

Sample Number: 514745  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1330  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 16.96 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 3.326 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  | <         | 11.86 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 3.559 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 17.2  | pCi/L | 03/01/12 | 901.1  |           |
| Lead 212 Counting Error     |           | 5.12  | pCi/L | 03/01/12 | 901.1  |           |
| Lead 214                    | <         | 18.2  | pCi/L | 03/01/12 | 901.1  |           |
| Lead 214 Counting Error     | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Bismuth 212                 | <         | 107   | pCi/L | 03/01/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Thorium 234                 | <         | 164   | pCi/L | 03/01/12 | 901.1  |           |
| Thorium 234 Counting Error  |           | 50.0  | pCi/L | 03/01/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Uranium 235                 | <         | 13.7  | pCi/L | 03/01/12 | 901.1  |           |
| Cesium 137                  | <         | 7.98  | pCi/L | 03/01/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Cobalt 60                   | <         | 8.07  | pCi/L | 03/01/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Thallium 208                | <         | 8.10  | pCi/L | 03/01/12 | 901.1  |           |
| Thallium 208 Counting Error | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 40.6  | pCi/L | 03/01/12 | 901.1  |           |
| Potassium 40                | <         | 144   | pCi/L | 03/01/12 | 901.1  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514745  
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Agency Number:  
Date Collected: 2/14/2012  
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Report Date: 5/10/2012

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**Report of Analysis by Radio Chemistry**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

**SAMPLERS COMMENTS:**

S6-AOC-1/KETCHUMS BLUFF; OK3111100010190\_20;1FT FROM SURFACE

**SAMPLE RECEIVING COMMENTS:**

ICE; SAMPLE= 4.5

**ANALYST`S COMMENTS:**

(ND) None detected

\* ANALYST

*Greg Goode*

Greg Goode  
State Environmental Laboratory

Sample Number: 514745  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1330  
Date Received: 2/15/2012  
Date Completed: 03/26/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 3/26/2012

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To: File Copy

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| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 5250  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.28  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 152   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 3110  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 2.34  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.32  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.32  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.208 | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 875   | MG/L     | 03/23/12 | 130.1  |           |
| Chloride                |           | 1340  | MG/L     | 03/08/12 | 325.2  |           |
| Sulfate                 |           | 666   | MG/L     | 03/08/12 | 375.4  |           |

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-1/KETCHUMS BLUFF; OK311100010190\_20;1FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 4.5

ANALYST'S COMMENTS:

Susan Mensik

\* ANALYST

*Susan Mensik*

State Environmental Laboratory

Sample Number: 514746  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1335  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

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| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 18.55 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 5.567 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  | <         | 12.51 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 3.831 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 17.9  | pCi/L | 03/01/12 | 901.1  |           |
| Lead 212 Counting Error     |           | 5.45  | pCi/L | 03/01/12 | 901.1  |           |
| Lead 214                    | <         | 17.6  | pCi/L | 03/01/12 | 901.1  |           |
| Lead 214 Counting Error     | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Bismuth 212                 | <         | 95.9  | pCi/L | 03/01/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Thorium 234                 | <         | 145   | pCi/L | 03/01/12 | 901.1  |           |
| Thorium 234 Counting Error  | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Uranium 235                 | <         | 12.9  | pCi/L | 03/01/12 | 901.1  |           |
| Cesium 137                  | <         | 8.09  | pCi/L | 03/01/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Cobalt 60                   | <         | 7.22  | pCi/L | 03/01/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Thallium 208                | <         | 8.78  | pCi/L | 03/01/12 | 901.1  |           |
| Thallium 208 Counting Error | ND        |       | pCi/L | 03/01/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 42.1  | pCi/L | 03/01/12 | 901.1  |           |
| Potassium 40                | <         | 147   | pCi/L | 03/01/12 | 901.1  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514746  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1335  
Date Received: 2/15/2012  
Date Completed: 03/26/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 3/26/2012

