

Sample Number: 508323
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/18/2011
 Time Collected: 1911
 Date Received: 8/19/2011
 Date Completed: 08/26/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/26/2011

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 #OK02013

To: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		46.7				
Acenaphthylene	<	470	UG/KG	08/22/11	8270DM	
Acenaphthene	<	470	UG/KG	08/22/11	8270DM	
Anthracene	<	470	UG/KG	08/22/11	8270DM	
Benzo(b)fluoranthene	<	470	UG/KG	08/22/11	8270DM	
Benzo(k)fluoranthene	<	470	UG/KG	08/22/11	8270DM	
Benzo(a)pyrene	<	470	UG/KG	08/22/11	8270DM	
Bis(2-chloroethyl)ether	<	470	UG/KG	08/22/11	8270DM	
Bis(2-chloroethoxy)methane	<	470	UG/KG	08/22/11	8270DM	
Bis(2-chloroisopropyl)ether	<	470	UG/KG	08/22/11	8270DM	
Butylbenzylphthalate	<	470	UG/KG	08/22/11	8270DM	
Chrysene	<	470	UG/KG	08/22/11	8270DM	
Diethylphthalate	<	470	UG/KG	08/22/11	8270DM	
Dimethylphthalate	<	470	UG/KG	08/22/11	8270DM	
Fluoranthene	<	470	UG/KG	08/22/11	8270DM	
Fluorene	<	470	UG/KG	08/22/11	8270DM	
Hexachlorocyclopentadiene	<	470	UG/KG	08/22/11	8270DM	
Hexachloroethane	<	470	UG/KG	08/22/11	8270DM	
Indeno(123cd)pyrene	<	470	UG/KG	08/22/11	8270DM	
Isophorone	<	470	UG/KG	08/22/11	8270DM	
Nitrosodipropylamine	<	470	UG/KG	08/22/11	8270DM	
Nitrosodiphenylamine	<	470	UG/KG	08/22/11	8270DM	
Naphthalene	<	470	UG/KG	08/22/11	8270DM	
Nitrobenzene	<	470	UG/KG	08/22/11	8270DM	
p-Chloro-m-cresol	<	470	UG/KG	08/22/11	8270DM	
Phenanthrene	<	470	UG/KG	08/22/11	8270DM	
Pyrene	<	470	UG/KG	08/22/11	8270DM	
Benzo(ghi)perylene	<	470	UG/KG	08/22/11	8270DM	
Benzo(a)anthracene	<	470	UG/KG	08/22/11	8270DM	
Dibenzo(ah)anthracene	<	470	UG/KG	08/22/11	8270DM	
2-Chloronaphthalene	<	470	UG/KG	08/22/11	8270DM	
2-Chlorophenol	<	470	UG/KG	08/22/11	8270DM	
2-Nitrophenol	<	470	UG/KG	08/22/11	8270DM	

Sample Number: 508323
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/18/2011
 Time Collected: 1911
 Date Received: 8/19/2011
 Date Completed: 08/26/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	470	UG/KG	08/22/11	8270DM	
2,4-Dichlorophenol	<	470	UG/KG	08/22/11	8270DM	
2,4-Dimethylphenol	<	470	UG/KG	08/22/11	8270DM	
2,4-Dinitrotoluene	<	470	UG/KG	08/22/11	8270DM	
2,4-Dinitrophenol	<	2300	UG/KG	08/22/11	8270DM	
2,4,6-Trichlorophenol	<	2300	UG/KG	08/22/11	8270DM	
2,6-Dinitrotoluene	<	470	UG/KG	08/22/11	8270DM	
3,3'-Dichlorobenzidine	<	930	UG/KG	08/22/11	8270DM	
4-Bromophenylphenyl ether	<	470	UG/KG	08/22/11	8270DM	
4-Chlorophenyl phenylether	<	470	UG/KG	08/22/11	8270DM	
4-Nitrophenol	<	2300	UG/KG	08/22/11	8270DM	
4,6-Dinitro-o-cresol	<	2300	UG/KG	08/22/11	8270DM	
Phenol	<	470	UG/KG	08/22/11	8270DM	
Pentachlorophenol	<	2300	UG/KG	08/22/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	470	UG/KG	08/22/11	8270DM	
Di-n-butylphthalate	<	470	UG/KG	08/22/11	8270DM	
Hexachlorobenzene	<	470	UG/KG	08/22/11	8270DM	
Hexachlorobutadiene	<	470	UG/KG	08/22/11	8270DM	
Benzyl alcohol	<	470	UG/KG	08/22/11	8270DM	
Dibenzofuran	<	470	UG/KG	08/22/11	8270DM	
2-Methylphenol	<	470	UG/KG	08/22/11	8270DM	
4-Methylphenol	<	470	UG/KG	08/22/11	8270DM	
2,4,5-Trichlorophenol	<	2300	UG/KG	08/22/11	8270DM	
4-Chloroaniline	<	470	UG/KG	08/22/11	8270DM	
2-Nitroaniline	<	2300	UG/KG	08/22/11	8270DM	
3-Nitroaniline	<	2300	UG/KG	08/22/11	8270DM	
4-Nitroaniline	<	2300	UG/KG	08/22/11	8270DM	
2-Methylnaphthalene	<	470	UG/KG	08/22/11	8270DM	
% Moisture - GC/MS Lab		29.	%	08/22/11	1005 M	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPIPHENYL		68
2-FLUOROPHENOL		68

Sample Number: 508323
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 1911
Date Received: 8/19/2011
Date Completed: 08/26/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		76
P-TERPHENYL-D14		70
NITROBENZENE-D5		69
2,4,6-TRIBROMOPHENOL		74

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
(MJ) Hentricontane		120	µg/kg
(MJ) Sulfur		280	µg/kg
(MJ) Nonacosane		170	µg/kg
Cyclic octaatomic sulfur		520	µg/kg
Friedelan-3-one		750	µg/kg

Summary

Labs performing analysis on this Sample:

Metals GCMS Gen. Chem.

SOURCE: BEAVER CREEK

SAMPLERS COMMENTS:

SITE # 11

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentration. (MJ) The associated value is an estimated quantity at or below the adjusted lower limit of quantitation for this analysis and reported at the request of the customer.

* ANALYST

Cassandra Kontas

Sample Number: 508323
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 1911
Date Received: 8/19/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Chloride (Sed.)	<	200	MG/KG	08/29/11	325.2M	
Sulfate (Sed.)		2210	MG/KG	08/29/11	375.4M	

Summary

Labs performing analysis on this Sample:

Metals GCMS Gen. Chem.

SOURCE: BEAVER CREEK

SAMPLERS COMMENTS:

SITE # 11

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory

Sample Number: 508323
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 1911
Date Received: 8/19/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Sediment	<	1.00	MG/KG	08/25/11	6010	3051
Arsenic, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Barium, Sediment		210	MG/KG	08/25/11	6010	3051
Beryllium, Sediment	<	2.00	MG/KG	08/25/11	6010	3051
Cadmium , Sediment	<	5.00	MG/KG	08/25/11	6010	3051
Chromium, Sediment		20.8	MG/KG	08/25/11	6010	3051
Copper, Sediment		9.60	MG/KG	08/25/11	6010	3051
Lead, Sediment		11.0	MG/KG	08/25/11	6010	3051
Nickel, Sediment		13.1	MG/KG	08/25/11	6010	3051
Silver, Sediment	<	5.00	MG/KG	08/25/11	6010	3051
Strontium, Sediment		37.5	MG/KG	08/25/11	6010	3051
Zinc, Sediment		23.1	MG/KG	08/25/11	6010	3051
Antimony, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Selenium, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Thallium, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Mercury, Sediment	<	0.25	MG/KG	09/02/11	7471	3051
% Solids		71.6	%	08/25/11	CLP 5.4	3051

Summary

Labs performing analysis on this Sample:

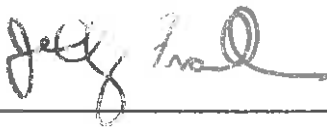
Metals GCMS Gen. Chem.

SOURCE: BEAVER CREEK

SAMPLERS COMMENTS:

SITE # 11

ANALYST'S COMMENTS:

* ANALYST 

Sample Number: 508324
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/18/2011
 Time Collected: 2015
 Date Received: 8/19/2011
 Date Completed: 08/26/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		49.3				
Acenaphthylene	<	490	UG/KG	08/22/11	8270DM	
Acenaphthene	<	490	UG/KG	08/22/11	8270DM	
Anthracene	<	490	UG/KG	08/22/11	8270DM	
Benzo(b)fluoranthene	<	490	UG/KG	08/22/11	8270DM	
Benzo(k)fluoranthene	<	490	UG/KG	08/22/11	8270DM	
Benzo(a)pyrene	<	490	UG/KG	08/22/11	8270DM	
Bis(2-chloroethyl)ether	<	490	UG/KG	08/22/11	8270DM	
Bis(2-chloroethoxy)methane	<	490	UG/KG	08/22/11	8270DM	
Bis(2-chloroisopropyl)ethe	<	490	UG/KG	08/22/11	8270DM	
Butylbenzylphthalate	<	490	UG/KG	08/22/11	8270DM	
Chrysene	<	490	UG/KG	08/22/11	8270DM	
Diethylphthalate	<	490	UG/KG	08/22/11	8270DM	
Dimethylphthalate	<	490	UG/KG	08/22/11	8270DM	
Fluoranthene	<	490	UG/KG	08/22/11	8270DM	
Fluorene	<	490	UG/KG	08/22/11	8270DM	
Hexachlorocyclopentadiene	<	490	UG/KG	08/22/11	8270DM	
Hexachloroethane	<	490	UG/KG	08/22/11	8270DM	
Indeno(123cd)pyrene	<	490	UG/KG	08/22/11	8270DM	
Isophorone	<	490	UG/KG	08/22/11	8270DM	
Nitrosodipropylamine	<	490	UG/KG	08/22/11	8270DM	
Nitrosodiphenylamine	<	490	UG/KG	08/22/11	8270DM	
Naphthalene	<	490	UG/KG	08/22/11	8270DM	
Nitrobenzene	<	490	UG/KG	08/22/11	8270DM	
p-Chloro-m-cresol	<	490	UG/KG	08/22/11	8270DM	
Phenanthrene	<	490	UG/KG	08/22/11	8270DM	
Pyrene	<	490	UG/KG	08/22/11	8270DM	
Benzo(ghi)perylene	<	490	UG/KG	08/22/11	8270DM	
Benzo(a)anthracene	<	490	UG/KG	08/22/11	8270DM	
Dibenzo(ah)anthracene	<	490	UG/KG	08/22/11	8270DM	
2-Chloronaphthalene	<	490	UG/KG	08/22/11	8270DM	
2-Chlorophenol	<	490	UG/KG	08/22/11	8270DM	
2-Nitrophenol	<	490	UG/KG	08/22/11	8270DM	

Sample Number: 508324
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/18/2011
 Time Collected: 2015
 Date Received: 8/19/2011
 Date Completed: 08/26/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	490	UG/KG	08/22/11	8270DM	
2,4-Dichlorophenol	<	490	UG/KG	08/22/11	8270DM	
2,4-Dimethylphenol	<	490	UG/KG	08/22/11	8270DM	
2,4-Dinitrotoluene	<	490	UG/KG	08/22/11	8270DM	
2,4-Dinitrophenol	<	2500	UG/KG	08/22/11	8270DM	
2,4,6-Trichlorophenol	<	2500	UG/KG	08/22/11	8270DM	
2,6-Dinitrotoluene	<	490	UG/KG	08/22/11	8270DM	
3,3'-Dichlorobenzidine	<	990	UG/KG	08/22/11	8270DM	
4-Bromophenylphenyl ether	<	490	UG/KG	08/22/11	8270DM	
4-Chlorophenyl phenylether	<	490	UG/KG	08/22/11	8270DM	
4-Nitrophenol	<	2500	UG/KG	08/22/11	8270DM	
4,6-Dinitro-o-cresol	<	2500	UG/KG	08/22/11	8270DM	
Phenol	<	490	UG/KG	08/22/11	8270DM	
Pentachlorophenol	<	2500	UG/KG	08/22/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	490	UG/KG	08/22/11	8270DM	
Di-n-butylphthalate	<	490	UG/KG	08/22/11	8270DM	
Hexachlorobenzene	<	490	UG/KG	08/22/11	8270DM	
Hexachlorobutadiene	<	490	UG/KG	08/22/11	8270DM	
Benzyl alcohol	<	490	UG/KG	08/22/11	8270DM	
Dibenzofuran	<	490	UG/KG	08/22/11	8270DM	
2-Methylphenol	<	490	UG/KG	08/22/11	8270DM	
4-Methylphenol	<	490	UG/KG	08/22/11	8270DM	
2,4,5-Trichlorophenol	<	2500	UG/KG	08/22/11	8270DM	
4-Chloroaniline	<	490	UG/KG	08/22/11	8270DM	
2-Nitroaniline	<	2500	UG/KG	08/22/11	8270DM	
3-Nitroaniline	<	2500	UG/KG	08/22/11	8270DM	
4-Nitroaniline	<	2500	UG/KG	08/22/11	8270DM	
2-Methylnaphthalene	<	490	UG/KG	08/22/11	8270DM	
% Moisture - GC/MS Lab		33.	%	08/22/11	1005 M	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		43
2-FLUOROBIPHENYL		47

Sample Number: 508324
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 2015
Date Received: 8/19/2011
Date Completed: 08/26/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2, 4, 6-TRIBROMOPHENOL		64
NITROBENZENE-D5		43
P-TERPHENYL-D14		52
PHENOL-D5		51

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
(MJ) Hentricontane		300	µg/kg
Tetradecanoic acid, hexadecyl e		730	µg/kg
Campesterol		660	µg/kg
Sitosterol		1200	µg/kg
(MJ) Nonacosane		260	µg/kg
Cyclic octaatomic sulfur		1000	µg/kg
Sulfur		870	µg/kg
Hexadecanoic acid, hexadecyl es		500	µg/kg

Summary

Labs performing analysis on this Sample:

Metals GCMS Gen. Chem.

