

**MEMORANDUM**

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**TO: Mal Toy; Tom Johnson; Ed Bianchi; Martin Ostendorf; Marie Davis**

**FROM: Paul Bratovich and Ben Ransom**

**DATE: October 18, 2004**

**SUBJECT: October 13, 2004 French Meadows and Hell Hole Profile Data  
Task Order 2003-02**

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Water temperature, dissolved oxygen and specific conductance vertical profiles were measured at French Meadows and Hell Hole reservoirs on October 13, 2004. The procedures followed were the same as those for the three previous reservoir profiling efforts. The attached data sheets provide the water temperature, dissolved oxygen and specific conductance information collected at five sample locations. Profile data were not collected at HH3 (the most upstream site in Hell Hole Reservoir) due in part to the amount of time it took to download the water temperature data from the two loggers monitoring water temperature in the tributaries upstream of Hell Hole Reservoir (Five Lakes Creek and Rubicon River). However, brief review of the water temperature profiles collected in Hell Hole Reservoir on September 7, September 20 and September 30 indicate that the profiles at HH1, HH2 and HH3 are similar.

Because French Meadows Reservoir is still strongly stratified and Hell Hole Reservoir is still somewhat stratified, SWRI plans to collect reservoir profile data at French Meadows and Hell Hole reservoirs on October 28, 2004. Please contact Ben Ransom (916-563-6383) to provide comments on the profiling program, if any. Thank you.

Surface Water Resources, Inc.

Paul Bratovich and Ben Ransom

[Attachments]

## Water Quality Sampling Data Form – SWRI Project 994

Date: 10/13/04

Observers: S. Pagliughi and B. Ransom

System Name: French Meadows

Sample Site Name: FM 1

Sample Site UTM Location: **Easting** (6 numerals) \_\_\_\_\_

(Datum Used: WGS 84) **Northing** (7 numerals) \_\_\_\_\_

Weather: Clear, sunny windy

Start Time: 1646

Finish Time: 1717

Start Air Temp (°C): 19

Finish Air Temp (°C): 19.5

Comments: Stiff breeze making boat positioning difficult

Max Depth: 150 ft

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| Surface         | 14.79                  | 0.027                        | 7.89                    |
| 1               | 14.79                  | 0.027                        | 7.84                    |
| 2               | 14.79                  | 0.027                        | 7.73                    |
| 3               | 14.68                  | 0.027                        | 7.77                    |
| 4               | 14.67                  | 0.027                        | 7.68                    |
| 5               | 14.64                  | 0.027                        | 7.69                    |
| 6               | 14.64                  | 0.027                        | 7.65                    |
| 7               | 14.63                  | 0.026                        | 7.65                    |
| 8               | 14.62                  | 0.027                        | 7.69                    |
| 9               | 14.62                  | 0.027                        | 7.63                    |
| 10              | 14.62                  | 0.026                        | 7.64                    |
| 11              | 14.62                  | 0.026                        | 7.62                    |
| 12              | 14.62                  | 0.026                        | 7.59                    |
| 13              | 14.62                  | 0.026                        | 7.59                    |
| 14              | 14.61                  | 0.026                        | 7.61                    |
| 15              | 14.61                  | 0.026                        | 7.59                    |
| 16              | 14.62                  | 0.026                        | 7.48                    |
| 17              | 14.62                  | 0.026                        | 7.50                    |

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| 18              | 14.61                  | 0.025                        | 7.51                    |
| 19              | 14.61                  | 0.026                        | 7.58                    |
| 20              | 14.60                  | 0.026                        | 7.56                    |
| 21              | 14.53                  | 0.026                        | 7.50                    |
| 22              | 14.53                  | 0.026                        | 7.51                    |
| 23              | 14.24                  | 0.025                        | 7.38                    |
| 24              | 9.28                   | 0.025                        | 6.04                    |
| 25              | 8.83                   | 0.025                        | 5.85                    |
| 26              | 8.60                   | 0.025                        | 5.73                    |
| 27              | 8.37                   | 0.025                        | 5.43                    |
| 28              | 8.25                   | 0.026                        | 5.26                    |
| 29              |                        |                              |                         |
| 30              | 8.16                   | 0.026                        | 5.07                    |
| 31              |                        |                              |                         |
| 32              | 8.12                   | 0.026                        | 4.76                    |
| 33              |                        |                              |                         |
| 34              | 8.08                   | 0.026                        | 4.65                    |
| 35              |                        |                              |                         |
| 36              | 8.06                   | 0.027                        | 4.66                    |
| 37              |                        |                              |                         |
| 38              | 8.05                   | 0.027                        | 4.46                    |
| 39              |                        |                              |                         |
| 40              | 8.02                   | 0.026                        | 4.26                    |
| 41              |                        |                              |                         |
| 42              |                        |                              |                         |
| 43              |                        |                              |                         |
| 44              |                        |                              |                         |
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| 57              |                        |                              |                         |
| 58              |                        |                              |                         |

