The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	SM5	Sample Date:	10/29/10	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)	50	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:	30	Feet to	50	Feet		Pump Intake Depth:	40	ft	Tubing Type: Non-dedicated Plastic

Well Fluid Measurements:

Time (military):	1050		Weather:	Air Temp	50	(°F)	Conditions:	Sunny, Breezy
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		36.45	ft					
Water Column Height (TD-DTW):		13.55	ft					
Water volume = pr^2h (cf)		11.19	gallons					
3 Well Volumes:	33.58	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	10/29/10		Purge Time Begin	11:36		Low Flow Pump Controller Settings:		Charge Time	18	Exhaust Time 25
Purge Pump Type:	Non-Dedicated Low Flow Bladder		Pumping Rate:	250	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10	
Volume Purged Prior to Sampling:	3	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:	10/29/10	
						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
SM5	10/29/10	1136	250		15.49	3.168	0.12	7.51		3.75	37.32	
		1140	300		15.65	3.18	0.17	7.34		2.31	37.51	
		1143	220		15.82	3.178	0.13	7.33		2.56	37.60	
		1146	230		15.85	3.184	0.11	7.33		2.9	37.71	
		1149	200		15.85	3.183	0.1	7.33		1.94	37.73	
		1152	200		15.81	3.182	0.1	7.33		2.12	37.75	
		1155	300		15.8	3.183	0.09	7.33		2.32	37.83	
		1158	200		15.7	3.185	0.09	7.34		2.6	37.88	
		1201	250		15.68	3.185	0.09	7.34		2.69	37.90	
		1204	200		15.97	3.186	0.09	7.35		2.8	37.91	
		1207	200		16.11	3.186	0.08	7.35		2.83	37.94	
		1210	200		16.19	3.186	0.08	7.36		2.81	37.95	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	10/29/2010	Sample Collection Time (MT):	12:00				
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:	10/29/10
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type	None	COC#1:	002	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:		Lab 2	
				COC#3:		Lab 3	

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

Comments:

OPR reading was very inconsistent so was not factored into stabilzation.

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