Sample Number: 508324
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 2015
Date Received: 8/19/2011
Date Completed: 08/26/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

SOURCE: COW CREEK

SAMPLERS COMMENTS:
SITE # 12

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas (MJ) The associated value is an estimated quantity at or below the adjusted lower limit of quantitation for this analysis and reported at the request of the customer.

The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentration. Compound names were truncated in the "tentatively identified" report table; their full names are:

Tetradecanoic acid, hexadecyl ester
Octadecanoic acid, hexadecyl ester

*

* ANALYST

Cassandra Kontas

Sample Number: 508324
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 2015
Date Received: 8/19/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Chloride (Sed.)		436	MG/KG	08/29/11	325.2M	
Sulfate (Sed.)		5360	MG/KG	08/29/11	375.4M	

Summary

Labs performing analysis on this Sample:

Metals GCMS Gen. Chem.

SOURCE: COW CREEK

SAMPLERS COMMENTS:

SITE # 12

ANALYST'S COMMENTS:

Susan Mensik

Susan Mensik

* ANALYST

State Environmental Laboratory

Sample Number: 508324
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected: 2015
Date Received: 8/19/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

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 Metals

EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Sediment	<	1.00	MG/KG	08/25/11	6010	3051
Arsenic, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Barium, Sediment		231	MG/KG	08/25/11	6010	3051
Beryllium, Sediment	<	2.00	MG/KG	08/25/11	6010	3051
Cadmium, Sediment	<	5.00	MG/KG	08/25/11	6010	3051
Chromium, Sediment		28.0	MG/KG	08/25/11	6010	3051
Copper, Sediment		10.1	MG/KG	08/25/11	6010	3051
Lead, Sediment		12.4	MG/KG	08/25/11	6010	3051
Nickel, Sediment		15.6	MG/KG	08/25/11	6010	3051
Silver, Sediment	<	5.00	MG/KG	08/25/11	6010	3051
Strontium, Sediment		49.4	MG/KG	08/25/11	6010	3051
Zinc, Sediment		27.5	MG/KG	08/25/11	6010	3051
Antimony, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Selenium, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Thallium, Sediment	<	10.0	MG/KG	08/25/11	6010	3051
Mercury, Sediment	<	0.25	MG/KG	09/02/11	7471	3051
% Solids		63.2	%	08/25/11	CLP 5.4	3051

Summary

Labs performing analysis on this Sample:

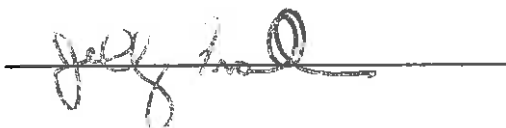
Metals GCMS Gen. Chem.

SOURCE: COW CREEK

SAMPLERS COMMENTS:

SITE # 12

ANALYST'S COMMENTS:

* ANALYST 

Sample Number: 508325
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/18/2011
 Time Collected:
 Date Received: 8/19/2011
 Date Completed: 08/26/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/26/2011

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 #OK00513

To: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		33.3				
Acenaphthylene	<	330	UG/KG	08/22/11	8270DM	
Acenaphthene	<	330	UG/KG	08/22/11	8270DM	
Anthracene	<	330	UG/KG	08/22/11	8270DM	
Benzo(b)fluoranthene	<	330	UG/KG	08/22/11	8270DM	
Benzo(k)fluoranthene	<	330	UG/KG	08/22/11	8270DM	
Benzo(a)pyrene	<	330	UG/KG	08/22/11	8270DM	
Bis(2-chloroethyl)ether	<	330	UG/KG	08/22/11	8270DM	
Bis(2-chloroethoxy)methane	<	330	UG/KG	08/22/11	8270DM	
Bis(2-chloroisopropyl)ethe	<	330	UG/KG	08/22/11	8270DM	
Butylbenzylphthalate	<	330	UG/KG	08/22/11	8270DM	
Chrysene	<	330	UG/KG	08/22/11	8270DM	
Diethylphthalate	<	330	UG/KG	08/22/11	8270DM	
Dimethylphthalate	<	330	UG/KG	08/22/11	8270DM	
Fluoranthene	<	330	UG/KG	08/22/11	8270DM	
Fluorene	<	330	UG/KG	08/22/11	8270DM	
Hexachlorocyclopentadiene	<	330	UG/KG	08/22/11	8270DM	
Hexachloroethane	<	330	UG/KG	08/22/11	8270DM	
Indeno(123cd)pyrene	<	330	UG/KG	08/22/11	8270DM	
Isophorone	<	330	UG/KG	08/22/11	8270DM	
Nitrosodipropylamine	<	330	UG/KG	08/22/11	8270DM	
Nitrosodiphenylamine	<	330	UG/KG	08/22/11	8270DM	
Naphthalene	<	330	UG/KG	08/22/11	8270DM	
Nitrobenzene	<	330	UG/KG	08/22/11	8270DM	
p-Chloro-m-cresol	<	330	UG/KG	08/22/11	8270DM	
Phenanthrene	<	330	UG/KG	08/22/11	8270DM	
Pyrene	<	330	UG/KG	08/22/11	8270DM	
Benzo(ghi)perylene	<	330	UG/KG	08/22/11	8270DM	
Benzo(a)anthracene	<	330	UG/KG	08/22/11	8270DM	
Dibenzo(ah)anthracene	<	330	UG/KG	08/22/11	8270DM	
2-Chloronaphthalene	<	330	UG/KG	08/22/11	8270DM	
2-Chlorophenol	<	330	UG/KG	08/22/11	8270DM	
2-Nitrophenol	<	330	UG/KG	08/22/11	8270DM	

Sample Number: 508325
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/18/2011
 Time Collected:
 Date Received: 8/19/2011
 Date Completed: 08/26/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	330	UG/KG	08/22/11	8270DM	
2,4-Dichlorophenol	<	330	UG/KG	08/22/11	8270DM	
2,4-Dimethylphenol	<	330	UG/KG	08/22/11	8270DM	
2,4-Dinitrotoluene	<	330	UG/KG	08/22/11	8270DM	
2,4-Dinitrophenol	<	1700	UG/KG	08/22/11	8270DM	
2,4,6-Trichlorophenol	<	1700	UG/KG	08/22/11	8270DM	
2,6-Dinitrotoluene	<	330	UG/KG	08/22/11	8270DM	
3,3'-Dichlorobenzidine	<	670	UG/KG	08/22/11	8270DM	
4-Bromophenylphenyl ether	<	330	UG/KG	08/22/11	8270DM	
4-Chlorophenyl phenylether	<	330	UG/KG	08/22/11	8270DM	
4-Nitrophenol	<	1700	UG/KG	08/22/11	8270DM	
4,6-Dinitro-o-cresol	<	1700	UG/KG	08/22/11	8270DM	
Phenol	<	330	UG/KG	08/22/11	8270DM	
Pentachlorophenol	<	1700	UG/KG	08/22/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	330	UG/KG	08/22/11	8270DM	
Di-n-butylphthalate	<	330	UG/KG	08/22/11	8270DM	
Hexachlorobenzene	<	330	UG/KG	08/22/11	8270DM	
Hexachlorobutadiene	<	330	UG/KG	08/22/11	8270DM	
Benzyl alcohol	<	330	UG/KG	08/22/11	8270DM	
Dibenzofuran	<	330	UG/KG	08/22/11	8270DM	
2-Methylphenol	<	330	UG/KG	08/22/11	8270DM	
4-Methylphenol	<	330	UG/KG	08/22/11	8270DM	
2,4,5-Trichlorophenol	<	1700	UG/KG	08/22/11	8270DM	
4-Chloroaniline	<	330	UG/KG	08/22/11	8270DM	
2-Nitroaniline	<	1700	UG/KG	08/22/11	8270DM	
3-Nitroaniline	<	1700	UG/KG	08/22/11	8270DM	
4-Nitroaniline	<	1700	UG/KG	08/22/11	8270DM	
2-Methylnaphthalene	<	330	UG/KG	08/22/11	8270DM	
% Moisture - GC/MS Lab		0.0	%	08/22/11	1005 M	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		94
2-FLUOROBIPHENYL		93

Sample Number: 508325
Project Code: CMP-FK
Agency Number:
Date Collected: 8/18/2011
Time Collected:
Date Received: 8/19/2011
Date Completed: 08/26/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/26/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2, 4, 6-TRIBROMOPHENOL		92
2-FLUOROPHENOL		87
NITROBENZENE-D5		92
P-TERPHENYL-D14		127

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
----------	---	-------	-------

NU

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: LAB BLANK

SAMPLERS COMMENTS:

LAB BLANK

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

* ANALYST

Cassandra Kontas

Sample Number: 508670
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1320
Date Received: 8/29/2011
Date Completed: 09/06/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/6/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS BETA		29.98	pCi/L	09/01/11	7110B	
GROSS BETA COUNTING ERROR		7.179	pCi/L	09/01/11	7110B	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

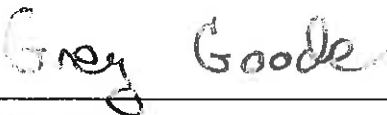
FIELD PH=8.50,DO=4.14MG/L,TEMP=33.31 SPEC CON= 7,982; SITE # 13

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST



Greg Goode
State Environmental Laboratory

Sample Number: 508670
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1320
Date Received: 8/29/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		7660	uMHO/CM	08/30/11	2510B	
pH, Liquid		8.16	STD UNIT	08/30/11	150.1	
Alkalinity, Total		50.0	MG/L	08/30/11	310.2	
Nitrogen, Ammonia	<	0.10	MG/L	09/02/11	350.1	
Nitrogen, Kjeldahl		1.78	MG/L	09/01/11	351.2	
Nitrite-Nitrate as N	<	0.05	MG/L	09/02/11	353.2	
Phosphorus, Total		0.164	MG/L	09/01/11	365.3	
Chloride		2130	MG/L	09/01/11	325.2	
Sulfate		1160	MG/L	09/01/11	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