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EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 5220  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.27  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 157   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 3110  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 2.33  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.32  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.32  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.21  | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 875   | MG/L     | 03/23/12 | 130.1  |           |
| Chloride                |           | 1340  | MG/L     | 03/08/12 | 325.2  |           |
| Sulfate                 |           | 646   | MG/L     | 03/08/12 | 375.4  |           |

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-2/KETCHUMS BLUFF; OK311100010190\_20;4FT BELOW SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.4

ANALYST'S COMMENTS:

Susan Mensik

\* ANALYST

*Susan Mensik*

State Environmental Laboratory

Sample Number: 514747  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1340  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

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 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
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To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 11.36 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 3.510 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  |           | 11.04 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 3.448 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 16.1  | pCi/L | 03/02/12 | 901.1  |           |
| Lead 212 Counting Error     |           | 4.79  | pCi/L | 03/02/12 | 901.1  |           |
| Lead 214                    | <         | 16.7  | pCi/L | 03/02/12 | 901.1  |           |
| Lead 214 Counting Error     | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Bismuth 212                 | <         | 113   | pCi/L | 03/02/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Thorium 234                 | <         | 166   | pCi/L | 03/02/12 | 901.1  |           |
| Thorium 234 Counting Error  |           | 49.8  | pCi/L | 03/02/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Uranium 235                 | <         | 13.5  | pCi/L | 03/02/12 | 901.1  |           |
| Cesium 137                  | <         | 7.90  | pCi/L | 03/02/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Cobalt 60                   | <         | 8.49  | pCi/L | 03/02/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Thallium 208                | <         | 8.52  | pCi/L | 03/02/12 | 901.1  |           |
| Thallium 208 Counting Error |           | 2.65  | pCi/L | 03/02/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 40.4  | pCi/L | 03/02/12 | 901.1  |           |
| Potassium 40                | <         | 139   | pCi/L | 03/02/12 | 901.1  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514747  
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Date Received: 2/15/2012  
Date Completed: 05/10/2012  
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PWS Id:  
Location Code:  
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Facility:  
Report Date: 5/10/2012

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Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-3/KETCHUMS BLUFF; OK311100010190\_20; 7.5-8FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.4

ANALYST'S COMMENTS:

(ND) None detected

\* ANALYST

*Greg Goode*

Greg Goode  
State Environmental Laboratory

Sample Number: 514747  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1340  
Date Received: 2/15/2012  
Date Completed: 03/26/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 3/26/2012

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EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 5250  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.30  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 152   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 3090  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 2.34  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.30  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.30  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.212 | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 890   | MG/L     | 03/23/12 | 130.1  |           |
| Chloride                |           | 1340  | MG/L     | 03/08/12 | 325.2  |           |
| Sulfate                 |           | 637   | MG/L     | 03/08/12 | 375.4  |           |

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-3/KETCHUMS BLUFF; OK311100010190\_20; 7.5-8FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.4

ANALYST'S COMMENTS:

Susan Mensik

\* ANALYST

*Susan Mensik*

State Environmental Laboratory

Sample Number: 514748  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1340  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

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**STATE ENVIRONMENTAL LABORATORY**  
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**Report of Analysis by Radio Chemistry**  
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CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 0.480 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 3.858 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  | <         | 11.78 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 3.583 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 16.0  | pCi/L | 01/01/00 | 901.1  |           |
| Lead 212 Counting Error     |           | 4.80  | pCi/L | 03/02/12 | 901.1  |           |
| Lead 214                    | <         | 18.0  | pCi/L | 03/02/12 | 901.1  |           |
| Lead 214 Counting Error     | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Bismuth 212                 | <         | 112   | pCi/L | 03/02/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Thorium 234                 | <         | 164   | pCi/L | 03/02/12 | 901.1  |           |
| Thorium 234 Counting Error  |           | 49.3  | pCi/L | 03/02/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Uranium 235                 | <         | 13.0  | pCi/L | 03/02/12 | 901.1  |           |
| Cesium 137                  | <         | 7.92  | pCi/L | 03/02/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Cobalt 60                   | <         | 8.02  | pCi/L | 03/02/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Thallium 208                | <         | 8.99  | pCi/L | 03/02/12 | 901.1  |           |
| Thallium 208 Counting Error | ND        |       | pCi/L | 03/02/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 32.1  | pCi/L | 03/02/12 | 901.1  |           |
| Potassium 40                | <         | 69.9  | pCi/L | 03/02/12 | 901.1  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514748  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1340  
Date Received: 2/15/2012  
Date Completed: 05/10/2012  
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Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

