

Sample Number: 519621
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/20/2012
 Time Collected: 1840
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/12/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or sels.ok.gov
Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.0		07/02/12		
1,1-Dichloropropene		< 10.0	UG/KG	07/02/12	8260CM	
Bromomethane	J	< 10.0	UG/KG	07/02/12	8260CM	
Chloromethane	J	< 10.0	UG/KG	07/02/12	8260CM	
2-Chlorotoluene		< 10.0	UG/KG	07/02/12	8260CM	
1,1,1,2-Tetrachloroethane		< 10.0	UG/KG	07/02/12	8260CM	
1,2,3-Trichloropropane		< 10.0	UG/KG	07/02/12	8260CM	
m- & p-Xylene		< 20.0	UG/KG	07/02/12	8260CM	
2,2-Dichloropropane		< 10.0	UG/KG	07/02/12	8260CM	
2-Butanone	J	< 10.0	UG/KG	07/02/12	8260CM	
p-Isopropyltoluene		< 10.0	UG/KG	07/02/12	8260CM	
Benzene		< 10.0	UG/KG	07/02/12	8260CM	
Bromoform		< 10.0	UG/KG	07/02/12	8260CM	
Carbon tetrachloride		< 10.0	UG/KG	07/02/12	8260CM	
Chlorobenzene		< 10.0	UG/KG	07/02/12	8260CM	
Dibromochloromethane		< 10.0	UG/KG	07/02/12	8260CM	
Chloroethane	J	< 10.0	UG/KG	07/02/12	8260CM	
Chloroform		< 10.0	UG/KG	07/02/12	8260CM	
Bromodichloromethane		< 10.0	UG/KG	07/02/12	8260CM	
Ethylbenzene		< 10.0	UG/KG	07/02/12	8260CM	
Methylene chloride		< 10.0	UG/KG	07/02/12	8260CM	
Naphthalene		< 10.0	UG/KG	07/02/12	8260CM	
Tetrachloroethene		< 10.0	UG/KG	07/02/12	8260CM	
Toluene		< 10.0	UG/KG	07/02/12	8260CM	
Trichloroethene		< 10.0	UG/KG	07/02/12	8260CM	
Vinyl chloride	J	< 10.0	UG/KG	07/02/12	8260CM	
1,1-Dichloroethane		< 10.0	UG/KG	07/02/12	8260CM	
1,1-Dichloroethene		< 10.0	UG/KG	07/02/12	8260CM	
1,1,1-Trichloroethane		< 10.0	UG/KG	07/02/12	8260CM	
1,1,2-Trichloroethane		< 10.0	UG/KG	07/02/12	8260CM	
1,1,2,2-Tetrachloroethane		< 10.0	UG/KG	07/02/12	8260CM	
1,2-Dichloroethane		< 10.0	UG/KG	07/02/12	8260CM	
1,2-Dichloropropane		< 10.0	UG/KG	07/02/12	8260CM	