## Water Quality Sampling Data Form – SWRI Project 994

Date: 10/13/04

Observers: S. Pagliughi and B. Ransom

System Name: French Meadows

Sample Site Name: FM 2

Sample Site UTM Location: **Easting** (6 numerals) \_\_\_\_\_

(Datum Used: WGS)

**Northing** (7 numerals) \_\_\_\_\_

Weather: Sunny, clear, strong wind

Start Time: 1729

Finish Time: 1744

Start Air Temp (°C): 18.5

Finish Air Temp (°C): 18.3

Comments:

Max Depth: 108 ft

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| Surface         | 14.41                  | 0.027                        | 7.46                    |
| 1               | 14.41                  | 0.027                        | 7.47                    |
| 2               | 14.41                  | 0.027                        | 7.47                    |
| 3               | 14.43                  | 0.027                        | 7.36                    |
| 4               | 14.42                  | 0.027                        | 7.37                    |
| 5               | 14.42                  | 0.027                        | 7.37                    |
| 6               | 14.42                  | 0.027                        | 7.32                    |
| 7               | 14.42                  | 0.026                        | 7.36                    |
| 8               | 14.42                  | 0.027                        | 7.35                    |
| 9               | 14.41                  | 0.027                        | 7.34                    |
| 10              | 14.39                  | 0.027                        | 7.30                    |
| 11              | 14.34                  | 0.026                        | 7.23                    |
| 12              | 14.32                  | 0.026                        | 7.25                    |
| 13              | 14.32                  | 0.026                        | 7.25                    |
| 14              | 14.30                  | 0.026                        | 7.23                    |
| 15              | 14.27                  | 0.026                        | 7.26                    |
| 16              | 14.26                  | 0.026                        | 7.24                    |
| 17              | 14.23                  | 0.026                        | 7.24                    |

| <b>Water Depth (m)</b> | <b>Water Temperature (°C)</b> | <b>Specific Conductance (mS/cm)</b> | <b>Dissolved Oxygen (mg/l)</b> |
|------------------------|-------------------------------|-------------------------------------|--------------------------------|
| 18                     | 14.20                         | 0.026                               | 7.22                           |
| 19                     | 14.19                         | 0.025                               | 7.20                           |
| 20                     | 14.17                         | 0.025                               | 7.12                           |
| 21                     | 14.08                         | 0.025                               | 7.18                           |
| 22                     | 13.98                         | 0.025                               | 7.20                           |
| 23                     | 13.63                         | 0.025                               | 7.06                           |
| 24                     | 11.66                         | 0.025                               | 6.17                           |
| 25                     | 9.35                          | 0.026                               | 5.40                           |
| 26                     | 8.81                          | 0.026                               | 5.25                           |
| 27                     | 8.70                          | 0.026                               | 5.30                           |
| 28                     | 8.58                          | 0.026                               | 5.40                           |
| 29                     | 8.41                          | 0.026                               | 5.21                           |
| 30                     | 8.39                          | 0.026                               | 5.17                           |
| 31                     | 8.34                          | 0.026                               | 5.13                           |
| 32                     | 8.26                          | 0.026                               | 5.00                           |
| 33                     | 8.19                          | 0.026                               | 4.78                           |
| 34                     |                               |                                     |                                |
| 35                     |                               |                                     |                                |
| 36                     |                               |                                     |                                |
| 37                     |                               |                                     |                                |
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## Water Quality Sampling Data Form – SWRI Project 994

Date: 10/13/04

Observers: S. Pagliughi and B. Ransom

System Name: French Meadows

Sample Site Name: FM 3

Sample Site UTM Location: **Easting** (6 numerals) \_\_\_\_\_

(Datum Used: WGS 84) **Northing** (7 numerals) \_\_\_\_\_

Weather:

Start Time: 1756

Finish Time: 1807

Start Air Temp (°C): 17.6

Finish Air Temp (°C): 17.1

Comments:

Max Depth: 73 ft

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| Surface         | 14.34                  | 0.027                        | 7.47                    |
| 1               | 14.35                  | 0.027                        | 7.35                    |
| 2               | 14.34                  | 0.027                        | 7.39                    |
| 3               | 14.34                  | 0.027                        | 7.37                    |
| 4               | 14.35                  | 0.027                        | 7.37                    |
| 5               | 14.31                  | 0.027                        | 7.40                    |
| 6               | 14.23                  | 0.027                        | 7.30                    |
| 7               | 14.13                  | 0.026                        | 7.26                    |
| 8               | 14.12                  | 0.026                        | 7.30                    |
| 9               | 14.10                  | 0.026                        | 7.29                    |
| 10              | 14.09                  | 0.026                        | 7.26                    |
| 11              | 14.09                  | 0.026                        | 7.19                    |
| 12              | 14.07                  | 0.025                        | 7.21                    |
| 13              | 14.06                  | 0.026                        | 7.21                    |
| 14              | 14.05                  | 0.026                        | 7.16                    |
| 15              | 14.01                  | 0.026                        | 7.19                    |
| 16              | 13.93                  | 0.026                        | 7.26                    |
| 17              | 13.88                  | 0.026                        | 7.22                    |

| <b>Water Depth (m)</b> | <b>Water Temperature (°C)</b> | <b>Specific Conductance (mS/cm)</b> | <b>Dissolved Oxygen (mg/l)</b> |
|------------------------|-------------------------------|-------------------------------------|--------------------------------|
| 18                     | 13.77                         | 0.026                               | 7.25                           |
| 19                     | 13.73                         | 0.026                               | 7.14                           |
| 20                     | 13.70                         | 0.026                               | 7.14                           |
| 21                     | 13.64                         | 0.026                               | 7.16                           |
| 22                     |                               |                                     |                                |
| 23                     |                               |                                     |                                |
| 24                     |                               |                                     |                                |
| 25                     |                               |                                     |                                |
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## Water Quality Sampling Data Form – SWRI Project 994

Date: 10/13/04

Observers: S. Pagliughi and B. Ransom

System Name: Hell Hole

Sample Site Name: HH 1

Sample Site UTM Location: Easting (6 numerals) \_\_\_\_\_

(Datum Used: WGS 84) Northing (7 numerals) \_\_\_\_\_

Weather: Mostly sunny, stiff wind

Start Time: 1448

Finish Time: 1507

Start Air Temp (°C): 20.5

Finish Air Temp (°C): \_\_\_\_\_

Comments: Wind making boat positioning difficult

Max Depth: 148 ft

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| Surface         | 15.5                   | 0.030                        | 7.74                    |
| 1               | 15.49                  | 0.030                        | 7.61                    |
| 2               | 15.49                  | 0.030                        | 7.60                    |
| 3               | 15.49                  | 0.030                        | 7.57                    |
| 4               | 15.49                  | 0.029                        | 7.56                    |
| 5               | 15.49                  | 0.030                        | 7.52                    |
| 6               | 15.49                  | 0.030                        | 7.53                    |
| 7               | 15.49                  | 0.029                        | 7.46                    |
| 8               | 15.49                  | 0.029                        | 7.50                    |
| 9               | 15.48                  | 0.029                        | 7.48                    |
| 10              | 15.49                  | 0.029                        | 7.50                    |
| 11              | 15.47                  | 0.029                        | 7.48                    |
| 12              | 15.47                  | 0.029                        | 7.45                    |
| 13              | 15.47                  | 0.029                        | 7.37                    |
| 14              | 15.47                  | 0.028                        | 7.47                    |
| 15              | 15.45                  | 0.029                        | 7.42                    |
| 16              | 15.42                  | 0.028                        | 7.42                    |
| 17              | 15.22                  | 0.029                        | 7.35                    |

