

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM1	Sample Date:	8/11/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q4-2011					Sampled By 2:	WC
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	211	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	191	Feet to	211	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	201	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	1415	Weather:	Air Temp	97	(°F)	Conditions:	Very hot, sunny, slight breeze
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	179.58	ft					
Water Column Height (TD-DTW):	211	ft					
Water volume = $\pi r^2 h$ (cf)	174.32	gallons					
3 Well Volumes:	522.95	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	8/11/11	Purge Time Begin	1430	Low Flow Pump Controller Settings:	Charge Time	6	Exhaust Time	24
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	250	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	7/20/11
Volume Purged Prior to Sampling:	2	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	8/11/11
					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		
OM1-004-110811	08/11/11	1445	250		14.47	1887	7.59	8.83	-13.5	0.8	179.79			
		1448	250		13.38	1892	3.21	8.67	-1.8	3.6	179.82			
		1451	250		13.68	1894	1.00	8.89	-42.2	1.4	179.87			
		1454	250		14.01	1896	0.49	9.11	-59.3	1.0	179.87			
		1457	250		14.19	1895	0.37	9.17	-61.1	0.7	179.88			
		1500	250		14.61	1894	0.32	9.18	-64.5	0.5	179.89			
		1503	250		14.51	1887	0.31	9.17	-65.0	0.7	179.89			
Repeat Last Stabilization Meas.														

Sampling:

Sample Date	8/11/2011	Sample Collection Time (MT):	1505	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	7/20/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	8/11/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	No	QA/QC Type		COC#1:	RC08348	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:

Stabilization 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