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
trans-1,2-Dichloroethene	<	10.0	UG/KG	07/02/12	8260CM	
1,3-Dichloropropane	<	10.0	UG/KG	07/02/12	8260CM	
trans-1,3-Dichloropropene	<	10.0	UG/KG	07/02/12	8260CM	
cis-1,3-Dichloropropene	<	10.0	UG/KG	07/02/12	8260CM	
1,4-Dioxane	NA		UG/KG	07/02/12		
Total Xylenes	<	20.0	UG/KG	07/02/12	8260CM	
Hexachlorobutadiene	<	10.0	UG/KG	07/02/12	8260CM	
Acetone	J	<	10.0	UG/KG	07/02/12	8260CM
2-Hexanone	<	10.0	UG/KG	07/02/12	8260CM	
Styrene	<	10.0	UG/KG	07/02/12	8260CM	
Carbon disulfide	<	10.0	UG/KG	07/02/12	8260CM	
4-Methyl-2-Pentanone	<	10.0	UG/KG	07/02/12	8260CM	
o-Xylene	<	10.0	UG/KG	07/02/12	8260CM	
n-Butylbenzene	<	10.0	UG/KG	07/02/12	8260CM	
sec-Butylbenzene	<	10.0	UG/KG	07/02/12	8260CM	
tert-Butylbenzene	<	10.0	UG/KG	07/02/12	8260CM	
Bromobenzene	<	10.0	UG/KG	07/02/12	8260CM	
Bromchloromethane	<	10.0	UG/KG	07/02/12	8260CM	
1,2,4-Trimethylbenzene	<	10.0	UG/KG	07/02/12	8260CM	
1,3,5-Trimethylbenzene	<	10.0	UG/KG	07/02/12	8260CM	
Dibromomethane	<	10.0	UG/KG	07/02/12	8260CM	
n-Propylbenzene	<	10.0	UG/KG	07/02/12	8260CM	
4-Chlorotoluene	<	10.0	UG/KG	07/02/12	8260CM	
1,2,3-Trichlorobenzene	J	<	10.0	UG/KG	07/02/12	8260CM
% Moisture - GC/MS Lab		24.7	%	07/02/12	1005 M	
Dichlorodifluoromethane	J	<	10.0	UG/KG	07/02/12	8260CM
Trichlorofluoromethane	<	10.0	UG/KG	07/02/12	8260CM	
Methyl tert-butyl ether (MTBE)	<	10.0	UG/KG	07/02/12	8260CM	
cis-1,2-Dichloroethene	<	10.0	UG/KG	07/02/12	8260CM	
Cyclohexane	<	10.0	UG/KG	07/02/12	8260CM	
Methylcyclohexane	<	10.0	UG/KG	07/02/12	8260CM	
1,2-Dibromoethane	<	10.0	UG/KG	07/02/12	8260CM	
Isopropylbenzene	<	10.0	UG/KG	07/02/12	8260CM	

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
1,2-Dichlorobenzene	<	10.0	UG/KG	07/02/12	8260CM	
1,3-Dichlorobenzene	<	10.0	UG/KG	07/02/12	8260CM	
1,4-Dichlorobenzene	<	10.0	UG/KG	07/02/12	8260CM	
1,2-Dibromo-3-chloropropane	<	10.0	UG/KG	07/02/12	8260CM	
1,2,4-Trichlorobenzene	J <	10.0	UG/KG	07/02/12	8260CM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
MTBE-D3		92
4-BROMOFLUOROBENZENE		94
1,2-DICHLOROBENZENE-D4		104

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NO ANALYTES DETECTED ABOVE MQL

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: UNNAMED TEXAS TRIBUT

SAMPLERS COMMENTS:

1; FARM RD 2849

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 0.5

ANALYST'S COMMENTS:

Heather Rhoads (8260CM), (NA) Not analyzed; (J) The associated value is an estimated quantity due to (QCF) Quality Control failure.

