

The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

| | | | | | | | |
|--------------|---------|--------------|---------|-------------------|------|---------------|------|
| Location ID | UM6 | Sample Date: | 8/10/11 | Sampling Company: | TREC | Sampled By 1: | RM |
| Sample Event | Q3-2011 | | | | | Sampled By 2: | RK |
| | | | | | | Sampled By 3: | None |

Well Information:

| | | | | |
|-----------------------|-----------------|-----------------------|-------------------------------------|-------------------|
| Well Total Depth (TD) | 435 | ft | Well Measuring Point (MP) Location: | North Side-Marked |
| Sampled From: | Monitoring Well | Well Inside Diameter: | 4.5 | inches |
| Screened Interval: | 415 | Feet to | 435 | Feet |
| | | Pump Type Used: | Dedicated Low Flow Bladder | |
| | | Pump Intake Depth: | 425 | ft |
| | | Tubing Type: | Dedicated Plastic | |

Well Fluid Measurements:

| | | | | | | | |
|---------------------------------|-----------------|----------|----------|----|------|-------------|--------------------------|
| Time (military): | 1351 | Weather: | Air Temp | 81 | (°F) | Conditions: | Sunny, NW winds at 2 mph |
| Water level gauged using: | Electronic tape | ft | | | | | |
| Depth to Water (DTW) below MP: | 211.24 | ft | | | | | |
| Water Column Height (TD-DTW): | 223.76 | ft | | | | | |
| Water volume = $\pi r^2 h$ (cf) | 184.86 | gallons | | | | | |
| 3 Well Volumes: | 554.57 | 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 | 8/10/11 | Purge Time Begin | 1351 | Low Flow Pump Controller Settings: | Charge Time | 4 | Exhaust Time | 22 |
| Purge Pump Type: | Dedicated Low Flow Bladder | Pumping Rate: | 200 | ml/min | Meter Type(1): | YSI Multi | Meter Calibration Date: | 7/20/11 |
| Volume Purged Prior to Sampling: | 1.1 | gallons | | | Meter Type(2): | Hach Turbidity | Meter Calibration Date: | 8/8/11 |
| | | | | | 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 |
|---------------------------------|------------|-------------|---------------------|----------------------|-----------|-------------------------|-----------|---------|----------|-----------------|------------------|----------|
| UM6-003-110810 | 08/10/11 | 1:56 | 200 | | 15.46 | 601 | 8.07 | 9.54 | -53.1 | 2.7 | 211.36 | |
| | | 1:59 | 200 | | 15.72 | 596 | 7.33 | 9.33 | -21.5 | 2.0 | 211.52 | |
| | | 2:02 | 200 | | 15.49 | 596 | 7.00 | 9.26 | -17.5 | 2.1 | 211.77 | |
| | | 2:05 | 150 | | 16.1 | 597 | 3.33 | 10.52 | -44.3 | 3.3 | 211.86 | |
| | | 2:08 | 150 | | 16.63 | 592 | 1.17 | 11 | -73.1 | 2.0 | 211.99 | |
| | | 2:11 | 125 | | 16.81 | 594 | 0.76 | 11.24 | -90.7 | 1.7 | 212.10 | |
| | | 2:14 | 125 | | 16.61 | 591 | 0.59 | 11.48 | -105.2 | 1.7 | 212.21 | |
| | | 2:17 | 125 | | 16.44 | 590 | 0.56 | 11.61 | -112.8 | 1.7 | 212.34 | |
| | | 2:20 | 125 | | 16.55 | 589 | 0.56 | 11.63 | -114.6 | 1.7 | 212.40 | |
| | | | | | | | | | | | | |
| Repeat Last Stabilization Meas. | | | | | | | | | | | | |

Sampling:

| | | | |
|-------------------|----------------------------|------------------------------|----------------|
| Sample Date | 8/10/2011 | Sample Collection Time (MT): | 2:24 PM |
| Sample Pump Type: | Dedicated Low Flow Bladder | Meter Type(1): | YSI Multi |
| | | Meter 1 Calibration Date: | 7/20/11 |
| | | Meter Type(2): | Hach Turbidity |
| | | Meter 2 Calibration Date: | 8/8/11 |
| | | Meter Type(3): | |
| | | Meter 3 Calibration Date: | |

Analysis:

| | | | | | | | |
|----------------|--|-----------------------|--|--------|---------|-------|-----|
| QA/QC Sample | | QA/QC Type | | COC#1: | RC08334 | 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: Final depth to water following sampling 212.25 feet

| 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 |