The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	PZM18	Sample Date:	11/9/10	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	JS2
Sample Event	Q1-2010					Sampled By 3:	RD

Well Information:

Well Total Depth (TD)	270	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:	250	Feet to	270	Feet		Pump Intake Depth:	260	ft	Tubing Type: Non-dedicated Plastic

Well Fluid Measurements:

Time (military):	1151		Weather:	Air Temp	28	(°F)	Conditions:	Windy, Light snow
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		161.75	ft					
Water Column Height (TD-DTW):		108.25	ft					
Water volume = pr^2h (cf)		89.43	gallons					
3 Well Volumes:	268.29	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	11/9/10		Purge Time Begin	1230		Low Flow Pump Controller Settings:		Charge Time	4	Exhaust Time 17
Purge Pump Type:	Non-Dedicated Low Flow Bladder		Pumping Rate:	150	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10	
Volume Purged Prior to Sampling:	1.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/9/10	
						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 (mS/cm)	DO (mg/L)	pH (su)	ORP (mV)	Turbidity (NTU)	Water Level (ft)	Comments
PZM18	11/09/10	1240	150		6.37	1.249	1.55	10.54	-148.0	12.3	162.39	
		1243	150		5.76	1.255	1.57	10.58	-152.8	12.5	162.47	
		1246	150		5.24	1.258	1.58	10.55	-157.8	12.5	162.52	
		1249	150		5.11	1.256	1.51	10.56	-162.1	12.6	162.55	
		1252	150		5.09	1.256	1.51	10.59	-166.2	11.5	162.59	
		1255	150		5.04	1.255	1.42	10.6	-170.5	11.2	162.63	
		1258	150		5.02	1.253	1.36	10.61	-170.5	10.5	162.64	
		1115									162.81	
		1325									163.00	
		1345									163.03	
		1355									163.05	
		1405									163.05	
		1415									163.05	
		1425									162.85	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	11/9/2010	Sample Collection Time (MT):	1300				
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/19/10
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/9/10
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	006	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:	006-R	Lab 2	ALS
				COC#3:		Lab 3	

Analysis: Table 1- 4.14, Guide 8, & Radon 222

Comments:

Slow recharge rate

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 (mS/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