* ANALYST



Sample Number: 519622
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1022
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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.82		07/02/12		
1,1-Dichloropropene		< 18.2	UG/KG	07/02/12	8260CM	
Bromomethane	J	< 18.2	UG/KG	07/02/12	8260CM	
Chloromethane	J	< 18.2	UG/KG	07/02/12	8260CM	
2-Chlorotoluene		< 18.2	UG/KG	07/02/12	8260CM	
1,1,1,2-Tetrachloroethane		< 18.2	UG/KG	07/02/12	8260CM	
1,2,3-Trichloropropane		< 18.2	UG/KG	07/02/12	8260CM	
m- & p-Xylene		< 36.4	UG/KG	07/02/12	8260CM	
2,2-Dichloropropane		< 18.2	UG/KG	07/02/12	8260CM	
2-Butanone	J	< 18.2	UG/KG	07/02/12	8260CM	
p-Isopropyltoluene		< 18.2	UG/KG	07/02/12	8260CM	
Benzene		< 18.2	UG/KG	07/02/12	8260CM	
Bromoform		< 18.2	UG/KG	07/02/12	8260CM	
Carbon tetrachloride		< 18.2	UG/KG	07/02/12	8260CM	
Chlorobenzene		< 18.2	UG/KG	07/02/12	8260CM	
Dibromochloromethane		< 18.2	UG/KG	07/02/12	8260CM	
Chloroethane	J	< 18.2	UG/KG	07/02/12	8260CM	
Chloroform		< 18.2	UG/KG	07/02/12	8260CM	
Bromodichloromethane		< 18.2	UG/KG	07/02/12	8260CM	
Ethylbenzene		< 18.2	UG/KG	07/02/12	8260CM	
Methylene chloride		< 18.2	UG/KG	07/02/12	8260CM	
Naphthalene		< 18.2	UG/KG	07/02/12	8260CM	
Tetrachloroethene		< 18.2	UG/KG	07/02/12	8260CM	
Toluene		< 18.2	UG/KG	07/02/12	8260CM	
Trichloroethene		< 18.2	UG/KG	07/02/12	8260CM	
Vinyl chloride	J	< 18.2	UG/KG	07/02/12	8260CM	
1,1-Dichloroethane		< 18.2	UG/KG	07/02/12	8260CM	
1,1-Dichloroethene		< 18.2	UG/KG	07/02/12	8260CM	
1,1,1-Trichloroethane		< 18.2	UG/KG	07/02/12	8260CM	
1,1,2-Trichloroethane		< 18.2	UG/KG	07/02/12	8260CM	
1,1,2,2-Tetrachloroethane		< 18.2	UG/KG	07/02/12	8260CM	
1,2-Dichloroethane		< 18.2	UG/KG	07/02/12	8260CM	
1,2-Dichloropropane		< 18.2	UG/KG	07/02/12	8260CM	

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
trans-1,2-Dichloroethene	<	18.2	UG/KG	07/02/12	8260CM	
1,3-Dichloropropane	<	18.2	UG/KG	07/02/12	8260CM	
trans-1,3-Dichloropropene	<	18.2	UG/KG	07/02/12	8260CM	
cis-1,3-Dichloropropene	<	18.2	UG/KG	07/02/12	8260CM	
1,4-Dioxane	NA		UG/KG	07/02/12		
Total Xylenes	<	36.4	UG/KG	07/02/12	8260CM	
Hexachlorobutadiene	<	18.2	UG/KG	07/02/12	8260CM	
Acetone	J	67.0	UG/KG	07/02/12	8260CM	
2-Hexanone	<	18.2	UG/KG	07/02/12	8260CM	
Styrene	<	18.2	UG/KG	07/02/12	8260CM	
Carbon disulfide	<	18.2	UG/KG	07/02/12	8260CM	
4-Methyl-2-Pentanone	<	18.2	UG/KG	07/02/12	8260CM	
o-Xylene	<	18.2	UG/KG	07/02/12	8260CM	
n-Butylbenzene	<	18.2	UG/KG	07/02/12	8260CM	
sec-Butylbenzene	<	18.2	UG/KG	07/02/12	8260CM	
tert-Butylbenzene	<	18.2	UG/KG	07/02/12	8260CM	
Bromobenzene	<	18.2	UG/KG	07/02/12	8260CM	
Bromchloromethane	<	18.2	UG/KG	07/02/12	8260CM	
1,2,4-Trimethylbenzene	<	18.2	UG/KG	07/02/12	8260CM	
1,3,5-Trimethylbenzene	<	18.2	UG/KG	07/02/12	8260CM	
Dibromomethane	<	18.2	UG/KG	07/02/12	8260CM	
n-Propylbenzene	<	18.2	UG/KG	07/02/12	8260CM	
4-Chlorotoluene	<	18.2	UG/KG	07/02/12	8260CM	
1,2,3-Trichlorobenzene	J	<	18.2	UG/KG	07/02/12	8260CM
% Moisture - GC/MS Lab		35.2	%	07/02/12	1005 M	
Dichlorodifluoromethane	J	<	18.2	UG/KG	07/02/12	8260CM
Trichlorofluoromethane	<	18.2	UG/KG	07/02/12	8260CM	
Methyl tert-butyl ether (MTBE)	<	18.2	UG/KG	07/02/12	8260CM	
cis-1,2-Dichloroethene	<	18.2	UG/KG	07/02/12	8260CM	
Cyclohexane	<	18.2	UG/KG	07/02/12	8260CM	
Methylcyclohexane	<	18.2	UG/KG	07/02/12	8260CM	
1,2-Dibromoethane	<	18.2	UG/KG	07/02/12	8260CM	
Isopropylbenzene	<	18.2	UG/KG	07/02/12	8260CM	