FIELD PH=8.50,DO=4.14MG/L,TEMP=33.31 SPEC CON= 7,982; SITE # 13

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

*

* ANALYST

Susan Mensik

Susan Mensik

Sample Number: 508670
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1320
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab.		1.05				
Acenaphthylene	<	10	UG/L	09/02/11	8270DM	
Acenaphthene	<	10	UG/L	09/02/11	8270DM	
Anthracene	<	10	UG/L	09/02/11	8270DM	
Benzo(b)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(k)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)pyrene	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethyl)ether	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethoxy)methane	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroisopropyl)ether	<	10	UG/L	09/02/11	8270DM	
Butylbenzylphthalate	<	10	UG/L	09/02/11	8270DM	
Chrysene	<	10	UG/L	09/02/11	8270DM	
Diethylphthalate	<	10	UG/L	09/02/11	8270DM	
Dimethylphthalate	<	10	UG/L	09/02/11	8270DM	
Fluoranthene	<	10	UG/L	09/02/11	8270DM	
Fluorene	<	10	UG/L	09/02/11	8270DM	
Hexachlorocyclopentadiene	<	10	UG/L	09/02/11	8270DM	
Hexachloroethane in water	<	10	UG/L	09/02/11	8270DM	
Indeno(123cd)pyrene	<	10	UG/L	09/02/11	8270DM	
Isophorone	<	10	UG/L	09/02/11	8270DM	
Nitrosodipropylamine	<	10	UG/L	09/02/11	8270DM	
Nitrosodiphenylamine	<	10	UG/L	09/02/11	8270DM	
Nitrobenzene	<	10	UG/L	09/02/11	8270DM	
p-Chloro-m-cresol	<	10	UG/L	09/02/11	8270DM	
Phenanthrene	<	10	UG/L	09/02/11	8270DM	
Pyrene	<	10	UG/L	09/02/11	8270DM	
Benzo(ghi)perylene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)anthracene	<	10	UG/L	09/02/11	8270DM	
Dibenzo(ah)anthracene	<	10	UG/L	09/02/11	8270DM	
2-Chloronaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Chlorophenol	<	10	UG/L	09/02/11	8270DM	
2-Nitrophenol	<	10	UG/L	09/02/11	8270DM	
Di-n-octylphthalate	<	10	UG/L	09/02/11	8270DM	

Sample Number: 508670
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1320
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2,4-Dichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dimethylphenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrophenol	<	52	UG/L	09/02/11	8270DM	
2,4,6-Trichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,6-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
3,3'-Dichlorobenzidine	<	21	UG/L	09/02/11	8270DM	
4-Bromophenylphenyl ether	<	10	UG/L	09/02/11	8270DM	
4-Chlorophenyl phenylether	<	10	UG/L	09/02/11	8270DM	
4-Nitrophenol	<	52	UG/L	09/02/11	8270DM	
4,6-Dinitro-o-cresol	<	52	UG/L	09/02/11	8270DM	
Phenol	<	10	UG/L	09/02/11	8270DM	
Naphthalene	<	10	UG/L	09/02/11	8270DM	
Pentachlorophenol	<	52	UG/L	09/02/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	10	UG/L	09/02/11	8270DM	
Di-n-butylphthalate	<	10	UG/L	09/02/11	8270DM	
Hexachlorobenzene	<	10	UG/L	09/02/11	8270DM	
Hexachlorobutadiene	<	10	UG/L	09/02/11	8270DM	
Dibenzofuran	<	10	UG/L	09/02/11	8270DM	
2-Methylnaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Methylphenol	<	10	UG/L	09/02/11	8270DM	
4-Methylphenol	<	10	UG/L	09/02/11	8270DM	
2,4,5-Trichlorophenol	<	52	UG/L	09/02/11	8270DM	
4-Chloroaniline	<	10	UG/L	09/02/11	8270DM	
2-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
3-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
4-Nitroaniline	<	52	UG/L	09/02/11	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
NITROBENZENE-D5		70
PHENOL-D5		29
P-TERPHENYL-D14		30
2,4,6-TRIBROMOPHENOL		62

Sample Number: 508670
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1320
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		34
2-FLUOROBIPHENYL		62

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NU			

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

FIELD PH=8.50,DO=4.14MG/L,TEMP=33.31 SPEC CON= 7,982; SITE # 13

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

The surrogate recovery for terphenyl-d14 was below in-house quality control limits.

*

* ANALYST

Cassandra Kontas

Sample Number: 508670
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1320
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
FWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Total		1210	MG/L	09/01/11	200.7	
Arsenic, Total	<	10.0	UG/L	09/01/11	200.7	
Barium, Total		196	UG/L	09/01/11	200.7	
Beryllium, Total	<	2.00	UG/L	09/01/11	200.7	
Cadmium, Total	<	5.00	UG/L	09/01/11	200.7	
Chromium, Total	<	10.0	UG/L	09/01/11	200.7	
Copper, Total	<	5.00	UG/L	09/01/11	200.7	
Lead, Total	<	10.0	UG/L	09/01/11	200.7	
Thallium, Total	<	10.0	UG/L	09/01/11	200.7	
Nickel, Total	<	10.0	UG/L	09/01/11	200.7	
Silver, Total	<	5.00	UG/L	09/01/11	200.7	
Strontium, Total		4750	UG/L	09/01/11	200.7	
Zinc, Total	<	5.00	UG/L	09/01/11	200.7	
Antimony, Total	<	10.0	UG/L	09/01/11	200.7	
Selenium, Total	<	10.0	UG/L	09/01/11	200.7	
Uranium, Total		6.50	UG/L	09/08/11	200.8	
Mercury, Total	<	0.05	UG/L	09/15/11	7470	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

Sample Number: 508670
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1320
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

SOURCE: RED RIVER

SAMPLERS COMMENTS:

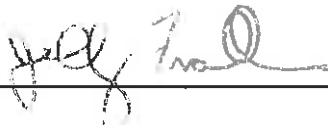
FIELD PH=8.50, DO=4.14MG/L, TEMP=33.31 SPEC CON= 7,982; SITE # 13

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* * ANALYST



Sample Number: 508671
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1349
Date Received: 8/29/2011
Date Completed: 09/06/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/6/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS BETA		23.68	pCi/L	09/01/11	7110B	
GROSS BETA COUNTING ERROR		6.893	pCi/L	09/01/11	7110B	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

OSCAR BOAT RAMP; SITE #14; PH=8.72; DO=4.74MG/L; SPEC CON=8,040US; TEMP= 35.53

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 508671
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1349
Date Received: 8/29/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		7680	uMHO/CM	08/30/11	2510B	
pH, Liquid		8.39	STD UNIT	08/30/11	150.1	
Alkalinity, Total		40.2	MG/L	08/30/11	310.2	
Nitrogen, Ammonia	<	0.10	MG/L	09/02/11	350.1	
Nitrogen, Kjeldahl		1.86	MG/L	09/01/11	351.2	
Nitrite-Nitrate as N	<	0.05	MG/L	09/02/11	353.2	
Phosphorus, Total		0.154	MG/L	09/01/11	365.3	
Chloride		2130	MG/L	09/01/11	325.2	
Sulfate		1170	MG/L	09/01/11	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

OSCAR BOAT RAMP; SITE #14; PH=8.72; DO=4.74MG/L; SPEC CON=8,040US; TEMP= 35.53

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory

Sample Number: 508671
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1349
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab.		1.07				
Acenaphthylene	<	11	UG/L	09/02/11	8270DM	
Acenaphthene	<	11	UG/L	09/02/11	8270DM	
Anthracene	<	11	UG/L	09/02/11	8270DM	
Benzo(b)fluoranthene	<	11	UG/L	09/02/11	8270DM	
Benzo(k)fluoranthene	<	11	UG/L	09/02/11	8270DM	
Benzo(a)pyrene	<	11	UG/L	09/02/11	8270DM	
Bis(2-chloroethyl)ether	<	11	UG/L	09/02/11	8270DM	
Bis(2-chloroethoxy)methane	<	11	UG/L	09/02/11	8270DM	
Bis(2-chloroisopropyl)ether	<	11	UG/L	09/02/11	8270DM	
Butylbenzylphthalate	<	11	UG/L	09/02/11	8270DM	
Chrysene	<	11	UG/L	09/02/11	8270DM	
Diethylphthalate	<	11	UG/L	09/02/11	8270DM	
Dimethylphthalate	<	11	UG/L	09/02/11	8270DM	
Fluoranthene	<	11	UG/L	09/02/11	8270DM	
Fluorene	<	11	UG/L	09/02/11	8270DM	
Hexachlorocyclopentadiene	<	11	UG/L	09/02/11	8270DM	
Hexachloroethane in water	<	11	UG/L	09/02/11	8270DM	
Indeno(123cd)pyrene	<	11	UG/L	09/02/11	8270DM	
Isophorone	<	11	UG/L	09/02/11	8270DM	
Nitrosodipropylamine	<	11	UG/L	09/02/11	8270DM	
Nitrosodiphenylamine	<	11	UG/L	09/02/11	8270DM	
Nitrobenzene	<	11	UG/L	09/02/11	8270DM	
p-Chloro-m-cresol	<	11	UG/L	09/02/11	8270DM	
Phenanthrene	<	11	UG/L	09/02/11	8270DM	
Pyrene	<	11	UG/L	09/02/11	8270DM	
Benzo(ghi)perylene	<	11	UG/L	09/02/11	8270DM	
Benzo(a)anthracene	<	11	UG/L	09/02/11	8270DM	
Dibenzo(ah)anthracene	<	11	UG/L	09/02/11	8270DM	
2-Chloronaphthalene	<	11	UG/L	09/02/11	8270DM	
2-Chlorophenol	<	11	UG/L	09/02/11	8270DM	
2-Nitrophenol	<	11	UG/L	09/02/11	8270DM	
Di-n-octylphthalate	<	11	UG/L	09/02/11	8270DM	

Sample Number: 508671
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1349
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2,4-Dichlorophenol	<	11	UG/L	09/02/11	8270DM	
2,4-Dimethylphenol	<	11	UG/L	09/02/11	8270DM	
2,4-Dinitrotoluene	<	11	UG/L	09/02/11	8270DM	
2,4-Dinitrophenol	<	54	UG/L	09/02/11	8270DM	
2,4,6-Trichlorophenol	<	11	UG/L	09/02/11	8270DM	
2,6-Dinitrotoluene	<	11	UG/L	09/02/11	8270DM	
3,3'-Dichlorobenzidine	MI <	21	UG/L	09/02/11	8270DM	
4-Bromophenylphenyl ether	<	11	UG/L	09/02/11	8270DM	
4-Chlorophenyl phenylether	<	11	UG/L	09/02/11	8270DM	
4-Nitrophenol	<	54	UG/L	09/02/11	8270DM	
4,6-Dinitro-o-cresol	<	54	UG/L	09/02/11	8270DM	
Phenol	<	11	UG/L	09/02/11	8270DM	
Naphthalene	<	11	UG/L	09/02/11	8270DM	
Pentachlorophenol	<	54	UG/L	09/02/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	11	UG/L	09/02/11	8270DM	
Di-n-butylphthalate	<	11	UG/L	09/02/11	8270DM	
Hexachlorobenzene	<	11	UG/L	09/02/11	8270DM	
Hexachlorobutadiene	<	11	UG/L	09/02/11	8270DM	
Dibenzofuran	<	11	UG/L	09/02/11	8270DM	
2-Methylnaphthalene	<	11	UG/L	09/02/11	8270DM	
2-Methylphenol	<	11	UG/L	09/02/11	8270DM	
4-Methylphenol	<	11	UG/L	09/02/11	8270DM	
2,4,5-Trichlorophenol	<	54	UG/L	09/02/11	8270DM	
4-Chloroaniline	<	11	UG/L	09/02/11	8270DM	
2-Nitroaniline	<	54	UG/L	09/02/11	8270DM	
3-Nitroaniline	<	54	UG/L	09/02/11	8270DM	
4-Nitroaniline	<	54	UG/L	09/02/11	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		31
2-FLUOROBIPHENYL		76
NITROBENZENE-D5		81
2-FLUOROPHENOL		39

Sample Number: 508671
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1349
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/13/2011

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 #OK30013

To: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2,4,6-TRIBROMOPHENOL		72
P-TERPHENYL-D14 (MI)		39

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NU			

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

OSCAR BOAT RAMP; SITE #14; PH=8.72; DO=4.74MG/L; SPEC CON=8,040US; TEMP= 35.53

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

(MI) Matrix interference

The surrogate recovery for terphenyl-d14 was below in-house quality control limits.

