

May 11, 2004

**CERTIFICATE OF ANALYSIS**

Mr. Peter Butt  
Karst Environmental Services, Inc.  
P. O. Box 1368  
High Springs, FL 32643

RE: Down Stream Madison Blue Spring Trace  
Analysis results for charcoal samplers shipped on May 5, 2004.  
Ozark Underground Laboratory (OUL) numbers N2624 through N2634.

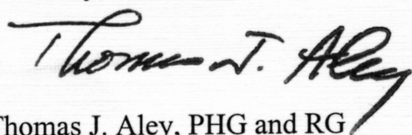
Dear Peter:

We have completed analysis of the charcoal samplers that were received at the OUL on May 6, 2004. We have indicated the OUL number for each of these samplers on the enclosed table.

The fluorescein dye concentration is based upon a standard routinely used at the OUL. The fluorescein is a mixture of 75% dye and 25% diluent; the concentration is based upon the as-sold weight of the dye.

A summary of the results is presented in Table 1. Additional sampling information is available on the enclosed analysis graphs.

Sincerely,



Thomas J. Aley, PHG and RG

Enclosures: 1) Table 1 - Analysis results for charcoal samplers  
2) Sample Collection Data Sheet  
3) Sample analysis graphs

f:\docs\coa\kes29.doc

May 11, 2004

**CERTIFICATE OF ANALYSIS**

Mr. Peter Butt  
Karst Environmental Services, Inc.  
P. O. Box 1368  
High Springs, FL 32643

RE: Down Stream Madison Blue Spring Trace  
Analysis results for charcoal samplers shipped on May 5, 2004.  
Ozark Underground Laboratory (OUL) numbers N2624 through N2634.

Dear Peter:

We have completed analysis of the charcoal samplers that were received at the OUL on May 6, 2004. We have indicated the OUL number for each of these samplers on the enclosed table.

The fluorescein dye concentration is based upon a standard routinely used at the OUL. The fluorescein is a mixture of 75% dye and 25% diluent; the concentration is based upon the as-sold weight of the dye.

A summary of the results is presented in Table 1. Additional sampling information is available on the enclosed analysis graphs.

Sincerely,

Thomas J. Aley, PHG and RG

Enclosures: 1) Table 1 - Analysis results for charcoal samplers  
2) Sample Collection Data Sheet  
3) Sample analysis graphs

# Ozark Underground Laboratory, Inc. for Karst Environmental Services, Inc.

**Project name:** Down Stream Madison Blue Spring Trace  
**Samples collected by:** Pete Butt  
**Date samples shipped:** May 5, 2004  
**Date samples rec'd at OUL:** May 6, 2004  
**Date samples analyzed by OUL:** May 10, 2004

| <b>Table 1. Results for charcoal samplers analyzed for the presence of fluorescein dye.</b> Peak wavelengths are reported in nanometers (nm); dye concentrations are reported in parts per billion (ppb). |        |                                     |                          |                             |                     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------|--------------------------|-----------------------------|---------------------|-------|
| OUL #                                                                                                                                                                                                     | Stn. # | Station Name                        | Date/Time Placed<br>2004 | Date/Time Collected<br>2004 | Fluorescein Results |       |
|                                                                                                                                                                                                           |        |                                     |                          |                             | Peak                | Conc. |
| N2624                                                                                                                                                                                                     | 1      | Body Tube Spring                    | 4/25 1405                | 4/30 1510                   | ND                  |       |
| N2625                                                                                                                                                                                                     | 2A     | Bluff Spring A                      | 4/25 1415                | 4/30 1525                   | ND                  |       |
| N2626                                                                                                                                                                                                     | 2B     | Bluff Spring B                      | 4/25 1420                | 4/30 1530                   | ND                  |       |
| N2627                                                                                                                                                                                                     | 2C     | Bluff Spring C                      | 4/25 1425                | 4/30 1535                   | ND                  |       |
| N2628                                                                                                                                                                                                     | 2D     | Bluff Spring D                      | 4/25 1430                | 4/30 1545                   | ND                  |       |
| N2629                                                                                                                                                                                                     | 3      | Pot Spring (Deep)                   | 4/25 1450                | 4/30 1435                   | ND                  |       |
| N2630                                                                                                                                                                                                     | 4      | Tanner Spring                       | 4/25 1535                | 4/30 1730                   | ND                  |       |
| N2631                                                                                                                                                                                                     | 5      | Snake Spring                        | 4/25 1625                | 4/30 1740                   | ND                  |       |
| N2632                                                                                                                                                                                                     | 6      | Baseline Spring                     | 4/25 1655                | 4/30 1755                   | ND                  |       |
| N2633                                                                                                                                                                                                     | 19     | Madison Blue Head Spring            | 4/25 1338                | 4/30 1405                   | ND                  |       |
| N2634                                                                                                                                                                                                     | 20     | Withlacoochee River upstream of MBS | 4/25 1340                | 4/30 1411                   | ND                  |       |