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
1,2-Dichlorobenzene	<	18.2	UG/KG	07/02/12	8260CM	
1,3-Dichlorobenzene	<	18.2	UG/KG	07/02/12	8260CM	
1,4-Dichlorobenzene	<	18.2	UG/KG	07/02/12	8260CM	
1,2-Dibromo-3-chloropropane	<	18.2	UG/KG	07/02/12	8260CM	
1,2,4-Trichlorobenzene	J <	18.2	UG/KG	07/02/12	8260CM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
4-BROMOFLUOROBENZENE		95
MTBE-D3		98
1,2-DICHLOROBENZENE-D4		103

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NO ANALYTES DETECTED ABOVE MQL

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#2; CO RD 2940

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.6

ANALYST'S COMMENTS:

Heather Rhoads (8260CM), (NA) Not analyzed; (J) The associated value is an estimated quantity due to (QCF) Quality Control failure.

*

* ANALYST

Heather Rhoads

Sample Number: 519623
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1133
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		0.74		07/03/12		
1,1-Dichloropropene		< 7.4	UG/KG	07/03/12	8260CM	
Bromomethane	J	< 7.4	UG/KG	07/03/12	8260CM	
Chloromethane	J	< 7.4	UG/KG	07/03/12	8260CM	
2-Chlorotoluene		< 7.4	UG/KG	07/03/12	8260CM	
1,1,1,2-Tetrachloroethane		< 7.4	UG/KG	07/03/12	8260CM	
1,2,3-Trichloropropane		< 7.4	UG/KG	07/03/12	8260CM	
m- & p-Xylene		< 14.8	UG/KG	07/03/12	8260CM	
2,2-Dichloropropane		< 7.4	UG/KG	07/03/12	8260CM	
2-Butanone		< 7.4	UG/KG	07/03/12	8260CM	
p-Isopropyltoluene		< 7.4	UG/KG	07/03/12	8260CM	
Benzene		< 7.4	UG/KG	07/03/12	8260CM	
Bromoform		< 7.4	UG/KG	07/03/12	8260CM	
Carbon tetrachloride		< 7.4	UG/KG	07/03/12	8260CM	
Chlorobenzene		< 7.4	UG/KG	07/03/12	8260CM	
Dibromochloromethane		< 7.4	UG/KG	07/03/12	8260CM	
Chloroethane	J	< 7.4	UG/KG	07/03/12	8260CM	
Chloroform		< 7.4	UG/KG	07/03/12	8260CM	
Bromodichloromethane		< 7.4	UG/KG	07/03/12	8260CM	
Ethylbenzene		< 7.4	UG/KG	07/03/12	8260CM	
Methylene chloride	J	< 7.4	UG/KG	07/03/12	8260CM	
Naphthalene		< 7.4	UG/KG	07/03/12	8260CM	
Tetrachloroethene		< 7.4	UG/KG	07/03/12	8260CM	
Toluene		< 7.4	UG/KG	07/03/12	8260CM	
Trichloroethene		< 7.4	UG/KG	07/03/12	8260CM	
Vinyl chloride	J	< 7.4	UG/KG	07/03/12	8260CM	
1,1-Dichloroethane	J	< 7.4	UG/KG	07/03/12	8260CM	
1,1-Dichloroethene		< 7.4	UG/KG	07/03/12	8260CM	
1,1,1-Trichloroethane		< 7.4	UG/KG	07/03/12	8260CM	
1,1,2-Trichloroethane		< 7.4	UG/KG	07/03/12	8260CM	
1,1,2,2-Tetrachloroethane		< 7.4	UG/KG	07/03/12	8260CM	
1,2-Dichloroethane		< 7.4	UG/KG	07/03/12	8260CM	
1,2-Dichloropropane		< 7.4	UG/KG	07/03/12	8260CM	

