

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

Location ID	OM4	Sample Date:	8/30/11	Sampling Company:	TREC	Sampled By 1:	TN
Sample Event	Q3-2011					Sampled By 2:	WC
						Sampled By 3:	None

Well Information:

Well Total Depth (TD)	174	ft	Well Measuring Point (MP) Location:	North Side-Marked
Sampled From:	Monitoring Well	Well Inside Diameter:	4.5	inches
Screened Interval:	154	Feet to	174	Feet
		Pump Type Used:	Dedicated Low Flow Bladder	
		Pump Intake Depth:	164	ft
		Tubing Type:	Dedicated Plastic	

Well Fluid Measurements:

Time (military):	9:00	Weather:	Air Temp	65	(°F)	Conditions:	Bteezy, sunny
Water level gauged using:	Electronic tape	ft					
Depth to Water (DTW) below MP:	94.27	ft					
Water Column Height (TD-DTW):	79.73	ft					
Water volume = $\pi r^2 h$ (cf)	65.87	gallons					
3 Well Volumes:	197.60	gallons					

Well volume (in gal / LF) = πr^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	8/30/11	Purge Time Begin	9:15	Low Flow Pump Controller Settings:	Charge Time	7	Exhaust Time	23
Purge Pump Type:	Dedicated Low Flow Bladder	Pumping Rate:	350	ml/min	Meter Type(1):	YSI Multi	Meter Calibration Date:	8/15/11
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
OM4-003-110830	08/30/11	9:25	350		12.22	1055	1.91	7.29	-27.5	3.2	94.45	
		9:28	350		12.22	1049	0.49	7.63	-73.9	3.3	94.45	
		9:31	350		12.28	1047	0.50	7.81	-84.4	2.7	94.45	
		9:34	350		12.2	1048	0.62	7.98	-96.5	2.3	94.45	
		9:37	350		12.36	1047	0.62	8.08	-104.7	2.5	94.45	
		9:40	350		12.32	1046	0.66	8.1	-110.7	2.7	94.45	
Repeat Last Stabilization Meas.												

Sampling:

Sample Date	8/30/2011	Sample Collection Time (MT):	9:45	Meter Type(1):	YSI Multi	Meter 1 Calibration Date:	8/15/11
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:	RC08365	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