

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	UM1	Sample Date:	11/16/10	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q1-2010					Sampled By 2:	JS2
						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
Screened Interval:	430	Feet to	450	Feet
		Pump Type Used:	Non-Dedicated Low Flow Bladder	
		Pump Intake Depth:	440	ft
		Tubing Type:	Non-dedicated Plastic	

Well Fluid Measurements:

Time (military):	930	Weather:	Air Temp	35	(°F)	Conditions:	Breezy, Overcast
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	302.5	ft					
Water Column Height (TD-DTW):	147.5	ft					
Water volume = $\pi r^2 h$ (cf)	121.86	gallons					
3 Well Volumes:	365.57	gallons					

Well volume (in gal / LF) = $\pi r^2 (cf)$ where: π = pi (approximately 3.14); r = radius of monitoring well (feet) cf = conversion factor (7.48 gal/ft ³):					
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	11/16/10	Purge Time Begin	1040	Low Flow Pump Controller Settings:	Charge Time	8	Exhaust Time	25
Purge Pump Type:	Non-Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/19/10
Volume Purged Prior to Sampling:	1.75	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	11/16/10
					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	
UM1	11/16/10	1050	350		8.43	0.467	26.70	8.63	94.0	13.0	302.43		
		1053	350		8.78	0.462	18.70	8.64	62.9	11.1	302.67		
		1056	350		8.90	0.46	14.90	8.90	34.3	10.2	302.91		
		1059	350		8.9	0.461	17.1	8.91	19.5	8.28	303.04		
		1102	350		8.95	0.465	15.2	8.65	-2.4	6.24	303.26		
		1105	200		8.62	0.468	13.4	8.66	-9.6	5.7	303.40		
		1108	200		8.48	0.467	12.5	8.66	-24.1	5.38	303.48		
		1111	200		8.45	0.466	11.4	8.66	-35.4	5.81	303.62		
		1114	200		8.16	0.468	11.2	8.66	-32.7	5.03	303.70		
		1117	200		7.89	0.464	10.6	8.68	-41.4	5.46	303.80		
		1120	200		8.45	0.463	10.1	8.67	-48	5.18	303.90		
		1135										304.42	
		1145										304.93	
		1155										305.29	
		1205										305.75	
1215										306.09			
1225										306.45			
Repeat Last Stabilization Meas.													

Sampling:

Sample Date	11/16/2010	Sample Collection Time (MT):	1125	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/19/10
Sample Pump Type:	Non-Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	11/16/10
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	008	Lab 1	IML
Duplicate Name		Duplicate Sample Time		COC#2:	008-R	Lab 2	ALS
				COC#3:		Lab 3	

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

Comments:

Well casing greasy

Stabilization Parameters
Temp = +/- 3% in celsius
pH = +/- 0.1 unit
SC = +/- 3% in μ mhos/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