| <b>Water Depth (m)</b> | <b>Water Temperature (°C)</b> | <b>Specific Conductance (mS/cm)</b> | <b>Dissolved Oxygen (mg/l)</b> |
|------------------------|-------------------------------|-------------------------------------|--------------------------------|
| 18                     | 15.21                         | 0.028                               | 7.41                           |
| 19                     | 15.20                         | 0.028                               | 7.36                           |
| 20                     | 15.18                         | 0.028                               | 7.35                           |
| 21                     | 15.18                         | 0.028                               | 7.36                           |
| 22                     | 15.17                         | 0.029                               | 7.33                           |
| 23                     |                               |                                     |                                |
| 24                     | 15.14                         | 0.028                               | 7.38                           |
| 25                     |                               |                                     |                                |
| 26                     | 15.14                         | 0.028                               | 7.28                           |
| 27                     |                               |                                     |                                |
| 28                     | 15.13                         | 0.028                               | 7.37                           |
| 29                     |                               |                                     |                                |
| 30                     | 15.13                         | 0.028                               | 7.38                           |
| 31                     |                               |                                     |                                |
| 32                     | 15.12                         | 0.028                               | 7.37                           |
| 33                     |                               |                                     |                                |
| 34                     | 15.11                         | 0.027                               | 7.33                           |
| 35                     |                               |                                     |                                |
| 36                     | 15.11                         | 0.028                               | 7.34                           |
| 37                     |                               |                                     |                                |
| 38                     | 15.11                         | 0.027                               | 7.37                           |
| 39                     |                               |                                     |                                |
| 40                     |                               |                                     |                                |
| 41                     |                               |                                     |                                |
| 42                     |                               |                                     |                                |
| 43                     |                               |                                     |                                |
| 44                     |                               |                                     |                                |
| 45                     |                               |                                     |                                |
| 46                     |                               |                                     |                                |
| 47                     |                               |                                     |                                |
| 48                     |                               |                                     |                                |
| 49                     |                               |                                     |                                |
| 50                     |                               |                                     |                                |
| 51                     |                               |                                     |                                |
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| 54                     |                               |                                     |                                |
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| 58                     |                               |                                     |                                |

## Water Quality Sampling Data Form – SWRI Project 994

Date: 10/13/04

Observers: S. Pagliughi and B. Ransom

System Name: Hell Hole Reservoir    Sample Site Name: HH-2

Sample Site UTM Location:    **Easting** (6 numerals) \_\_\_\_\_

(Datum Used: WGS 84)    **Northing** (7 numerals) \_\_\_\_\_

Weather: Sunny, mostly clear, breezy

Start Time: 1352

Finish Time: 1433

Start Air Temp (°C): 23.2

Finish Air Temp (°C): 24.5

Comments:

Max Depth: 230 ft

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| Surface         | 15.37                  | 0.029                        | 8.09                    |
| 1               | 15.36                  | 0.030                        | 7.70                    |
| 2               | 15.33                  | 0.030                        | 7.75                    |
| 3               | 15.31                  | 0.029                        | 7.38                    |
| 4               | 15.26                  | 0.029                        | 7.51                    |
| 5               | 15.23                  | 0.029                        | 7.44                    |
| 6               | 15.22                  | 0.029                        | 7.46                    |
| 7               | 15.20                  | 0.029                        | 7.37                    |
| 8               | 15.17                  | 0.029                        | 7.38                    |
| 9               | 15.14                  | 0.029                        | 7.46                    |
| 10              | 15.13                  | 0.029                        | 7.35                    |
| 11              | 15.13                  | 0.029                        | 7.40                    |
| 12              | 15.11                  | 0.029                        | 7.32                    |
| 13              | 15.11                  | 0.029                        | 7.33                    |
| 14              | 15.11                  | 0.028                        | 7.38                    |
| 15              | 15.11                  | 0.028                        | 7.38                    |
| 16              | 15.10                  | 0.028                        | 7.43                    |
| 17              | 15.10                  | 0.028                        | 7.46                    |