## **FOOTNOTES:**

ND = None Detected

# OZARK UNDERGROUND LABORATORY, INC.

1572 Alley Lane Protom, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net

## SAMPLE COLLECTION DATA SHEET FOR FLUORESCENCE ANALYSIS

Project: Downstream Madison Blue Spring Trace Week No: BG-1 Samples Collected By: Pete B. H.

Samples Shipped By: Peter Butt, KES Samples Received By: Maite Ortaed - OUL

Date Samples Shipped: 5/5/04 Date Samples Received: 5/6/04 Time Samples Received: 13:35 Return Cooler? Yes No

Bill to: SRWMD Send Results to: KES

Analyze for: Fluorescein X Eosine    Rhodamine WT    Other    Ship cooler to:   

| OUL use only |            | STATION NAME               |                                     | PLACED    |       | COLLECTED |       | OUL use only |
|--------------|------------|----------------------------|-------------------------------------|-----------|-------|-----------|-------|--------------|
| # CHAR REC'D | LAB NUMBER | STATION NUMBER 1-4 Numbers |                                     | 2004 DATE | TIME  | 2004 DATE | TIME  | WATER REC'D  |
| 1            | 1A6624     | 1                          | Charcoal Samples                    | 4-25      | 14:05 | 4-30      | 15:10 | 0            |
| 1            | 1A6625     | 2A                         | Body Tube Spring                    | 4-25      | 14:15 | 4-30      | 15:25 | 0            |
| 1            | 1A6626     | 2B                         | Bluff Spring A                      | 4-25      | 14:20 | 4-30      | 15:30 | 0            |
| 1            | 1A6627     | 2C                         | " " B                               | 4-25      | 14:25 | 4-30      | 15:35 | 0            |
| 1            | 1A6628     | 2D                         | " " C                               | 4-25      | 14:30 | 4-30      | 15:45 | 0            |
| 1            | 1A6629     | 3                          | " " D                               | 4-25      | 14:50 | 4-30      | 14:35 | 0            |
| 1            | 1A6630     | 4                          | Pot Spring (deep)                   | 4-25      | 15:35 | 4-30      | 17:30 | 0            |
| 1            | 1A6631     | 5                          | Tanner Spring                       | 4-25      | 16:25 | 4-30      | 17:40 | 0            |
| 1            | 1A6632     | 6                          | Snake Spring                        | 4-25      | 16:55 | 4-30      | 17:55 | 0            |
| 1            | 1A6633     | 19                         | Baseline Spring                     | 4-25      | 13:38 | 4-30      | 14:05 | 0            |
| 1            | 1A6634     | 20                         | Madison Blue Head Spring            | 4-25      | 13:40 | 4-30      | 14:11 | 0            |
|              |            |                            | Withlacoochee River upstream of MBS |           |       |           |       |              |
|              |            |                            |                                     |           |       |           |       |              |
|              |            |                            |                                     |           |       |           |       |              |
|              |            |                            |                                     |           |       |           |       |              |
|              |            |                            |                                     |           |       |           |       |              |
|              |            |                            |                                     |           |       |           |       |              |

COMMENTS: BAG BG-1