**SAMPLERS COMMENTS:**

S6-AOC-3D (DUPLICATE); OK311100010190\_20; 7.5-8 FEET FROM SURFACE

**SAMPLE RECEIVING COMMENTS:**

ICE; SAMPLE= 2.4

**ANALYST'S COMMENTS:**

(ND) None detected

\*

\* ANALYST

*Greg Goode*

Greg Goode  
State Environmental Laboratory

Sample Number: 514748  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
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Date Received: 2/15/2012  
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EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 5240  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.27  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 153   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 3120  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 2.28  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.25  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.25  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.214 | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 855   | MG/L     | 03/14/12 | 130.1  |           |
| Chloride                |           | 1360  | MG/L     | 03/23/12 | 325.2  |           |
| Sulfate                 |           | 652   | MG/L     | 03/08/12 | 375.4  |           |

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-3D (DUPLICATE); OK311100010190\_20; 7.5-8 FEET FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.4

ANALYST'S COMMENTS:

Susan Mensik

\* ANALYST

*Susan Mensik*

State Environmental Laboratory

Sample Number: 514749  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1828  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 8.555 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 2.162 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  | <         | 7.438 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 2.328 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 15.6  | pCi/L | 03/03/12 | 901.1  |           |
| Lead 212 Counting Error     | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Lead 214                    | <         | 17.8  | pCi/L | 03/03/12 | 901.1  |           |
| Lead 214 Counting Error     | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Bismuth 212                 | <         | 103   | pCi/L | 03/03/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Thorium 234                 | <         | 151   | pCi/L | 03/03/12 | 901.1  |           |
| Thorium 234 Counting Error  |           | 44.6  | pCi/L | 03/03/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Uranium 235                 | <         | 13.5  | pCi/L | 03/03/12 | 901.1  |           |
| Cesium 137                  | <         | 7.81  | pCi/L | 03/03/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Cobalt 60                   | <         | 8.23  | pCi/L | 03/03/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Thallium 208                | <         | 8.54  | pCi/L | 03/03/12 | 901.1  |           |
| Thallium 208 Counting Error | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 40.8  | pCi/L | 03/03/12 | 901.1  |           |
| Potassium 40                | <         | 143   | pCi/L | 03/03/12 | 901.1  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514749  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1828  
Date Received: 2/15/2012  
Date Completed: 03/26/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 3/26/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY**

707 N. ROBINSON

OKLAHOMA CITY

OKLAHOMA, 73102-6010

General Inquiries: 1-800-869-1400

Sample Receiving: (405) 702-1113

**Report of Analysis by General Chem.**

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 3160  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.52  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 103   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 1810  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 1.32  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.32  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.32  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.12  | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 540   | MG/L     | 03/23/12 | 130.1  |           |
| Chloride                |           | 804   | MG/L     | 03/08/12 | 325.2  |           |
| Sulfate                 |           | 357   | MG/L     | 03/08/12 | 375.4  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem. Metals Gen. Chem.

