The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM1	Sample Date:	2/22/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	JS2
Sample Event	Q2-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	450	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:	430	Feet to	450	Feet	Pump Intake Depth:	440	ft	Tubing Type:	Dedicated Plastic

Well Fluid Measurements:

Time (military):	1245		Weather:	Air Temp	37	(°F)	Conditions:	Windy	
Water level gauged using:		Electronic tape	ft						
Depth to Water (DTW) below MP:		296.24	ft						
Water Column Height (TD-DTW):		153.76	ft						
Water volume = pr^2h (cf)		127.03	gallons						
3 Well Volumes:	381.08	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	2/22/11		Purge Time Begin	1255		Low Flow Pump Controller Settings:		Charge Time	8	Exhaust Time	25
Purge Pump Type:	Dedicated Low Flow Bladder		Pumping Rate:	100	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:		1/26/11	
Volume Purged Prior to Sampling:	2	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		2/15/11	
						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
UM1-002-110222	02/22/11	1310	200		9.36	320	6.89	7.50	160.4	4.72	298.05	
		1313	200		8.79	311	3.19	7.96	150.9	5.72	298.15	
		1316	200		8.63	313	2.29	8.11	106.5	6.09	298.27	
		1319	150		8.02	321	1.57	8.21	14.8	5.76	298.40	
		1322	150		7.92	333	1.3	8.25	-18.6	6.9	298.52	
		1325	150		7.76	345	1.05	8.28	-45	9.2	298.60	
		1328	150		7.79	357	0.89	8.32	-65.8	11.6	298.70	
		1331	150		7.44	358	0.85	8.33	-73.8	11	298.78	
		1334	150		7.15	360	0.79	8.33	-80.4	7.78	298.89	
		1337	150		7.19	361	0.77	8.33	-82.3	6.57	298.94	
		1340	150		6.94	362	0.75	8.35	-87.9	4.77	299.00	
		1343	100		7	363	0.71	8.35	-93.1	4.33	299.04	
		1347	100		6.97	363	0.69	8.36	-96.7	4.6	299.15	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	2/22/2011	Sample Collection Time (MT):	1347				
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	1/26/11
				Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	2/15/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08006	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:

Well casing greasy

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