* ANALYST

Cassandra Kontas

Sample Number: 508671
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1349
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Total		1220	MG/L	09/01/11	200.7	
Arsenic, Total	<	10.0	UG/L	09/01/11	200.7	
Barium, Total		149	UG/L	09/01/11	200.7	
Beryllium, Total	<	2.00	UG/L	09/01/11	200.7	
Cadmium, Total	<	5.00	UG/L	09/01/11	200.7	
Chromium, Total	<	5.00	UG/L	09/01/11	200.7	
Copper, Total	<	5.00	UG/L	09/01/11	200.7	
Lead, Total	<	10.0	UG/L	09/01/11	200.7	
Thallium, Total	<	10.0	UG/L	09/01/11	200.7	
Nickel, Total	<	10.0	UG/L	09/01/11	200.7	
Silver, Total	<	5.00	UG/L	09/01/11	200.7	
Strontium, Total		4690	UG/L	09/01/11	200.7	
Zinc, Total	<	5.00	UG/L	09/01/11	200.7	
Antimony, Total	<	10.0	UG/L	09/01/11	200.7	
Selenium, Total	<	10.0	UG/L	09/01/11	200.7	
Uranium, Total		5.20	UG/L	09/08/11	200.8	
Mercury, Total	<	0.05	UG/L	09/15/11	7470	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

Sample Number: 508671
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1349
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
FWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

SOURCE: RED RIVER

SAMPLERS COMMENTS:

OSCAR BOAT RAMP; SITE #14; PH=8.72; DO=4.74MG/L; SPEC CON=8,040US; TEMP= 35.53

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST



Sample Number: 508672
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 09/06/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/6/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS BETA		27.75	pCi/L	09/01/11	7110B	
GROSS BETA COUNTING ERROR		7.486	pCi/L	09/01/11	7110B	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER KETCHUM BLUFF; SITE # 15; PH=8.50, DO=4.71MG/L; TEMP=32.12; SPEC CON=7,987US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST

Greg Goode
Greg Goode
State Environmental Laboratory

Sample Number: 508672
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

**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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		7580	uMHO/CM	08/30/11	2510B	
pH, Liquid		8.04	STD UNIT	08/30/11	150.1	
Alkalinity, Total		49.3	MG/L	08/30/11	310.2	
Nitrogen, Ammonia	<	0.10	MG/L	09/02/11	350.1	
Nitrogen, Kjeldahl		2.00	MG/L	09/01/11	351.2	
Nitrite-Nitrate as N	<	0.05	MG/L	09/02/11	353.2	
Phosphorus, Total		0.162	MG/L	09/01/11	365.3	
Chloride		2130	MG/L	09/01/11	325.2	
Sulfate		1110	MG/L	09/01/11	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER KETCHUM BLUFF; SITE # 15; PH=8.50, DO=4.71MG/L; TEMP=32.12; SPEC CON=7,987US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

*

* ANALYST

Susan Mensik

Susan Mensik
State Environmental Laboratory

Sample Number: 508672
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1432
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.04				
Acenaphthylene	<	10	UG/L	09/02/11	8270DM	
Acenaphthene	<	10	UG/L	09/02/11	8270DM	
Anthracene	<	10	UG/L	09/02/11	8270DM	
Benzo(b)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(k)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)pyrene	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethyl)ether	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethoxy)methane	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroisopropyl)ethe	<	10	UG/L	09/02/11	8270DM	
Butylbenzylphthalate	<	10	UG/L	09/02/11	8270DM	
Chrysene	<	10	UG/L	09/02/11	8270DM	
Diethylphthalate	<	10	UG/L	09/02/11	8270DM	
Dimethylphthalate	<	10	UG/L	09/02/11	8270DM	
Fluoranthene	<	10	UG/L	09/02/11	8270DM	
Fluorene	<	10	UG/L	09/02/11	8270DM	
Hexachlorocyclopentadiene	<	10	UG/L	09/02/11	8270DM	
Hexachloroethane in water	<	10	UG/L	09/02/11	8270DM	
Indeno(123cd)pyrene	<	10	UG/L	09/02/11	8270DM	
Isophorone	<	10	UG/L	09/02/11	8270DM	
Nitrosodipropylamine	<	10	UG/L	09/02/11	8270DM	
Nitrosodiphenylamine	<	10	UG/L	09/02/11	8270DM	
Nitrobenzene	<	10	UG/L	09/02/11	8270DM	
p-Chloro-m-cresol	<	10	UG/L	09/02/11	8270DM	
Phenanthrene	<	10	UG/L	09/02/11	8270DM	
Pyrene	<	10	UG/L	09/02/11	8270DM	
Benzo(ghi)perylene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)anthracene	<	10	UG/L	09/02/11	8270DM	
Dibenzo(ah)anthracene	<	10	UG/L	09/02/11	8270DM	
2-Chloronaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Chlorophenol	<	10	UG/L	09/02/11	8270DM	
2-Nitrophenol	<	10	UG/L	09/02/11	8270DM	
Di-n-octylphthalate	<	10	UG/L	09/02/11	8270DM	

Sample Number: 508672
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1432
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2,4-Dichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dimethylphenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrophenol	<	52	UG/L	09/02/11	8270DM	
2,4,6-Trichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,6-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
3,3'-Dichlorobenzidine	<	21	UG/L	09/02/11	8270DM	
4-Bromophenylphenyl ether	<	10	UG/L	09/02/11	8270DM	
4-Chlorophenyl phenylether	<	10	UG/L	09/02/11	8270DM	
4-Nitrophenol	<	52	UG/L	09/02/11	8270DM	
4,6-Dinitro-o-cresol	<	52	UG/L	09/02/11	8270DM	
Phenol	<	10	UG/L	09/02/11	8270DM	
Naphthalene	<	10	UG/L	09/02/11	8270DM	
Pentachlorophenol	<	52	UG/L	09/02/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	10	UG/L	09/02/11	8270DM	
Di-n-butylphthalate	<	10	UG/L	09/02/11	8270DM	
Hexachlorobenzene	<	10	UG/L	09/02/11	8270DM	
Hexachlorobutadiene	<	10	UG/L	09/02/11	8270DM	
Dibenzofuran	<	10	UG/L	09/02/11	8270DM	
2-Methylnaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Methylphenol	<	10	UG/L	09/02/11	8270DM	
4-Methylphenol	<	10	UG/L	09/02/11	8270DM	
2,4,5-Trichlorophenol	<	52	UG/L	09/02/11	8270DM	
4-Chloroaniline	<	10	UG/L	09/02/11	8270DM	
2-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
3-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
4-Nitroaniline	<	52	UG/L	09/02/11	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
P-TERPHENYL-D14		44
2-FLUOROBIPHENYL		76
NITROBENZENE-D5		80
2,4,6-TRIBROMOPHENOL		75

Sample Number: 508672
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/13/2011

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 #OK90013

To: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		42
PHENOL-D5		33

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
1-Pentene, 3,3-dimethyl-		11	µg/L

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER KETCHUM BLUFF; SITE # 15; PH=8.50, DO=4.71MG/L; TEMP=32.12; SPEC CON=7,987US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentration. The surrogate recovery for terphenyl-d14 was below in-house quality control limits.

*

* ANALYST

Cassandra Kontas

Sample Number: 508672
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OKC0013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Total		1200	MG/L	09/01/11	200.7	
Arsenic, Total	<	10.0	UG/L	09/01/11	200.7	
Barium, Total		162	UG/L	09/01/11	200.7	
Beryllium, Total	<	2.00	UG/L	09/01/11	200.7	
Cadmium, Total	<	5.00	UG/L	09/01/11	200.7	
Chromium, Total	<	5.00	UG/L	09/01/11	200.7	
Copper, Total	<	5.00	UG/L	09/01/11	200.7	
Lead, Total	<	10.0	UG/L	09/01/11	200.7	
Thallium, Total	<	10.0	UG/L	09/01/11	200.7	
Nickel, Total	<	10.0	UG/L	09/01/11	200.7	
Silver, Total	<	5.00	UG/L	09/01/11	200.7	
Strontium, Total		4680	UG/L	09/01/11	200.7	
Zinc, Total	<	5.00	UG/L	09/01/11	200.7	
Antimony, Total	<	10.0	UG/L	09/01/11	200.7	
Selenium, Total	<	10.0	UG/L	09/01/11	200.7	
Uranium, Total		6.40	UG/L	09/08/11	200.8	
Mercury, Total	<	0.05	UG/L	09/15/11	7470	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

Sample Number: 508672
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER KETCHUM BLUFF; SITE # 15; PH=8.50, DO=4.71MG/L; TEMP=32.12; SPEC CON=7,987US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST



Sample Number: 508673
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1610
Date Received: 8/29/2011
Date Completed: 09/06/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/6/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS BETA	<	21.67	pCi/L	09/01/11	7110B	
GROSS BETA COUNTING ERROR		6.745	pCi/L	09/01/11	7110B	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER UPSTREAM OF KETCHUM BLUFF; SITE # 16; PH=8.82, DO=7.93; TEMP=36.96

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST


Greg Goode
State Environmental Laboratory

Sample Number: 508673
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1610
Date Received: 8/29/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		7660	uMHO/CM	08/30/11	2510B	
pH, Liquid		8.33	STD UNIT	08/30/11	150.1	
Alkalinity, Total		35.6	MG/L	08/30/11	310.2	
Nitrogen, Ammonia		0.15	MG/L	09/02/11	350.1	
Nitrogen, Kjeldahl		9.17	MG/L	09/01/11	351.2	
Nitrite-Nitrate as N	<	0.05	MG/L	09/02/11	353.2	
Phosphorus, Total		0.395	MG/L	09/01/11	365.3	
Chloride		2170	MG/L	09/01/11	325.2	
Sulfate		1140	MG/L	09/01/11	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER UPSTREAM OF KETCHUM BLUFF; SITE # 16; PH=8.82, DO=7.93; TEMP=36.96

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

*

* ANALYST

Susan Mensik

Susan Mensik

ANALYST'S SIGNATURE

Sample Number: 508673
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1610
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.05				
Acenaphthylene	<	10	UG/L	09/02/11	8270DM	
Acenaphthene	<	10	UG/L	09/02/11	8270DM	
Anthracene	<	10	UG/L	09/02/11	8270DM	
Benzo(b)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(k)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)pyrene	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethyl)ether	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethoxy)methane	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroisopropyl)ether	<	10	UG/L	09/02/11	8270DM	
Butylbenzylphthalate	<	10	UG/L	09/02/11	8270DM	
Chrysene	<	10	UG/L	09/02/11	8270DM	
Diethylphthalate	<	10	UG/L	09/02/11	8270DM	
Dimethylphthalate	<	10	UG/L	09/02/11	8270DM	
Fluoranthene	<	10	UG/L	09/02/11	8270DM	
Fluorene	<	10	UG/L	09/02/11	8270DM	
Hexachlorocyclopentadiene	<	10	UG/L	09/02/11	8270DM	
Hexachloroethane in water	<	10	UG/L	09/02/11	8270DM	
Indeno(123cd)pyrene	<	10	UG/L	09/02/11	8270DM	
Isophorone	<	10	UG/L	09/02/11	8270DM	
Nitrosodipropylamine	<	10	UG/L	09/02/11	8270DM	
Nitrosodiphenylamine	<	10	UG/L	09/02/11	8270DM	
Nitrobenzene	<	10	UG/L	09/02/11	8270DM	
p-Chloro-m-cresol	<	10	UG/L	09/02/11	8270DM	
Phenanthrene	<	10	UG/L	09/02/11	8270DM	
Pyrene	<	10	UG/L	09/02/11	8270DM	
Benzo(ghi)perylene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)anthracene	<	10	UG/L	09/02/11	8270DM	
Dibenzo(ah)anthracene	<	10	UG/L	09/02/11	8270DM	
2-Chloronaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Chlorophenol	<	10	UG/L	09/02/11	8270DM	
2-Nitrophenol	<	10	UG/L	09/02/11	8270DM	
Di-n-octylphthalate	<	10	UG/L	09/02/11	8270DM	

Sample Number: 508673
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1610
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2,4-Dichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dimethylphenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrophenol	<	52	UG/L	09/02/11	8270DM	
2,4,6-Trichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,6-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
3,3'-Dichlorobenzidine	<	21	UG/L	09/02/11	8270DM	
4-Bromophenylphenyl ether	<	10	UG/L	09/02/11	8270DM	
4-Chlorophenyl phenylether	<	10	UG/L	09/02/11	8270DM	
4-Nitrophenol	<	52	UG/L	09/02/11	8270DM	
4,6-Dinitro-o-cresol	<	52	UG/L	09/02/11	8270DM	
Phenol	<	10	UG/L	09/02/11	8270DM	
Naphthalene	<	10	UG/L	09/02/11	8270DM	
Pentachlorophenol	<	52	UG/L	09/02/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	10	UG/L	09/02/11	8270DM	
Di-n-butylphthalate	<	10	UG/L	09/02/11	8270DM	
Hexachlorobenzene	<	10	UG/L	09/02/11	8270DM	
Hexachlorobutadiene	<	10	UG/L	09/02/11	8270DM	
Dibenzofuran	<	10	UG/L	09/02/11	8270DM	
2-Methylnaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Methylphenol	<	10	UG/L	09/02/11	8270DM	
4-Methylphenol	<	10	UG/L	09/02/11	8270DM	
2,4,5-Trichlorophenol	<	52	UG/L	09/02/11	8270DM	
4-Chloroaniline	<	10	UG/L	09/02/11	8270DM	
2-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
3-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
4-Nitroaniline	<	52	UG/L	09/02/11	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2,4,6-TRIBROMOPHENOL		61
2-FLUOROPHENOL		30
NITROBENZENE-D5		72
PHENOL-D5		26

Sample Number: 508673
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1610
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		70
P-TERPHENYL-D14		41

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NU			

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER UPSTREAM OF KETCHUM BLUFF; SITE # 16; PH=8.82; DO=7.93; TEMP=36.96

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

The surrogate recovery for terphenyl-d14 was below in-house quality control limits.

