# The Reno Creek Project - Monitor Well Sampling Report

AUC LLC

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|---|---|---|---|---|---|---|---|
| Location ID | PZM17 | Sample Date: | 6/1/11 | Sampling Company: | TREC | Sampled By 1: | RK |
| | | | | | | Sampled By 2 | TN |
| Sample Event | Q2-2011 | | | | | Sampled By 3: | None |

## Well Information:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Well Total Depth (TD) | 316 | 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: | 296 | Feet to | 316 | Feet | | Pump Intake Depth: | 306 | ft | Tubing Type: Dedicated Plastic |

## Well Fluid Measurements:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time (military): | 1310 | Weather: | Air Temp | 65 | (°F) | Conditions: | Breezy, sunny |

| | | |
|---|---|---|
| Water level gauged using: | Electronic tape | ft |
| Depth to Water (DTW) below MP: | 127.35 | ft |
| Water Column Height (TD-DTW): | 188.65 | ft |
| Water volume = $pr^2h$ (cf) | 155.85 | gallons |
| 3 Well Volumes: | 467.55 | 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 | 6/1/11 | Purge Time Begin | 1335 | | Low Flow Pump Controller Settings: | | Charge Time | 3 | Exhaust Time 17.5 |
| Purge Pump Type: | Dedicated Low Flow Bladder | Pumping Rate: | 300 | ml/min | Meter Type(1): | YSI Multi | Meter Calibration Date: | 5/4/11 | |
| Volume Purged Prior to Sampling: | 3 | gallons | | | Meter Type(2): | Hach Turbidity | Meter Calibration Date: | 5/4/11 | |
| | | | | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PZM17-002-110601 | 06/01/11 | 1346 | 300 | | 12.69 | 990 | 0.41 | 10.24 | -143.20 | 6.6 | 128.07 | |
| | | 1349 | 300 | | 12.93 | 991 | 0.27 | 10.39 | -145.80 | 15.3 | 128.08 | |
| | | 1352 | 300 | | 13.07 | 989 | 0.24 | 10.37 | -142.60 | 15.9 | 128.08 | |
| | | 1355 | 300 | | 13.04 | 988 | 0.21 | 10.34 | -137.7 | 8.5 | 128.06 | |
| | | 1358 | 300 | | 13.07 | 987 | 0.21 | 10.30 | -134.4 | 4.1 | 128.06 | |
| | | 1401 | 300 | | 13.08 | 987 | 0.21 | 10.28 | -131.6 | 1.7 | 128.05 | |
| | | 1404 | 300 | | 13.22 | 989 | 0.19 | 10.24 | -131.7 | 2 | 128.05 | |
| | | 1407 | 300 | | 13.32 | 988 | 0.22 | 10.23 | -130.7 | 1.6 | 128.05 | |
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| Repeat Last Stabilization Meas. | | | | | | | | | | | | |

## Sampling:

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|---|---|---|---|---|---|---|---|
| Sample Date | 6/1/2011 | Sample Collection Time (MT): | 1415 | | | | |
| Sample Pump Type: | Dedicated Low Flow Bladder | | | Meter Type(1): | YSI Multi | Meter 1 Calibration Date: | 5/4/11 |
| | | | | Meter Type(2): | Hach Turbidity | Meter 2 Calibration Date: | 5/4/11 |
| | | | | Meter Type(3): | | Meter 3 Calibration Date: | |

## Analysis:

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|---|---|---|---|---|---|---|---|
| QA/QC Sample | No | QA/QC Type | | COC#1: | RC08279 | 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:

pH suspect

| 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 | 0.01 | Min | -20 | Min | -400 |
| Max | 2000 | Max | 1000 | Max | 2000 | Max | 80 | Max | 700 |