The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM6	Sample Date:	3/10/11	Sampling Company:	TREC	Sampled By 1:	TN
						Sampled By 2	JS2
Sample Event	Q1-2011					Sampled By 3:	None

Well Information:

Well Total Depth (TD)	242	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:	222	Feet to	242	Feet		Pump Intake Depth:	232	ft	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	1040		Weather:	Air Temp	43	(°F)	Conditions:	sunny, windy, muddy
Water level gauged using:		Electronic tape	ft					
Depth to Water (DTW) below MP:		120.15	ft					
Water Column Height (TD-DTW):		121.85	ft					
Water volume = pr^2h (cf)		100.67	gallons					
3 Well Volumes:	302.00	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	3/10/11		Purge Time Begin	1045		Low Flow Pump Controller Settings:		Charge Time	3	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:	1.5	gallons				Meter Type(2):	Hach Turbidity	Meter Calibration Date:		3/10/11
						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
OM6	03/10/11	1050	200		9.42	596	4.86	8.06	50.6	15.4	121.35	
		1053	200		9.38	625	0.69	7.90	-11.8	21.3	121.43	
		1056	200		9.28	724	0.42	7.81	-70.3		121.54	calibrated turbidity meter
		1059	200		9.05	777	0.26	7.75	-94		121.65	
		1102	100		9.02	780	0.23	7.74	-100.9		121.72	
		1105	100		9.22	782	0.18	7.74	-106.4	19.9	121.83	
		1108	100		9.11	786	0.21	7.75	-109.7	18.1	121.90	
		1111	100		8.51	777	0.24	7.75	-110.7	16.9	121.86	
		1114	100		8.12	764	0.2	7.75	-113.3	14.3	121.86	
		1117	100		8.06	760	0.22	7.75	-115.3	14.9	121.82	
		1120	100		8.01	757	0.22	7.75	-117.2	14.5	121.82	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	3/10/2011	Sample Collection Time (MT):	1120				
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:	3/10/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08256	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:

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