**SOURCE:** RED RIVER BASE LINE

**SAMPLERS COMMENTS:**

S9-DAOC-1/ADDINGTON BEND; OK311100010190\_00;THE SURFACE

**SAMPLE RECEIVING COMMENTS:**

ICE; SAMPLE= 1.9

**ANALYST`S COMMENTS:**

Susan Mensik

*Susan Mensik*

\* ANALYST

State Environmental Laboratory

Sample Number: 514750  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1820  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 8.310 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 2.211 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  | <         | 7.552 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 2.303 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 17.0  | pCi/L | 03/03/12 | 901.1  |           |
| Lead 212 Counting Error     |           | 5.12  | pCi/L | 03/03/12 | 901.1  |           |
| Lead 214                    | <         | 17.4  | pCi/L | 03/03/12 | 901.1  |           |
| Lead 214 Counting Error     | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Bismuth 212                 | <         | 104   | pCi/L | 03/03/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Thorium 234                 | <         | 165   | pCi/L | 03/03/12 | 901.1  |           |
| Thorium 234 Counting Error  |           | 48.7  | pCi/L | 03/03/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Uranium 235                 | <         | 12.9  | pCi/L | 03/03/12 | 901.1  |           |
| Cesium 137                  | <         | 8.31  | pCi/L | 03/03/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Cobalt 60                   | <         | 8.18  | pCi/L | 03/03/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Thallium 208                | <         | 7.62  | pCi/L | 03/03/12 | 901.1  |           |
| Thallium 208 Counting Error | ND        |       | pCi/L | 03/03/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 38.4  | pCi/L | 03/03/12 | 901.1  |           |
| Potassium 40                | <         | 140   | pCi/L | 03/03/12 | 901.1  |           |

**Summary**

**Labs performing analysis on this Sample:**

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514750  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1820  
Date Received: 2/15/2012  
Date Completed: 05/10/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:  
S9-DAOC-2/ADDINGTON BEND; OK311100010190\_00

SAMPLE RECEIVING COMMENTS:  
ICE; SAMPLE= 1.9

ANALYST'S COMMENTS:  
(ND) None detected

\*

\* ANALYST

*Greg Goode*

Greg Goode  
State Environmental Laboratory

Sample Number: 514750  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1820  
Date Received: 2/15/2012  
Date Completed: 03/26/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by General Chem.**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 3180  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.48  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 104   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 1810  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 1.36  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.36  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.36  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.123 | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 565   | MG/L     | 03/23/12 | 130.1  |           |
| Chloride                |           | 809   | MG/L     | 03/08/12 | 325.2  |           |
| Sulfate                 |           | 367   | MG/L     | 03/08/12 | 375.4  |           |

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S9-DAOC-2/ADDINGTON BEND; OK311100010190\_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.9

ANALYST'S COMMENTS:

Susan Mensik

\* ANALYST

*Susan Mensik*

State Environmental Laboratory

Sample Number: 514751  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1810  
 Date Received: 2/15/2012  
 Date Completed: 05/10/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 5/10/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| GROSS ALPHA                 | <         | 7.805 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS ALPHA COUNTING ERROR  |           | 1.972 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA                  |           | 9.493 | pCi/L | 03/15/12 | 7110B  |           |
| GROSS BETA COUNTING ERROR   |           | 2.400 | pCi/L | 03/15/12 | 7110B  |           |
| Lead 212                    | <         | 16.1  | pCi/L | 03/04/12 | 901.1  |           |
| Lead 212 Counting Error     | ND        |       | pCi/L | 03/04/12 | 901.1  |           |
| Lead 214                    | <         | 15.9  | pCi/L | 03/04/12 | 901.1  |           |
| Lead 214 Counting Error     |           | 6.00  | pCi/L | 03/04/12 | 901.1  |           |
| Bismuth 212                 | <         | 108   | pCi/L | 03/04/12 | 901.1  |           |
| Bismuth 212 Counting Error  | ND        |       | pCi/L | 03/04/12 | 901.1  |           |
| Thorium 234                 | <         | 167   | pCi/L | 03/04/12 | 901.1  |           |
| Thorium 234 Counting Error  |           | 49.8  | pCi/L | 03/04/12 | 901.1  |           |
| Uranium 235 Counting Error  | ND        |       | pCi/L | 03/04/12 | 901.1  |           |
| Uranium 235                 | <         | 13.4  | pCi/L | 03/04/12 | 901.1  |           |
| Cesium 137                  | <         | 7.88  | pCi/L | 03/04/12 | 901.1  |           |
| Cesium 137 Counting Error   | ND        |       | pCi/L | 03/04/12 | 901.1  |           |
| Cobalt 60                   | <         | 8.29  | pCi/L | 03/04/12 | 901.1  |           |
| Cobalt 60 Counting Error    | ND        |       | pCi/L | 03/04/12 | 901.1  |           |
| Thallium 208                | <         | 9.41  | pCi/L | 03/04/12 | 901.1  |           |
| Thallium 208 Counting Error | ND        |       | pCi/L | 03/04/12 | 901.1  |           |
| Potassium 40 Counting Error |           | 38.8  | pCi/L | 03/04/12 | 901.1  |           |
| Potassium 40                | <         | 137   | pCi/L | 03/04/12 | 901.1  |           |

