# The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

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|---|---|---|---|---|---|---|---|
| Location ID | UM5 | Sample Date: | 3/23/11 | Sampling Company: | TREC | Sampled By 1: | RK |
| | | | | | | Sampled By 2 | JS2 |
| Sample Event | Q2-2011 | | | | | Sampled By 3: | None |

## Well Information:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Well Total Depth (TD) | 445 | ft | | | Well Measuring Point (MP) Location: | | North Side-Marked | | |
| Sampled From: | Monitoring Well | | Well Inside Diameter: | 4.5 | inches | Pump Type Used: | Dedicated Low Flow Bladder | | |
| Screened Interval: | 424 | Feet to | 444 | Feet | | Pump Intake Depth: | 434 | ft | Tubing Type: Dedicated Plastic |

## Well Fluid Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time (military): | 1255 | Weather: | Air Temp | 34 | (°F) | Conditions: | Windy |

| | | |
|---|---|---|
| Water level gauged using: | Electronic tape | ft |
| Depth to Water (DTW) below MP: | 165.91 | ft |
| Water Column Height (TD-DTW): | 279.09 | ft |
| Water volume = $pr^2h$ (cf) | 230.57 | gallons |
| 3 Well Volumes: | 691.70 | gallons |

Well volume (in gal / LF) = pr2 (cf) where: p = pi (approximately 3.14); r = radius of monitoring well (feet)
cf = conversion factor (7.48 gal/ft3);

| 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 | 3/23/11 | Purge Time Begin | 1300 | | Low Flow Pump Controller Settings: | | Charge Time | 3 | Exhaust Time 27 |
| Purge Pump Type: | Dedicated Low Flow Bladder | Pumping Rate: | 100 | ml/min | Meter Type(1): | YSI Multi | Meter Calibration Date: | 3/21/11 | |
| Volume Purged Prior to Sampling: | 1.5 | gallons | | | Meter Type(2): | Hach Turbidity | Meter Calibration Date: | 3/21/11 | |
| | | | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UM5-002-110323 | 03/23/11 | 1304 | 200 | | 8.02 | 286 | 7.66 | 7.26 | 61.4 | 6.1 | 166.92 | |
| | | 1307 | 300 | | 8.37 | 293 | 1.07 | 8.34 | -5.5 | 4.7 | 167.12 | |
| | | 1310 | 150 | | 8.44 | 293 | 0.04 | 8.47 | -25.8 | 4.1 | 167.21 | |
| | | 1313 | 150 | | 8.38 | 292 | 1.1 | 8.52 | -43.5 | 3.5 | 167.32 | |
| | | 1316 | 150 | | 8.37 | 291 | 0.85 | 8.55 | -60.1 | 3.9 | 167.44 | |
| | | 1319 | 150 | | 8.32 | 290 | 0.57 | 8.56 | -76.8 | 3.7 | 167.56 | |
| | | 1322 | 100 | | 8.42 | 291 | 0.46 | 8.57 | -91.8 | 3.7 | 167.63 | |
| | | 1325 | 100 | | 8.31 | 291 | 0.48 | 8.59 | -97.1 | 4.1 | 167.66 | |
| | | 1328 | 100 | | 7.92 | 289 | 0.47 | 8.58 | -104.2 | 4.2 | 167.71 | |
| | | 1331 | 100 | | 7.42 | 284 | 0.51 | 8.59 | -107.3 | 4 | 167.75 | |
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| Repeat Last Stabilization Meas. | | | | | | | | | | | | |

## Sampling:

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|---|---|---|---|---|---|---|---|
| Sample Date | 3/23/2011 | Sample Collection Time (MT): | 1331 | | | | |
| Sample Pump Type: | Dedicated Low Flow Bladder | | | Meter Type(1): | YSI Multi | Meter 1 Calibration Date: | 3/21/11 |
| | | | | Meter Type(2): | Hach Turbidity | Meter 2 Calibration Date: | 3/21/11 |
| | | | | Meter Type(3): | | Meter 3 Calibration Date: | |

## Analysis:

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|---|---|---|---|---|---|---|---|
| QA/QC Sample | No | QA/QC Type | None | COC#1: | RC08016 | Lab 1 | IML |
| Duplicate Name | | Duplicate Sample Time | | COC#2: | | Lab 2 | ALS |
| | | | | COC#3: | | Lab 3 | |

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

Comments:

| Stablization 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 |