

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM6	Sample Date:	10/18/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q4-2011					Sampled By 2:	KD
						Sampled By 3:	

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
Screened Interval:	222	Feet to	242	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	232	ft
		Deep tube	931	Tubing Type: Dedicated Plastic

Well Fluid Measurements:

Time (military):	11:50	Weather:	Air Temp	55	(°F)	Conditions:	Windy, sunny
Water level gauged using:	Electronic tape						
Depth to Water (DTW) below MP:	119.7	ft					
Water Column Height (TD-DTW):	122.3	ft					
Water volume = $\pi r^2 h$ (cf)	101.04	gallons					
3 Well Volumes:	303.11	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	10/18/11	Purge Time Begin	11:55 AM	Low Flow Pump Controller Settings:	Charge Time	3	Exhaust Time	27
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	450	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	10/14/11
Volume Purged Prior to Sampling:	2.5	gallons			Meter Type(2):	Hach Turbidity	Meter Calibration Date:	10/5/11
					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
OM6-004-111018	10/18/11	12:00	450		10.65	1317	3.71	7.85	-192.6	1.7	121.15	
		12:03	450		10.71	1334	3.37	7.82	-188.4	2.4	121.25	
		12:06	450		10.62	1356	3.16	7.77	-175.6	2.8	121.40	
		12:09	450		10.57	1368	3.15	7.75	-164.5	1.9	121.60	
		12:12	450		10.56	1365	3.14	7.74	-158.2	1.9	121.75	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	10/18/2011	Sample Collection Time (MT):	12:15 PM	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	10/14/11
Sample Pump Type:	Dedicated Low Flow Bladder			Meter Type(2):	Hach Turbidity	Meter 2 Calibration Date:	10/5/11
				Meter Type(3):		Meter 3 Calibration Date:	

Analysis:

QA/QC Sample	Yes	QA/QC Type	DUP	COC#1:	RC08378	Lab 1	IML
Duplicate Name	WO-006-111011	Duplicate Sample Time	13:00	COC#2:		Lab 2	ALS
				COC#3:		Lab 3	

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

Comments: No recharge-sampled with minimal draw down.

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 4	Min -20	Min -400
Max 2000	Max 1000	Max 20	Max 80	Max 600