**Summary**

Labs performing analysis on this Sample:

Rad. Chem.    Metals    Gen. Chem.

Sample Number: 514751  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1810  
Date Received: 2/15/2012  
Date Completed: 05/10/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 5/10/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by Radio Chemistry**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:  
S9-DAOC-3/ADDINGTON BEND; OK311100010190\_00

SAMPLE RECEIVING COMMENTS:  
ICE; SAMPLE= 1.4

ANALYST'S COMMENTS:  
(ND) None detected

\*

\* ANALYST

*Greg Goode*

Greg Goode  
State Environmental Laboratory

Sample Number: 514751  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1810  
Date Received: 2/15/2012  
Date Completed: 03/26/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 3/26/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by General Chem.**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                    | Qualifier | Value | Units    | Analyzed | Method | Prep Type |
|-------------------------|-----------|-------|----------|----------|--------|-----------|
| Specific Conductance    |           | 3100  | uMHO/CM  | 02/15/12 | 2510B  |           |
| pH, Liquid              |           | 8.41  | STD UNIT | 02/15/12 | 150.1  |           |
| Alkalinity, Total       |           | 104   | MG/L     | 02/17/12 | 310.2  |           |
| Solids, Total Dissolved |           | 1810  | MG/L     | 02/17/12 | 2540C  |           |
| Nitrogen, Total         |           | 1.45  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Organic       |           | 1.45  | MG/L     | 03/15/12 | CALC   |           |
| Nitrogen, Ammonia       | <         | 0.10  | MG/L     | 02/16/12 | 350.1  |           |
| Nitrogen, Kjeldahl      |           | 1.45  | MG/L     | 02/29/12 | 351.2  |           |
| Phosphorus, Total       |           | 0.136 | MG/L     | 03/05/12 | 365.3  |           |
| Hardness, Total         |           | 555   | MG/L     | 03/23/12 | 130.1  |           |
| Chloride                |           | 814   | MG/L     | 03/08/12 | 325.2  |           |
| Sulfate                 |           | 373   | MG/L     | 03/08/12 | 375.4  |           |

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals Gen. Chem.

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S9-DAOC-3/ADDINGTON BEND; OK311100010190\_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.4

ANALYST'S COMMENTS:

Susan Mensik

*Susan Mensik*

\* ANALYST

State Environmental Laboratory

**Sample Number:** 514752  
**Project Code:** RR-BLP  
**Agency Number:**  
**Date Collected:** 2/14/2012  
**Time Collected:** 1030  
**Date Received:** 2/15/2012  
**Date Completed:** 02/22/2012  
**Collected By:** TD  
**PWS Id:**  
**Location Code:**  
**Station:**  
**Facility:**  
**Report Date:** 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.0   |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 3-Styrene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514752  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1030  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514752  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1030  
Date Received: 2/15/2012  
Date Completed: 02/22/2012  
Collected By: TD  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/22/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 1,2-DICHLOROBENZENE-D4 |                      | 100        |
| 4-BROMOFLUOROBENZENE   |                      | 97         |
| MTBE-D3                |                      | 102        |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S1-UAOC/DAVIDSON/HWY 70 BRIDGE; OK311310010010\_00

SAMPLE RECEIVING COMMENTS:

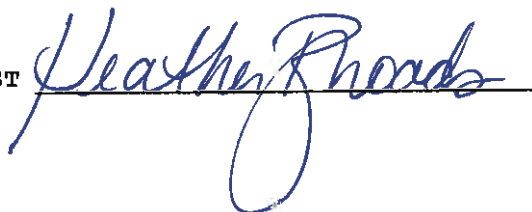
ICE; SAMPLE= 1.0

ANALYST'S COMMENTS:

(8260CM) Heather Rhoads

\*

\* ANALYST



Sample Number: 514753  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected:  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.0   |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514753  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected:  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514753  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected:  
Date Received: 2/15/2012  
Date Completed: 02/22/2012  
Collected By: TD  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/22/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 4-BROMOFLUOROBENZENE   |                      | 100        |
| MTBE-D3                |                      | 101        |
| 1,2-DICHLOROBENZENE-D4 |                      | 100        |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S1-UAOC/DAVIDSON/HWY 70 BRIDGE; OK311310010010\_00;TRIP BLANK

SAMPLE RECEIVING COMMENTS:

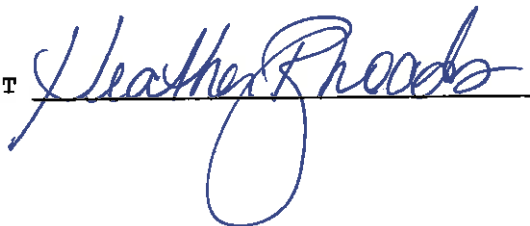
ICE; SAMPLE= 1.0

ANALYST'S COMMENTS:

(8260CM) Heather Rhoads

\*

\* ANALYST



Sample Number: 514754  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1145  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.0   |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514754  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1145  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514754  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1145  
Date Received: 2/15/2012  
Date Completed: 02/22/2012  
Collected By: TD  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/22/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 4-BROMOFLUOROBENZENE   |                      | 101        |
| MTBE-D3                |                      | 103        |
| 1,2-DICHLOROBENZENE-D4 |                      | 101        |

| COMPOUND     | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|--------------|-------------------------------------------------|-------|-------|
| NOT ANALYZED |                                                 |       |       |

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S1-UAOC/DAVIDSON/HWY 70 BRIDGE; OK311310010010\_00; FIELD BLANK

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.0

ANALYST'S COMMENTS:

(8260CM) Heather Rhoads

\*

\* ANALYST



Sample Number: 514755  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1400  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #DK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514755  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1400  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514755  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1400  
Date Received: 2/15/2012  
Date Completed: 02/21/2012  
Collected By: TD  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/23/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 1,2-DICHLOROBENZENE-D4 |                      | 95         |
| MTBE-D3                |                      | 102        |
| 4-BROMOFLUOROBENZENE   |                      | 91         |

| COMPOUND     | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|--------------|-------------------------------------------------|-------|-------|
| NOT ANALYZED |                                                 |       |       |

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S2-UAOC/BURKBURNETT/I-44 BRIDGE; OK311310010010\_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.4

ANALYST'S COMMENTS:

Olivia Pierce (8260C)

\* ANALYST

*Olivia Pierce*

Sample Number: 134756  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1624  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 54756  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1624  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514756  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1624  
Date Received: 2/15/2012  
Date Completed: 02/21/2012  
Collected By: TD  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/23/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| MTBE-D3                |                      | 104        |
| 1,2-DICHLOROBENZENE-D4 |                      | 95         |
| 4-BROMOFLUOROBENZENE   |                      | 91         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

**Summary**

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S3-UAOC/DOWNSTREAM CACHE CREEK; OK311200000010\_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.3

ANALYST'S COMMENTS:

Olivia Pierce (8260C) -

\* ANALYST



Sample Number: 514757  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1545  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK000013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        |           | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514757  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1545  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514757  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1545  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| SURROGATE RECOVERIES   |  | RECOVERY % |
|------------------------|--|------------|
| COMPOUND               |  |            |
| 4-BROMOFLUOROBENZENE   |  | 90         |
| MTBE-D3                |  | 100        |
| 1,2-DICHLOROBENZENE-D4 |  | 95         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S4-UAOC/HWY 79 BRIDGE; OK31120000010\_00