* ANALYST

Cassandra Kontas

Sample Number: 508673
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1610
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Total		1210	MG/L	09/01/11	200.7	
Arsenic, Total	<	10.0	UG/L	09/01/11	200.7	
Barium, Total		141	UG/L	09/01/11	200.7	
Beryllium, Total	<	2.00	UG/L	09/01/11	200.7	
Cadmium, Total	<	5.00	UG/L	09/01/11	200.7	
Chromium, Total	<	5.00	UG/L	09/01/11	200.7	
Copper, Total	<	5.00	UG/L	09/01/11	200.7	
Lead, Total	<	10.0	UG/L	09/01/11	200.7	
Thallium, Total	<	10.0	UG/L	09/01/11	200.7	
Nickel, Total	<	10.0	UG/L	09/01/11	200.7	
Silver, Total	<	5.00	UG/L	09/01/11	200.7	
Strontium, Total		4700	UG/L	09/01/11	200.7	
Zinc, Total	<	5.00	UG/L	09/01/11	200.7	
Antimony, Total	<	10.0	UG/L	09/01/11	200.7	
Selenium, Total	<	10.0	UG/L	09/01/11	200.7	
Uranium, Total		6.80	UG/L	08/31/11	200.8	
Mercury, Total	<	0.05	UG/L	09/15/11	7470	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

Sample Number: 508673
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1610
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

SOURCE: RED RIVER

SAMPLERS COMMENTS:

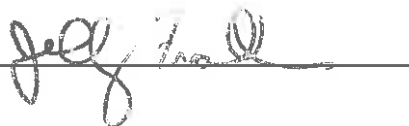
RED RIVER UPSTREAM OF KETCHUM BLUFF; SITE # 16; PH=8.82, DO=7.93; TEMP=36.96

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* * ANALYST



Sample Number: 508674
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected:
Date Received: 8/29/2011
Date Completed: 09/06/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/6/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
GROSS BETA		37.59	pCi/L	09/01/11	7110B	
GROSS BETA COUNTING ERROR		9.779	pCi/L	09/01/11	7110B	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

SITE # 17; PH=8.75,DO=5.02MG/L;TEMP=36.56;SPEC CON 10,641US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 508674
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected:
Date Received: 8/29/2011
Date Completed: 09/02/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/2/2011

**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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Specific Conductance		10200	uMHO/CM	08/30/11	2510B	
pH, Liquid		7.78	STD UNIT	08/30/11	150.1	
Alkalinity, Total		72.8	MG/L	08/30/11	310.2	
Nitrogen, Ammonia	<	0.10	MG/L	09/02/11	350.1	
Nitrogen, Kjeldahl		1.88	MG/L	09/01/11	351.2	
Nitrite-Nitrate as N	<	0.05	MG/L	09/02/11	353.2	
Phosphorus, Total		0.15	MG/L	09/01/11	365.3	
Chloride		3260	MG/L	09/01/11	325.2	
Sulfate		580	MG/L	09/01/11	375.4	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

SITE # 17; PH=8.75,DO=5.02MG/L;TEMP=36.56;SPEC CON 10,641US

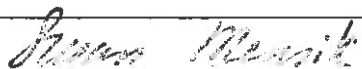
SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST



State Environmental Laboratory

Sample Number: 508674
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected:
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		1.05				
Acenaphthylene	<	10	UG/L	09/02/11	8270DM	
Acenaphthene	<	10	UG/L	09/02/11	8270DM	
Anthracene	<	10	UG/L	09/02/11	8270DM	
Benzo (b) fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo (k) fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo (a) pyrene	<	10	UG/L	09/02/11	8270DM	
Bis (2-chloroethyl) ether	<	10	UG/L	09/02/11	8270DM	
Bis (2-chloroethoxy) methane	<	10	UG/L	09/02/11	8270DM	
Bis (2-chloroisopropyl) ether	<	10	UG/L	09/02/11	8270DM	
Butylbenzylphthalate	<	10	UG/L	09/02/11	8270DM	
Chrysene	<	10	UG/L	09/02/11	8270DM	
Diethylphthalate	<	10	UG/L	09/02/11	8270DM	
Dimethylphthalate	<	10	UG/L	09/02/11	8270DM	
Fluoranthene	<	10	UG/L	09/02/11	8270DM	
Fluorene	<	10	UG/L	09/02/11	8270DM	
Hexachlorocyclopentadiene	<	10	UG/L	09/02/11	8270DM	
Hexachloroethane in water	<	10	UG/L	09/02/11	8270DM	
Indeno (123cd) pyrene	<	10	UG/L	09/02/11	8270DM	
Isophorone	<	10	UG/L	09/02/11	8270DM	
Nitrosodipropylamine	<	10	UG/L	09/02/11	8270DM	
Nitrosodiphenylamine	<	10	UG/L	09/02/11	8270DM	
Nitrobenzene	<	10	UG/L	09/02/11	8270DM	
p-Chloro-m-cresol	<	10	UG/L	09/02/11	8270DM	
Phenanthrene	<	10	UG/L	09/02/11	8270DM	
Pyrene	<	10	UG/L	09/02/11	8270DM	
Benzo (ghi) perylene	<	10	UG/L	09/02/11	8270DM	
Benzo (a) anthracene	<	10	UG/L	09/02/11	8270DM	
Dibenzo (ah) anthracene	<	10	UG/L	09/02/11	8270DM	
2-Chloronaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Chlorophenol	<	10	UG/L	09/02/11	8270DM	
2-Nitrophenol	<	10	UG/L	09/02/11	8270DM	
Di-n-octylphthalate	<	10	UG/L	09/02/11	8270DM	

Sample Number: 508674
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected:
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2,4-Dichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dimethylphenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrophenol	<	52	UG/L	09/02/11	8270DM	
2,4,6-Trichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,6-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
3,3'-Dichlorobenzidine	<	21	UG/L	09/02/11	8270DM	
4-Bromophenylphenyl ether	<	10	UG/L	09/02/11	8270DM	
4-Chlorophenyl phenylether	<	10	UG/L	09/02/11	8270DM	
4-Nitrophenol	<	52	UG/L	09/02/11	8270DM	
4,6-Dinitro-o-cresol	<	52	UG/L	09/02/11	8270DM	
Phenol	<	10	UG/L	09/02/11	8270DM	
Naphthalene	<	10	UG/L	09/02/11	8270DM	
Pentachlorophenol	<	52	UG/L	09/02/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	10	UG/L	09/02/11	8270DM	
Di-n-butylphthalate	<	10	UG/L	09/02/11	8270DM	
Hexachlorobenzene	<	10	UG/L	09/02/11	8270DM	
Hexachlorobutadiene	<	10	UG/L	09/02/11	8270DM	
Dibenzofuran	<	10	UG/L	09/02/11	8270DM	
2-Methylnaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Methylphenol	<	10	UG/L	09/02/11	8270DM	
4-Methylphenol	<	10	UG/L	09/02/11	8270DM	
2,4,5-Trichlorophenol	<	52	UG/L	09/02/11	8270DM	
4-Chloroaniline	<	10	UG/L	09/02/11	8270DM	
2-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
3-Nitroaniline	<	52	UG/L	09/02/11	8270DM	
4-Nitroaniline	<	52	UG/L	09/02/11	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		19
P-TERPHENYL-D14		22
NITROBENZENE-D5		42
2-FLUOROPHENOL		21

Sample Number: 508674
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected:
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		43
2,4,6-TRIBROMOPHENOL		68

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
2-Butene, 2,3-dimethyl-		11	µg/L
Ergosta-5,22-dien-3-ol, (3.beta		11	µg/L
n-Hexadecanoic acid		50	µg/L

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

SITE # 17; PH=8.75,DO=5.02MG/L;TEMP=36.56;SPEC CON 10,641US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentration. The surrogate recovery for terphenyl-d14 was below in-house quality control limits. A compound name was truncated in the "tentatively identified" report table; its full name is: Ergosta-5,22-dien-3-ol, (3.beta, 22E, 24S)-

* ANALYST

Cassandra Kontas

Sample Number: 508674
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected:
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Total		1660	MG/L	09/01/11	200.7	
Arsenic, Total		14.2	UG/L	09/01/11	200.7	
Barium, Total		569	UG/L	09/01/11	200.7	
Beryllium, Total	<	2.00	UG/L	09/01/11	200.7	
Cadmium, Total	<	5.00	UG/L	09/01/11	200.7	
Chromium, Total	<	5.00	UG/L	09/01/11	200.7	
Copper, Total	<	5.00	UG/L	09/01/11	200.7	
Lead, Total	<	10.0	UG/L	09/01/11	200.7	
Thallium, Total		10.4	UG/L	09/01/11	200.7	
Nickel, Total	<	10.0	UG/L	09/01/11	200.7	
Silver, Total	<	5.00	UG/L	09/01/11	200.7	
Strontium, Total		4870	UG/L	09/01/11	200.7	
Zinc, Total	<	5.00	UG/L	09/01/11	200.7	
Antimony, Total	<	10.0	UG/L	09/01/11	200.7	
Selenium, Total	<	10.0	UG/L	09/01/11	200.7	
Uranium, Total		1.20	UG/L	08/31/11	200.8	
Mercury, Total	<	0.05	UG/L	09/15/11	7470	

Summary

Labs performing analysis on this Sample:

Rad. Chem. Metals GCMS Gen. Chem.

