06	260		12.46	1756	0.15	10.89	-164.6	0.6	38.30	
		12:09	260		12.02	1757	0.35	10.94	-166.4	0.7	38.31	
		12:12	260		12.27	1754	0.37	10.94	-166.7	0.6	38.35	
		12:15	260		11.93	1757	0.36	10.94	-165.5	0.4	38.36	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/9/2011	Sample Collection Time (MT):	12:16 PM				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/8/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	RC08339	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:

A charge of 2 and exhaust of 18 yields 260 ml/min

Final depth to water following sampling 38.27 feet

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	4	Min	-20	Min	-400
Max	2000	Max	1000	Max	20	Max	80	Max	600