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.8

ANALYST'S COMMENTS:

Olivia Pierce (8260C) -

\* ANALYST

*Olivia Pierce*

Sample Number: 514758  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1313  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514758  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1313  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OKD0013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514758  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1313  
Date Received: 2/15/2012  
Date Completed: 02/21/2012  
Collected By: HC  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/23/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| MTBE-D3                |                      | 102        |
| 1,2-DICHLOROBENZENE-D4 |                      | 95         |
| 4-BROMOFLUOROBENZENE   |                      | 90         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

**Summary**

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S5-AOC/HWY 81 BRIDGE;OK311100010190\_20

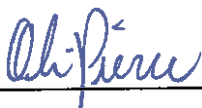
SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.5

ANALYST'S COMMENTS:

Olivia Pierce (8260C)

\* ANALYST



Sample Number: 514759  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 0947  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514759  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 0947  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113

**Report of Analysis by GCMS**

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514759  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 0947  
Date Received: 2/15/2012  
Date Completed: 02/21/2012  
Collected By: HC  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/23/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 4-BROMOFLUOROBENZENE   |                      | 90         |
| MTBE-D3                |                      | 101        |
| 1,2-DICHLOROBENZENE-D4 |                      | 96         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S8-DAOC/HWY 89 BRIDGE; OK311100010190\_20

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.1

ANALYST'S COMMENTS:

Olivia Pierce (8260C) -

\* ANALYST 

Sample Number: 514760  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 0947  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514760  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 0947  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514760  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 0947  
Date Received: 2/15/2012  
Date Completed: 02/21/2012  
Collected By: HC  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/23/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| MTBE-D3                |                      | 102        |
| 4-BROMOFLUOROBENZENE   |                      | 92         |
| 1,2-DICHLOROBENZENE-D4 |                      | 94         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S8-DAOC/HWY 89 BRIDGE; OK311100010190\_20;TRIP BLANK

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.1

ANALYST'S COMMENTS:

Olivia Pierce (8260C) -

\* ANALYST 

Sample Number: 514761  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 0947  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.00  |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514761  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 0947  
 Date Received: 2/15/2012  
 Date Completed: 02/21/2012  
 Collected By: HC  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/23/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514761  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 0947  
Date Received: 2/15/2012  
Date Completed: 02/21/2012  
Collected By: HC  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/23/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 4-BROMOFLUOROBENZENE   |                      | 90         |
| MTBE-D3                |                      | 102        |
| 1,2-DICHLOROBENZENE-D4 |                      | 95         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S8-DAOC/HWY 89 BRIDGE; OK311100010190\_20;FIELD BLANK

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 3.1

ANALYST'S COMMENTS:

Olivia Pierce (8260C) -

\*

\* ANALYST



Sample Number: 514762  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1059  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.0   |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514762  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1059  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514762  
Project Code: RR-BLP  
Agency Number:  
Date Collected: 2/14/2012  
Time Collected: 1059  
Date Received: 2/15/2012  
Date Completed: 02/22/2012  
Collected By: BM  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 2/22/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE ENVIRONMENTAL LABORATORY  
707 N. ROBINSON  
OKLAHOMA CITY  
OKLAHOMA, 73102-6010  
General Inquiries: 1-800-869-1400  
Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100   | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 1,2-DICHLOROBENZENE-D4 |                      | 101        |
| 4-BROMOFLUOROBENZENE   |                      | 102        |
| MTBE-D3                |                      | 103        |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:  
GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:  
S7-AOC/DOWNSTREAM OF RED CREEK;OK311100010190\_20

SAMPLE RECEIVING COMMENTS:  
ICE; SAMPLE= 3.0

ANALYST'S COMMENTS:  
(8260CM) Heather Rhoads

\* ANALYST



Sample Number: 514763  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1330  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeable: |           | 1.0   |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514763  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1330  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514763  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1330  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 4-BROMOFLUOROBENZENE   |                      | 99         |
| MTBE-D3                |                      | 104        |
| 1,2-DICHLOROBENZENE-D4 |                      | 102        |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

| Summary |
|---------|
|---------|

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-1/KETCHUM BLUFF;OK311100010190\_02;1FT FROM SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 4.5