Sample Number: 508674
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected:
Date Received: 8/29/2011
Date Completed: 09/16/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/16/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

SOURCE: RED CREEK

SAMPLERS COMMENTS:

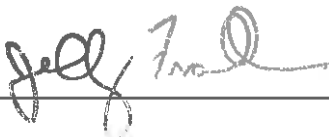
SITE # 17; PH=8.75,DO=5.02MG/L;TEMP=36.56;SPEC CON 10,641US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* ANALYST



Sample Number: 508675
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractabl		1.00				
Acenaphthylene	<	10	UG/L	09/02/11	8270DM	
Acenaphthene	<	10	UG/L	09/02/11	8270DM	
Anthracene	<	10	UG/L	09/02/11	8270DM	
Benzo(b)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(k)fluoranthene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)pyrene	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethyl)ether	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroethoxy)methane	<	10	UG/L	09/02/11	8270DM	
Bis(2-chloroisopropyl)ethe	<	10	UG/L	09/02/11	8270DM	
Butylbenzylphthalate	<	10	UG/L	09/02/11	8270DM	
Chrysene	<	10	UG/L	09/02/11	8270DM	
Diethylphthalate	<	10	UG/L	09/02/11	8270DM	
Dimethylphthalate	<	10	UG/L	09/02/11	8270DM	
Fluoranthene	<	10	UG/L	09/02/11	8270DM	
Fluorene	<	10	UG/L	09/02/11	8270DM	
Hexachlorocyclopentadiene	<	10	UG/L	09/02/11	8270DM	
Hexachloroethane in water	<	10	UG/L	09/02/11	8270DM	
Indeno(123cd)pyrene	<	10	UG/L	09/02/11	8270DM	
Isophorone	<	10	UG/L	09/02/11	8270DM	
Nitrosodipropylamine	<	10	UG/L	09/02/11	8270DM	
Nitrosodiphenylamine	<	10	UG/L	09/02/11	8270DM	
Nitrobenzene	<	10	UG/L	09/02/11	8270DM	
p-Chloro-m-cresol	<	10	UG/L	09/02/11	8270DM	
Phenanthrene	<	10	UG/L	09/02/11	8270DM	
Pyrene	<	10	UG/L	09/02/11	8270DM	
Benzo(ghi)perylene	<	10	UG/L	09/02/11	8270DM	
Benzo(a)anthracene	<	10	UG/L	09/02/11	8270DM	
Dibenzo(ah)anthracene	<	10	UG/L	09/02/11	8270DM	
2-Chloronaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Chlorophenol	<	10	UG/L	09/02/11	8270DM	
2-Nitrophenol	<	10	UG/L	09/02/11	8270DM	
Di-n-octylphthalate	<	10	UG/L	09/02/11	8270DM	

Sample Number: 508675
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
2,4-Dichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dimethylphenol	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
2,4-Dinitrophenol	<	50	UG/L	09/02/11	8270DM	
2,4,6-Trichlorophenol	<	10	UG/L	09/02/11	8270DM	
2,6-Dinitrotoluene	<	10	UG/L	09/02/11	8270DM	
3,3'-Dichlorobenzidine	<	20	UG/L	09/02/11	8270DM	
4-Bromophenylphenyl ether	<	10	UG/L	09/02/11	8270DM	
4-Chlorophenyl phenylether	<	10	UG/L	09/02/11	8270DM	
4-Nitrophenol	<	50	UG/L	09/02/11	8270DM	
4,6-Dinitro-o-cresol	<	50	UG/L	09/02/11	8270DM	
Phenol	<	10	UG/L	09/02/11	8270DM	
Naphthalene	<	10	UG/L	09/02/11	8270DM	
Pentachlorophenol	<	50	UG/L	09/02/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	10	UG/L	09/02/11	8270DM	
Di-n-butylphthalate	<	10	UG/L	09/02/11	8270DM	
Hexachlorobenzene	<	10	UG/L	09/02/11	8270DM	
Hexachlorobutadiene	<	10	UG/L	09/02/11	8270DM	
Dibenzofuran	<	10	UG/L	09/02/11	8270DM	
2-Methylnaphthalene	<	10	UG/L	09/02/11	8270DM	
2-Methylphenol	<	10	UG/L	09/02/11	8270DM	
4-Methylphenol	<	10	UG/L	09/02/11	8270DM	
2,4,5-Trichlorophenol	<	50	UG/L	09/02/11	8270DM	
4-Chloroaniline	<	10	UG/L	09/02/11	8270DM	
2-Nitroaniline	<	50	UG/L	09/02/11	8270DM	
3-Nitroaniline	<	50	UG/L	09/02/11	8270DM	
4-Nitroaniline	<	50	UG/L	09/02/11	8270DM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		87
2,4,6-TRIBROMOPHENOL		84
P-TERPHENYL-D14		80
2-FLUOROPHENOL		46

Sample Number: 508675
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1831
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/13/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		30
NITROBENZENE-D5		87

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NU			

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED RIVER

SAMPLERS COMMENTS:

LAB BLANK

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

*

* ANALYST

Cassandra Kontas

Sample Number: 508676
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1835
Date Received: 8/29/2011
Date Completed: 09/01/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/1/2011

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 GC
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
PH C6-C12 [GASOLINE RANG]	<	10.0	MG/KG	08/31/11	1005 M	
PH C12-C28 [DIESEL RANGE]	<	10.0	MG/KG	08/31/11	1005 M	
PH C28-C36 [LUBE OIL RAN]		11.0	MG/KG	08/31/11	1005 M	
TPH C6-C36		11.0	MG/KG	08/31/11	1005 M	

Summary

Labs performing analysis on this Sample:

Metals GC GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

RED CREEK APPROX 0.26MI UPSTREAM OF RED RIVER CONFLUENCE

ANALYST'S COMMENTS:

R. Neal Green (1005 M),

* ANALYST R. Neal Green

Sample Number: 508676
Project Code: GMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1835
Date Received: 8/29/2011
Date Completed: 09/07/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/7/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Chloride (Sed.)		3250	MG/KG	09/01/11	325.2M	
Sulfate (Sed.)		2890	MG/KG	09/01/11	375.4M	

Summary

Labs performing analysis on this Sample:

Metals GC GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

RED CREEK APPROX 0.26MI UPSTREAM OF RED RIVER CONFLUENCE

ANALYST'S COMMENTS:

Susan Mensik

* ANALYST

Susan Mensik

State Environmental Laboratory

Sample Number: 508676
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1835
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/19/2011

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: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		73.8				
Acenaphthylene	<	740	UG/KG	09/09/11	8270DM	
Acenaphthene	<	740	UG/KG	09/09/11	8270DM	
Anthracene	<	740	UG/KG	09/09/11	8270DM	
Benzo(b)fluoranthene	<	740	UG/KG	09/09/11	8270DM	
Benzo(k)fluoranthene	<	740	UG/KG	09/09/11	8270DM	
Benzo(a)pyrene	<	740	UG/KG	09/09/11	8270DM	
Bis(2-chloroethyl)ether	<	740	UG/KG	09/09/11	8270DM	
Bis(2-chloroethoxy)methane	<	740	UG/KG	09/09/11	8270DM	
Bis(2-chloroisopropyl)ethe:	<	740	UG/KG	09/09/11	8270DM	
Butylbenzylphthalate	<	740	UG/KG	09/09/11	8270DM	
Chrysene	<	740	UG/KG	09/09/11	8270DM	
Diethylphthalate	<	740	UG/KG	09/09/11	8270DM	
Dimethylphthalate	<	740	UG/KG	09/09/11	8270DM	
Fluoranthene	<	740	UG/KG	09/09/11	8270DM	
Fluorene	<	740	UG/KG	09/09/11	8270DM	
Hexachlorocyclopentadiene	<	740	UG/KG	09/09/11	8270DM	
Hexachloroethane	<	740	UG/KG	09/09/11	8270DM	
Indeno(123cd)pyrene	<	740	UG/KG	09/09/11	8270DM	
Isophorone	<	740	UG/KG	09/09/11	8270DM	
Nitrosodipropylamine	<	740	UG/KG	09/09/11	8270DM	
Nitrosodiphenylamine	<	740	UG/KG	09/09/11	8270DM	
Naphthalene	<	740	UG/KG	09/09/11	8270DM	
Nitrobenzene	<	740	UG/KG	09/09/11	8270DM	
p-Chloro-m-cresol	<	740	UG/KG	09/09/11	8270DM	
Phenanthrene	<	740	UG/KG	09/09/11	8270DM	
Pyrene	<	740	UG/KG	09/09/11	8270DM	
Benzo(ghi)perylene	<	740	UG/KG	09/09/11	8270DM	
Benzo(a)anthracene	<	740	UG/KG	09/09/11	8270DM	
Dibenzo(ah)anthracene	<	740	UG/KG	09/09/11	8270DM	
2-Chloronaphthalene	<	740	UG/KG	09/09/11	8270DM	
2-Chlorophenol	<	740	UG/KG	09/09/11	8270DM	
2-Nitrophenol	<	740	UG/KG	09/09/11	8270DM	

Sample Number: 508676
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1835
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/19/2011

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: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	740	UG/KG	09/09/11	8270DM	
2,4-Dichlorophenol	<	740	UG/KG	09/09/11	8270DM	
2,4-Dimethylphenol	<	740	UG/KG	09/09/11	8270DM	
2,4-Dinitrotoluene	<	740	UG/KG	09/09/11	8270DM	
2,4-Dinitrophenol	<	3700	UG/KG	09/09/11	8270DM	
2,4,6-Trichlorophenol	<	3700	UG/KG	09/09/11	8270DM	
2,6-Dinitrotoluene	<	740	UG/KG	09/09/11	8270DM	
3,3'-Dichlorobenzidine	<	1500	UG/KG	09/09/11	8270DM	
4-Bromophenylphenyl ether	<	740	UG/KG	09/09/11	8270DM	
4-Chlorophenyl phenylether	<	740	UG/KG	09/09/11	8270DM	
4-Nitrophenol	<	3700	UG/KG	09/09/11	8270DM	
4,6-Dinitro-o-cresol	<	3700	UG/KG	09/09/11	8270DM	
Phenol	<	740	UG/KG	09/09/11	8270DM	
Pentachlorophenol	<	3700	UG/KG	09/09/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	740	UG/KG	09/09/11	8270DM	
Di-n-butylphthalate	<	740	UG/KG	09/09/11	8270DM	
Hexachlorobenzene	<	740	UG/KG	09/09/11	8270DM	
Hexachlorobutadiene	<	740	UG/KG	09/09/11	8270DM	
Benzyl alcohol	<	740	UG/KG	09/09/11	8270DM	
Dibenzofuran	<	740	UG/KG	09/09/11	8270DM	
2-Methylphenol	<	740	UG/KG	09/09/11	8270DM	
4-Methylphenol	<	740	UG/KG	09/09/11	8270DM	
2,4,5-Trichlorophenol	<	3700	UG/KG	09/09/11	8270DM	
4-Chloroaniline	<	740	UG/KG	09/09/11	8270DM	
2-Nitroaniline	<	3700	UG/KG	09/09/11	8270DM	
3-Nitroaniline	<	3700	UG/KG	09/09/11	8270DM	
4-Nitroaniline	<	3700	UG/KG	09/09/11	8270DM	
2-Methylnaphthalene	<	740	UG/KG	09/09/11	8270DM	
% Moisture - GC/MS Lab		53.7	%		1005 M	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		66
NITROBENZENE-D5		69

Sample Number: 508676
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1835
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/19/2011

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: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		65
PHENOL-D5		74
2,4,6-TRIBROMOPHENOL		74
P-TERPHENYL-D14		125

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
----------	---	-------	-------

NU

Summary

Labs performing analysis on this Sample:

Metals GC GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

RED CREEK APPROX 0.26MI UPSTREAM OF RED RIVER CONFLUENCE

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

* ANALYST

Cassandra Kontas

Sample Number: 508676
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1835
Date Received: 8/29/2011
Date Completed: 09/06/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/6/2011

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 Metals
EPA Drinking Water Certification #OK00013

To: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Sodium, Sediment		5.20	MG/KG	09/02/11	6010	
Arsenic, Sediment	<	10.0	MG/KG	09/02/11	6010	
Barium, Sediment		283	MG/KG	09/02/11	6010	
Beryllium, Sediment	<	2.00	MG/KG	09/02/11	6010	
Cadmium, Sediment	<	5.00	MG/KG	09/02/11	6010	
Chromium, Sediment		63.0	MG/KG	09/02/11	6010	
Copper, Sediment		33.7	MG/KG	09/02/11	6010	
Lead, Sediment		38.7	MG/KG	09/02/11	6010	
Nickel, Sediment		48.5	MG/KG	09/02/11	6010	
Silver, Sediment	<	5.00	MG/KG	09/02/11	6010	
Strontium, Sediment		256	MG/KG	09/02/11	6010	
Zinc, Sediment		87.0	MG/KG	09/02/11	6010	
Antimony, Sediment	<	10.0	MG/KG	09/02/11	6010	
Selenium, Sediment	<	10.0	MG/KG	09/02/11	6010	
Thallium, Sediment	<	10.0	MG/KG	09/02/11	6010	
Mercury, Sediment	<	0.25	MG/KG	09/02/11	7471	
% Solids		44.9	%	09/06/11	CLP 5.4	

Summary

Labs performing analysis on this Sample:

Metals GC GCMS Gen. Chem.