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| 18              | 15.08                  | 0.028                        | 7.29                    |
| 19              | 15.08                  | 0.028                        | 7.24                    |
| 20              | 15.08                  | 0.028                        | 7.30                    |
| 21              | 15.08                  | 0.028                        | 7.31                    |
| 22              | 15.06                  | 0.028                        | 7.30                    |
| 23              | 15.06                  | 0.028                        | 7.27                    |
| 24              | 15.06                  | 0.028                        | 7.32                    |
| 25              | 15.05                  | 0.028                        | 7.28                    |
| 26              | 15.05                  | 0.028                        | 7.24                    |
| 27              | 15.05                  | 0.028                        | 7.31                    |
| 28              | 15.05                  | 0.027                        | 7.24                    |
| 29              | 15.04                  | 0.028                        | 7.21                    |
| 30              | 15.04                  | 0.027                        | 7.21                    |
| 31              | 15.03                  | 0.028                        | 7.14                    |
| 32              | 15.02                  | 0.027                        | 7.19                    |
| 33              | 15.01                  | 0.027                        | 7.04                    |
| 34              | 15.01                  | 0.027                        | 7.05                    |
| 35              | 15.00                  | 0.027                        | 7.03                    |
| 36              | 14.98                  | 0.027                        | 7.17                    |
| 37              | 14.98                  | 0.027                        | 7.16                    |
| 38              | 14.98                  | 0.027                        | 7.15                    |
| 39              | 14.98                  | 0.027                        | 7.29                    |
| 40              | 14.98                  | 0.027                        | 7.22                    |
| 41              | 14.94                  | 0.027                        | 7.26                    |
| 42              | 14.94                  | 0.027                        | 7.23                    |
| 43              | 14.94                  | 0.027                        | 7.27                    |
| 44              | 14.90                  | 0.026                        | 7.24                    |
| 45              | 14.86                  | 0.026                        | 7.33                    |
| 46              | 14.84                  | 0.027                        | 7.23                    |
| 47              | 14.82                  | 0.027                        | 7.19                    |
| 48              | 14.73                  | 0.027                        | 7.19                    |
| 49              | 14.26                  | 0.027                        | 6.96                    |
| 50              | 13.62                  | 0.027                        | 6.77                    |
| 51              | 13.30                  | 0.027                        | 6.48                    |
| 52              | 12.73                  | 0.027                        | 6.26                    |
| 53              | 12.43                  | 0.026                        | 6.10                    |
| 54              | 12.00                  | 0.026                        | 6.12                    |
| 55              | 11.58                  | 0.027                        | 6.10                    |
| 56              | 11.30                  | 0.026                        | 6.25                    |
| 57              | 11.01                  | 0.027                        | 6.20                    |
| 58              | 10.91                  | 0.026                        | 6.00                    |

| <b>Water Depth (m)</b> | <b>Water Temperature (°C)</b> | <b>Specific Conductance (mS/cm)</b> | <b>Dissolved Oxygen (mg/l)</b> |
|------------------------|-------------------------------|-------------------------------------|--------------------------------|
| 59                     | 10.76                         | 0.027                               | 5.84                           |
| 60                     | 10.62                         | 0.027                               | 5.89                           |
| 61                     | 10.45                         | 0.027                               | 5.92                           |
| 62                     | 10.36                         | 0.027                               | 5.88                           |
| 63                     | 10.15                         | 0.027                               | 5.98                           |
| 64                     | 10.07                         | 0.058                               | 3.03                           |
| 65                     |                               |                                     |                                |
| 66                     |                               |                                     |                                |
| 67                     |                               |                                     |                                |
| 68                     |                               |                                     |                                |
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| 96                     |                               |                                     |                                |
| 97                     |                               |                                     |                                |
| 98                     |                               |                                     |                                |
| 99                     |                               |                                     |                                |
| 100                    |                               |                                     |                                |

## Water Quality Sampling Data Form – SWRI Project 994

Date: 10/13/04

Observers: S. Pagliughi and B. Ransom

System Name: Hell Hole Reservoir    Sample Site Name: HH-3

Sample Site UTM Location:    **Easting** (6 numerals) \_\_\_\_\_

(Datum Used: \_\_\_\_\_)    **Northing** (7 numerals) \_\_\_\_\_

Weather:

Start Time:

Finish Time:

Start Air Temp (°C):

Finish Air Temp (°C):

Comments: Profile data not collected at HH-3 due to time constraints and high winds on this part of the lake

Max Depth:

| Water Depth (m) | Water Temperature (°C) | Specific Conductance (mS/cm) | Dissolved Oxygen (mg/l) |
|-----------------|------------------------|------------------------------|-------------------------|
| Surface         |                        |                              |                         |
| 1               |                        |                              |                         |
| 2               |                        |                              |                         |
| 3               |                        |                              |                         |
| 4               |                        |                              |                         |
| 5               |                        |                              |                         |
| 6               |                        |                              |                         |
| 7               |                        |                              |                         |
| 8               |                        |                              |                         |
| 9               |                        |                              |                         |
| 10              |                        |                              |                         |
| 11              |                        |                              |                         |
| 12              |                        |                              |                         |
| 13              |                        |                              |                         |
| 14              |                        |                              |                         |
| 15              |                        |                              |                         |
| 16              |                        |                              |                         |
| 17              |                        |                              |                         |