ANALYST'S COMMENTS:

(8260CM) Heather Rhoads

\*

\* ANALYST

*Heather Rhoads*

Sample Number: 514764  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1335  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113

**Report of Analysis by GCMS**

EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| Dilution Factor, Purgeables |           | 1.0   |       | 02/16/12 |        |           |
| Bromodichloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon tetrachloride        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromoform                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroform                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Toluene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Benzene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chlorobenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromochloromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloroethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Ethylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Hexachlorobutadiene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromomethane                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Chloromethane               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylene chloride          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Tetrachloroethene           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloroethene          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2-Trichloroethane       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,2,2-Tetrachloroethane   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloroethane          | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,2-Dichloroethene    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Naphthalene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| trans-1,3-Dichloropropene   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,3-Dichloropropene     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Vinyl chloride              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichloroethene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylisobutyl ketone       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Carbon disulfide in water   | <         | 10.0  | ug/L  | 02/16/12 | 8260CM |           |
| 2-Hexanone                  | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Styrene                     | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514764  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1335  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
**707 N. ROBINSON**  
**OKLAHOMA CITY**  
**OKLAHOMA, 73102-6010**  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                           | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|--------------------------------|-----------|-------|-------|----------|--------|-----------|
| o-Xylene                       | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1-Dichloropropene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2,2-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichloropropane            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Butylbenzene                 | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3,5-Trimethylbenzene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 2-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 4-Chlorotoluene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| sec-Butylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| p-Isopropyltoluene             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,3-Trichloropropane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,1,1,2-Tetrachloroethane      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dibromomethane (MDB)           | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| n-Propylbenzene                | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Total Xylenes                  | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| Acetone                        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromobenzene                   | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylethyl Ketone             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| m & p Xylene                   | <         | 20.0  | UG/L  | 02/16/12 | 8260CM |           |
| tert-Butylbenzene              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Bromochloromethane             | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Dichlorodifluoromethane        | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Trichlorofluoromethane         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methyl tert-butyl ether (MTBE) | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| cis-1,2-Dichloroethene         | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Cyclohexane                    | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Methylcyclohexane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dibromoethane              | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| Isopropylbenzene               | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,3-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dichlorobenzene            | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |

Sample Number: 514764  
 Project Code: RR-BLP  
 Agency Number:  
 Date Collected: 2/14/2012  
 Time Collected: 1335  
 Date Received: 2/15/2012  
 Date Completed: 02/22/2012  
 Collected By: BM  
 FWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 2/22/2012

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-800-869-1400  
 Sample Receiving: (405) 702-1113  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

| Name                        | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|-----------------------------|-----------|-------|-------|----------|--------|-----------|
| 1,2-Dibromo-3-chloropropane | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,2,4-Trichlorobenzene      | <         | 10.0  | UG/L  | 02/16/12 | 8260CM |           |
| 1,4-Dioxane                 | <         | 100.0 | UG/L  | 02/16/12 | 8260CM |           |

| COMPOUND               | SURROGATE RECOVERIES | RECOVERY % |
|------------------------|----------------------|------------|
| 4-BROMOFLUOROBENZENE   |                      | 101        |
| 1,2-DICHLOROBENZENE-D4 |                      | 102        |
| MTBE-D3                |                      | 101        |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|-------------------------------------------------|-------|-------|
|----------|-------------------------------------------------|-------|-------|

NOT ANALYZED

**Summary**

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER BASE LINE

SAMPLERS COMMENTS:

S6-AOC-2/KETCHUM BLUFF;OK311100010190\_02;4FT BELOW SURFACE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 2.4

ANALYST'S COMMENTS:

(8260CM) Heather Rhoads

\*

\* ANALYST

*Heather Rhoads*