SOURCE: RED CREEK

SAMPLERS COMMENTS:

RED CREEK APPROX 0.26MI UPSTREAM OF RED RIVER CONFLUENCE

ANALYST'S COMMENTS:



* ANALYST

Sample Number: 508677
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1835
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/19/2011

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: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractabl		33.9				
Acenaphthylene	<	340	UG/KG	09/09/11	8270DM	
Acenaphthene	<	340	UG/KG	09/09/11	8270DM	
Anthracene	<	340	UG/KG	09/09/11	8270DM	
Benzo(b)fluoranthene	<	340	UG/KG	09/09/11	8270DM	
Benzo(k)fluoranthene	<	340	UG/KG	09/09/11	8270DM	
Benzo(a)pyrene	<	340	UG/KG	09/09/11	8270DM	
Bis(2-chloroethyl)ether	<	340	UG/KG	09/09/11	8270DM	
Bis(2-chloroethoxy)methane	<	340	UG/KG	09/09/11	8270DM	
Bis(2-chloroisopropyl)ethe	<	340	UG/KG	09/09/11	8270DM	
Butylbenzylphthalate	<	340	UG/KG	09/09/11	8270DM	
Chrysene	<	340	UG/KG	09/09/11	8270DM	
Diethylphthalate	<	340	UG/KG	09/09/11	8270DM	
Dimethylphthalate	<	340	UG/KG	09/09/11	8270DM	
Fluoranthene	<	340	UG/KG	09/09/11	8270DM	
Fluorene	<	340	UG/KG	09/09/11	8270DM	
Hexachlorocyclopentadiene	<	340	UG/KG	09/09/11	8270DM	
Hexachloroethane	<	340	UG/KG	09/09/11	8270DM	
Indeno(123cd)pyrene	<	340	UG/KG	09/09/11	8270DM	
Isophorone	<	340	UG/KG	09/09/11	8270DM	
Nitrosodipropylamine	<	340	UG/KG	09/09/11	8270DM	
Nitrosodiphenylamine	<	340	UG/KG	09/09/11	8270DM	
Naphthalene	<	340	UG/KG	09/09/11	8270DM	
Nitrobenzene	<	340	UG/KG	09/09/11	8270DM	
p-Chloro-m-cresol	<	340	UG/KG	09/09/11	8270DM	
Phenanthrene	<	340	UG/KG	09/09/11	8270DM	
Pyrene	<	340	UG/KG	09/09/11	8270DM	
Benzo(ghi)perylene	<	340	UG/KG	09/09/11	8270DM	
Benzo(a)anthracene	<	340	UG/KG	09/09/11	8270DM	
Dibenzo(ah)anthracene	<	340	UG/KG	09/09/11	8270DM	
2-Chloronaphthalene	<	340	UG/KG	09/09/11	8270DM	
2-Chlorophenol	<	340	UG/KG	09/09/11	8270DM	
2-Nitrophenol	<	340	UG/KG	09/09/11	8270DM	

Sample Number: 508677
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1835
 Date Received: 8/29/2011
 Date Completed: 09/12/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 9/19/2011

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: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	340	UG/KG	09/09/11	8270DM	
2,4-Dichlorophenol	<	340	UG/KG	09/09/11	8270DM	
2,4-Dimethylphenol	<	340	UG/KG	09/09/11	8270DM	
2,4-Dinitrotoluene	<	340	UG/KG	09/09/11	8270DM	
2,4-Dinitrophenol	<	1700	UG/KG	09/09/11	8270DM	
2,4,6-Trichlorophenol	<	1700	UG/KG	09/09/11	8270DM	
2,6-Dinitrotoluene	<	340	UG/KG	09/09/11	8270DM	
3,3'-Dichlorobenzidine	<	680	UG/KG	09/09/11	8270DM	
4-Bromophenylphenyl ether	<	340	UG/KG	09/09/11	8270DM	
4-Chlorophenyl phenylether	<	340	UG/KG	09/09/11	8270DM	
4-Nitrophenol	<	1700	UG/KG	09/09/11	8270DM	
4,6-Dinitro-o-cresol	<	1700	UG/KG	09/09/11	8270DM	
Phenol	<	340	UG/KG	09/09/11	8270DM	
Pentachlorophenol	<	1700	UG/KG	09/09/11	8270DM	
Bis(2-ethylhexyl)phthalate	<	340	UG/KG	09/09/11	8270DM	
Di-n-butylphthalate	<	340	UG/KG	09/09/11	8270DM	
Hexachlorobenzene	<	340	UG/KG	09/09/11	8270DM	
Hexachlorobutadiene	<	340	UG/KG	09/09/11	8270DM	
Benzyl alcohol	<	340	UG/KG	09/09/11	8270DM	
Dibenzofuran	<	340	UG/KG	09/09/11	8270DM	
2-Methylphenol	<	340	UG/KG	09/09/11	8270DM	
4-Methylphenol	<	340	UG/KG	09/09/11	8270DM	
2,4,5-Trichlorophenol	<	1700	UG/KG	09/09/11	8270DM	
4-Chloroaniline	<	340	UG/KG	09/09/11	8270DM	
2-Nitroaniline	<	1700	UG/KG	09/09/11	8270DM	
3-Nitroaniline	<	1700	UG/KG	09/09/11	8270DM	
4-Nitroaniline	<	1700	UG/KG	09/09/11	8270DM	
2-Methylnaphthalene	<	340	UG/KG	09/09/11	8270DM	
% Moisture - GC/MS Lab			%		1005 M	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROPHENOL		91
2-FLUOROBIPHENYL		98

Sample Number: 508677
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1835
Date Received: 8/29/2011
Date Completed: 09/12/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 9/19/2011

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: BRIAN MAGOTT/CSD

CC: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		100
NITROBENZENE-D5		97
2,4,6-TRIBROMOPHENOL		93
P-TERPHENYL-D14		164

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
----------	---	-------	-------

NU

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

LAB BLANK

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(NU) The analysis indicates no 'tentatively identified' compounds present above the reporting limit for this analysis.

*

* ANALYST

Cassandra Kontas

Sample Number: 508678
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1432
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.00		08/29/11	8260BM	
Bromodichloromethane	<	10.0	UG/L	08/29/11	8260BM	
Carbon tetrachloride	<	10.0	UG/L	08/29/11	8260BM	
Bromoform	<	10.0	UG/L	08/29/11	8260BM	
Chloroform	<	10.0	UG/L	08/29/11	8260BM	
Toluene	<	10.0	UG/L	08/29/11	8260BM	
Benzene	<	10.0	UG/L	08/29/11	8260BM	
Chlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
Dibromochloromethane	<	10.0	UG/L	08/29/11	8260BM	
Chloroethane	<	10.0	UG/L	08/29/11	8260BM	
Ethylbenzene	<	10.0	UG/L	08/29/11	8260BM	
Bromomethane	<	10.0	UG/L	08/29/11	8260BM	
Methylene chloride	<	10.0	UG/L	08/29/11	8260BM	
Tetrachloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1,1-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2,2-Tetrachloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloropropane	<	10.0	UG/L	08/29/11	8260BM	
trans-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
trans-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
cis-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
Vinyl chloride	<	10.0	UG/L	08/29/11	8260BM	
Trichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Methylisobutyl ketone	<	10.0	UG/L	08/29/11	8260BM	
Carbon disulfide in water	<	10.0	ug/L	08/29/11	8260BM	
2-Hexanone	<	10.0	UG/L	08/29/11	8260BM	
Styrene	<	10.0	UG/L	08/29/11	8260BM	
Total Xylenes	<	10.0	UG/L	08/29/11	8260BM	
Acetone	<	10.0	UG/L	08/29/11	8260BM	
Methylethyl Ketone	<	10.0	UG/L	08/29/11	8260BM	

Sample Number: 508678
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1432
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dichlorodifluoromethane	<	10.0	UG/L	08/29/11	8260BM	
Trichlorofluoromethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloro-1,2,2-trifluoroethane	<	10.0	UG/L	08/29/11	8260BM	
Methyl Acetate	<	10.0	UG/L	08/29/11	8260BM	
Methyl tert-butyl ether (MTBE)	<	10.0	UG/L	08/29/11	8260BM	
cis-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Cyclohexane	<	10.0	UG/L	08/29/11	8260BM	
Methylcyclohexane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromoethane	<	10.0	UG/L	08/29/11	8260BM	
Isopropylbenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,3-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,4-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromo-3-chloropropane	<	10.0	UG/L	08/29/11	8260BM	
1,2,4-Trichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
1,2-DICHLOROETHANE-D4		96
TOLUENE-D8		103
4-BROMOFLUOROBENZENE		100

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NONE FOUND		0	

Summary

Labs performing analysis on this Sample:
 GCMS

Sample Number: 508678
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

SOURCE: RED RIVER

SAMPLERS COMMENTS:

RED RIVER@KETCHUM BLUFF; SITE# 15; PH=8.50; DO=4.71MG/L; TEMP=32.12; SPEC CON=7,987US

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* * ANALYST

Agnes Elie

Sample Number: 508679
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1432
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.00		08/29/11	8260BM	
Bromodichloromethane	<	10.0	UG/L	08/29/11	8260BM	
Carbon tetrachloride	<	10.0	UG/L	08/29/11	8260BM	
Bromoform	<	10.0	UG/L	08/29/11	8260BM	
Chloroform	<	10.0	UG/L	08/29/11	8260BM	
Toluene	<	10.0	UG/L	08/29/11	8260BM	
Benzene	<	10.0	UG/L	08/29/11	8260BM	
Chlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
Dibromochloromethane	<	10.0	UG/L	08/29/11	8260BM	
Chloroethane	<	10.0	UG/L	08/29/11	8260BM	
Ethylbenzene	<	10.0	UG/L	08/29/11	8260BM	
Bromomethane	<	10.0	UG/L	08/29/11	8260BM	
Methylene chloride	<	10.0	UG/L	08/29/11	8260BM	
Tetrachloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1,1-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2,2-Tetrachloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloropropane	<	10.0	UG/L	08/29/11	8260BM	
trans-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
trans-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
cis-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
Vinyl chloride	<	10.0	UG/L	08/29/11	8260BM	
Trichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Methylisobutyl ketone	<	10.0	UG/L	08/29/11	8260BM	
Carbon disulfide in water	<	10.0	ug/L	08/29/11	8260BM	
2-Hexanone	<	10.0	UG/L	08/29/11	8260BM	
Styrene	<	10.0	UG/L	08/29/11	8260BM	
Total Xylenes	<	10.0	UG/L	08/29/11	8260BM	
Acetone	<	10.0	UG/L	08/29/11	8260BM	
Methylethyl Ketone	<	10.0	UG/L	08/29/11	8260BM	

Sample Number: 508679
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1432
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dichlorodifluoromethane	<	10.0	UG/L	08/29/11	8260BM	
Trichlorofluoromethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloro-1,2,2-trifl	<	10.0	UG/L	08/29/11	8260BM	
Methyl Acetate	<	10.0	UG/L	08/29/11	8260BM	
Methyl tert-butyl ether (M	<	10.0	UG/L	08/29/11	8260BM	
cis-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Cyclohexane	<	10.0	UG/L	08/29/11	8260BM	
Methylcyclohexane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromoethane	<	10.0	UG/L	08/29/11	8260BM	
Isopropylbenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,3-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,4-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromo-3-chloropropane	<	10.0	UG/L	08/29/11	8260BM	
1,2,4-Trichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
1,2-DICHLOROETHANE-D4		95
4-BROMOFLUOROBENZENE		98
TOLUENE-D8		102

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NONE FOUND		0	

Summary

Labs performing analysis on this Sample:
 GCMS

Sample Number: 508679
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1432
Date Received: 8/29/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

SOURCE: RED RIVER

SAMPLERS COMMENTS:
TRIP BLANK

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* * ANALYST

Agnes Che

Sample Number: 508680
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected:
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.00		08/29/11	8260BM	
Bromodichloromethane	<	10.0	UG/L	08/29/11	8260BM	
Carbon tetrachloride	<	10.0	UG/L	08/29/11	8260BM	
Bromoform	<	10.0	UG/L	08/29/11	8260BM	
Chloroform	<	10.0	UG/L	08/29/11	8260BM	
Toluene	<	10.0	UG/L	08/29/11	8260BM	
Benzene	<	10.0	UG/L	08/29/11	8260BM	
Chlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
Dibromochloromethane	<	10.0	UG/L	08/29/11	8260BM	
Chloroethane	<	10.0	UG/L	08/29/11	8260BM	
Ethylbenzene	<	10.0	UG/L	08/29/11	8260BM	
Bromomethane	<	10.0	UG/L	08/29/11	8260BM	
Methylene chloride	<	10.0	UG/L	08/29/11	8260BM	
Tetrachloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1,1-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2,2-Tetrachloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloropropane	<	10.0	UG/L	08/29/11	8260BM	
trans-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
trans-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
cis-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
Vinyl chloride	<	10.0	UG/L	08/29/11	8260BM	
Trichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Methylisobutyl ketone	<	10.0	UG/L	08/29/11	8260BM	
Carbon disulfide in water	<	10.0	ug/L	08/29/11	8260BM	
2-Hexanone	<	10.0	UG/L	08/29/11	8260BM	
Styrene	<	10.0	UG/L	08/29/11	8260BM	
Total Xylenes	<	10.0	UG/L	08/29/11	8260BM	
Acetone	<	10.0	UG/L	08/29/11	8260BM	
Methylethyl Ketone	<	10.0	UG/L	08/29/11	8260BM	

Sample Number: 508680
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected:
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dichlorodifluoromethane	<	10.0	UG/L	08/29/11	8260BM	
Trichlorofluoromethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloro-1,2,2-trifl	<	10.0	UG/L	08/29/11	8260BM	
Methyl Acetate	<	10.0	UG/L	08/29/11	8260BM	
Methyl tert-butyl ether (M	<	10.0	UG/L	08/29/11	8260BM	
cis-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Cyclohexane	<	10.0	UG/L	08/29/11	8260BM	
Methylcyclohexane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromoethane	<	10.0	UG/L	08/29/11	8260BM	
Isopropylbenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,3-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,4-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromo-3-chloropropan	<	10.0	UG/L	08/29/11	8260BM	
1,2,4-Trichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
1,2-DICHLOROETHANE-D4		97
TOLUENE-D8		99
4-BROMOFLUOROBENZENE		100

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NONE FOUND			0

Summary

Labs performing analysis on this Sample:
 GCMS

Sample Number: 508680
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected:
Date Received: 8/29/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

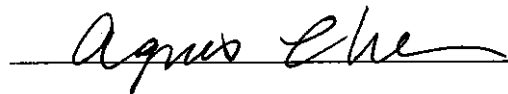
SOURCE: RED RIVER

SAMPLERS COMMENTS:
LAB BLANK

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

* * ANALYST



Sample Number: 508681
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.00		08/29/11	8260BM	
Bromodichloromethane	<	10.0	UG/L	08/29/11	8260BM	
Carbon tetrachloride	<	10.0	UG/L	08/29/11	8260BM	
Bromoform	<	10.0	UG/L	08/29/11	8260BM	
Chloroform	<	10.0	UG/L	08/29/11	8260BM	
Toluene	<	10.0	UG/L	08/29/11	8260BM	
Benzene	<	10.0	UG/L	08/29/11	8260BM	
Chlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
Dibromochloromethane	<	10.0	UG/L	08/29/11	8260BM	
Chloroethane	<	10.0	UG/L	08/29/11	8260BM	
Ethylbenzene	<	10.0	UG/L	08/29/11	8260BM	
Bromomethane	<	10.0	UG/L	08/29/11	8260BM	
Methylene chloride	<	10.0	UG/L	08/29/11	8260BM	
Tetrachloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1,1-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2,2-Tetrachloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloropropane	<	10.0	UG/L	08/29/11	8260BM	
trans-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
trans-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
cis-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
Vinyl chloride	<	10.0	UG/L	08/29/11	8260BM	
Trichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Methylisobutyl ketone	<	10.0	UG/L	08/29/11	8260BM	
Carbon disulfide in water	<	10.0	ug/L	08/29/11	8260BM	
2-Hexanone	<	10.0	UG/L	08/29/11	8260BM	
Styrene	<	10.0	UG/L	08/29/11	8260BM	
Total Xylenes	<	10.0	UG/L	08/29/11	8260BM	
Acetone	B	12.0	UG/L	08/29/11	8260BM	
Methylethyl Ketone	<	10.0	UG/L	08/29/11	8260BM	

Sample Number: 508681
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dichlorodifluoromethane	<	10.0	UG/L	08/29/11	8260BM	
Trichlorofluoromethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloro-1,2,2-trifl	<	10.0	UG/L	08/29/11	8260BM	
Methyl Acetate	<	10.0	UG/L	08/29/11	8260BM	
Methyl tert-butyl ether (M	<	10.0	UG/L	08/29/11	8260BM	
cis-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Cyclohexane	<	10.0	UG/L	08/29/11	8260BM	
Methylcyclohexane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromoethane	<	10.0	UG/L	08/29/11	8260BM	
Isopropylbenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,3-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,4-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromo-3-chloropropane	<	10.0	UG/L	08/29/11	8260BM	
1,2,4-Trichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
4-BROMOFLUOROBENZENE		99
TOLUENE-D8		103
1,2-DICHLOROETHANE-D4		97

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NONE FOUND		0	

Summary

Labs performing analysis on this Sample:
 GCMS

Sample Number: 508681
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1831
Date Received: 8/29/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

SOURCE: RED CREEK

SAMPLERS COMMENTS:

RED CREEK APPROX 0.26MI UPSTREAM OF RED RIVER CONFLUENCE;PH=8.75,DO=5.02MG/L;TEMP=36.56;SPEC
CON=10,641

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:

(B) The analyte was detected in the associated method blank and in the sample.

* ANALYST

Agnes Che

Sample Number: 508682
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.00		08/29/11	8260BM	
Bromodichloromethane	<	10.0	UG/L	08/29/11	8260BM	
Carbon tetrachloride	<	10.0	UG/L	08/29/11	8260BM	
Bromoform	<	10.0	UG/L	08/29/11	8260BM	
Chloroform	<	10.0	UG/L	08/29/11	8260BM	
Toluene	<	10.0	UG/L	08/29/11	8260BM	
Benzene	<	10.0	UG/L	08/29/11	8260BM	
Chlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
Dibromochloromethane	<	10.0	UG/L	08/29/11	8260BM	
Chloroethane	<	10.0	UG/L	08/29/11	8260BM	
Ethylbenzene	<	10.0	UG/L	08/29/11	8260BM	
Bromomethane	<	10.0	UG/L	08/29/11	8260BM	
Methylene chloride	<	10.0	UG/L	08/29/11	8260BM	
Tetrachloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1,1-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2,2-Tetrachloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloropropane	<	10.0	UG/L	08/29/11	8260BM	
trans-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
trans-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
cis-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
Vinyl chloride	<	10.0	UG/L	08/29/11	8260BM	
Trichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Methylisobutyl ketone	<	10.0	UG/L	08/29/11	8260BM	
Carbon disulfide in water	<	10.0	ug/L	08/29/11	8260BM	
2-Hexanone	<	10.0	UG/L	08/29/11	8260BM	
Styrene	<	10.0	UG/L	08/29/11	8260BM	
Total Xylenes	<	10.0	UG/L	08/29/11	8260BM	
Acetone	J	9.0	UG/L	08/29/11	8260BM	
Methylethyl Ketone	<	10.0	UG/L	08/29/11	8260BM	

Sample Number: 508682
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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 #OKD00013

To: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dichlorodifluoromethane	<	10.0	UG/L	08/29/11	8260BM	
Trichlorofluoromethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloro-1,2,2-trifl	<	10.0	UG/L	08/29/11	8260BM	
Methyl Acetate	<	10.0	UG/L	08/29/11	8260BM	
Methyl tert-butyl ether (M	<	10.0	UG/L	08/29/11	8260BM	
cis-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Cyclohexane	<	10.0	UG/L	08/29/11	8260BM	
Methylcyclohexane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromoethane	<	10.0	UG/L	08/29/11	8260BM	
Isopropylbenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,3-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,4-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromo-3-chloropropane	<	10.0	UG/L	08/29/11	8260BM	
1,2,4-Trichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
TOLUENE-D8		99
4-BROMOFLUOROBENZENE		97
1,2-DICHLOROETHANE-D4		96

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NONE FOUND		0	

Summary

Labs performing analysis on this Sample:
 GCMS

Sample Number: 508682
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1831
Date Received: 8/29/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

SOURCE: RED CREEK

SAMPLERS COMMENTS:
TRIP BLANK

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:
(J) The associated value is an estimated quantity

* * ANALYST *Agnis Elie*

Sample Number: 508683
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.00		08/29/11	8260BM	
Bromodichloromethane	<	10.0	UG/L	08/29/11	8260BM	
Carbon tetrachloride	<	10.0	UG/L	08/29/11	8260BM	
Bromoform	<	10.0	UG/L	08/29/11	8260BM	
Chloroform	<	10.0	UG/L	08/29/11	8260BM	
Toluene	<	10.0	UG/L	08/29/11	8260BM	
Benzene	<	10.0	UG/L	08/29/11	8260BM	
Chlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
Dibromochloromethane	<	10.0	UG/L	08/29/11	8260BM	
Chloroethane	<	10.0	UG/L	08/29/11	8260BM	
Ethylbenzene	<	10.0	UG/L	08/29/11	8260BM	
Bromomethane	<	10.0	UG/L	08/29/11	8260BM	
Methylene chloride	<	10.0	UG/L	08/29/11	8260BM	
Tetrachloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
1,1,1-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2,2-Tetrachloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloroethane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichloropropane	<	10.0	UG/L	08/29/11	8260BM	
trans-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
trans-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
cis-1,3-Dichloropropene	<	10.0	UG/L	08/29/11	8260BM	
Vinyl chloride	<	10.0	UG/L	08/29/11	8260BM	
Trichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Methylisobutyl ketone	<	10.0	UG/L	08/29/11	8260BM	
Carbon disulfide in water	<	10.0	ug/L	08/29/11	8260BM	
2-Hexanone	<	10.0	UG/L	08/29/11	8260BM	
Styrene	<	10.0	UG/L	08/29/11	8260BM	
Total Xylenes	<	10.0	UG/L	08/29/11	8260BM	
Acetone	J	3.0	UG/L	08/29/11	8260BM	
Methylethyl Ketone	<	10.0	UG/L	08/29/11	8260BM	

Sample Number: 508683
 Project Code: CMP-FK
 Agency Number:
 Date Collected: 8/26/2011
 Time Collected: 1831
 Date Received: 8/29/2011
 Date Completed: 08/30/2011
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
 DEBBIE NICHOLS/ECLS
 BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dichlorodifluoromethane	<	10.0	UG/L	08/29/11	8260BM	
Trichlorofluoromethane	<	10.0	UG/L	08/29/11	8260BM	
1,1,2-Trichloro-1,2,2-trifluoroethane	<	10.0	UG/L	08/29/11	8260BM	
Methyl Acetate	<	10.0	UG/L	08/29/11	8260BM	
Methyl tert-butyl ether (MTBE)	<	10.0	UG/L	08/29/11	8260BM	
cis-1,2-Dichloroethene	<	10.0	UG/L	08/29/11	8260BM	
Cyclohexane	<	10.0	UG/L	08/29/11	8260BM	
Methylcyclohexane	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromoethane	<	10.0	UG/L	08/29/11	8260BM	
Isopropylbenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,3-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,4-Dichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	
1,2-Dibromo-3-chloropropane	<	10.0	UG/L	08/29/11	8260BM	
1,2,4-Trichlorobenzene	<	10.0	UG/L	08/29/11	8260BM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
TOLUENE-D8		99
1,2-DICHLOROETHANE-D4		97
4-BROMOFLUOROBENZENE		100

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
NONE FOUND		0	

Summary

Labs performing analysis on this Sample:
 GCMS

Sample Number: 508683
Project Code: CMP-FK
Agency Number:
Date Collected: 8/26/2011
Time Collected: 1831
Date Received: 8/29/2011
Date Completed: 08/30/2011
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 8/30/2011

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: BRIAN MAGOTT/CSD
DEBBIE NICHOLS/ECLS
BUCK WRAY/ODWC

CC: BRIAN MAGOTT/CSD

SOURCE: RED CREEK

SAMPLERS COMMENTS:
LAB BLANK

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 6.0

ANALYST'S COMMENTS:
(J) The associated value is an estimated quantity

* ANALYST

Agnis Che