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
trans-1,2-Dichloroethene	<	7.4	UG/KG	07/03/12	8260CM	
1,3-Dichloropropane	<	7.4	UG/KG	07/03/12	8260CM	
trans-1,3-Dichloropropene	<	7.4	UG/KG	07/03/12	8260CM	
cis-1,3-Dichloropropene	<	7.4	UG/KG	07/03/12	8260CM	
1,4-Dioxane	NA		UG/KG	07/03/12		
Total Xylenes	<	14.8	UG/KG	07/03/12	8260CM	
Hexachlorobutadiene	<	7.4	UG/KG	07/03/12	8260CM	
Acetone	<	7.4	UG/KG	07/03/12	8260CM	
2-Hexanone	<	7.4	UG/KG	07/03/12	8260CM	
Styrene	<	7.4	UG/KG	07/03/12	8260CM	
Carbon disulfide	J	<	7.4	UG/KG	07/03/12	8260CM
4-Methyl-2-Pentanone	<	7.4	UG/KG	07/03/12	8260CM	
o-Xylene	<	7.4	UG/KG	07/03/12	8260CM	
n-Butylbenzene	<	7.4	UG/KG	07/03/12	8260CM	
sec-Butylbenzene	<	7.4	UG/KG	07/03/12	8260CM	
tert-Butylbenzene	<	7.4	UG/KG	07/03/12	8260CM	
Bromobenzene	<	7.4	UG/KG	07/03/12	8260CM	
Bromochloromethane	<	7.4	UG/KG	07/03/12	8260CM	
1,2,4-Trimethylbenzene	<	7.4	UG/KG	07/03/12	8260CM	
1,3,5-Trimethylbenzene	<	7.4	UG/KG	07/03/12	8260CM	
Dibromomethane	<	7.4	UG/KG	07/03/12	8260CM	
n-Propylbenzene	<	7.4	UG/KG	07/03/12	8260CM	
4-Chlorotoluene	<	7.4	UG/KG	07/03/12	8260CM	
1,2,3-Trichlorobenzene	J	<	7.4	UG/KG	07/03/12	8260CM
% Moisture - GC/MS Lab		29.7	%	07/03/12	1005 M	
Dichlorodifluoromethane	J	<	7.4	UG/KG	07/03/12	8260CM
Trichlorofluoromethane	J	<	7.4	UG/KG	07/03/12	8260CM
Methyl tert-butyl ether (MTBE)	<	7.4	UG/KG	07/03/12	8260CM	
cis-1,2-Dichloroethene	<	7.4	UG/KG	07/03/12	8260CM	
Cyclohexane	<	7.4	UG/KG	07/03/12	8260CM	
Methylcyclohexane	<	7.4	UG/KG	07/03/12	8260CM	
1,2-Dibromoethane	<	7.4	UG/KG	07/03/12	8260CM	
Isopropylbenzene	<	7.4	UG/KG	07/03/12	8260CM	

Sample Number: 519623
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1133
Date Received: 6/22/2012
Date Completed: 07/11/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 7/12/2012

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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
1,2-Dichlorobenzene	<	7.4	UG/KG	07/03/12	8260CM	
1,3-Dichlorobenzene	<	7.4	UG/KG	07/03/12	8260CM	
1,4-Dichlorobenzene	<	7.4	UG/KG	07/03/12	8260CM	
1,2-Dibromo-3-chloropropane	<	7.4	UG/KG	07/03/12	8260CM	
1,2,4-Trichlorobenzene	J <	7.4	UG/KG	07/03/12	8260CM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
4-BROMOFLUOROBENZENE		86
1,2-DICHLOROBENZENE-D4		105
MTBE-D3		93

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NO ANALYTES DETECTED ABOVE THE

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#3; UNION VALLEY RD

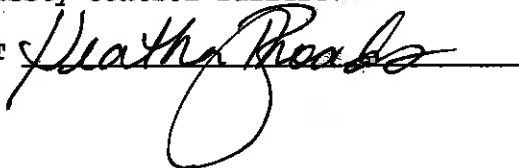
SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Heather Rhoads (8260CM), (NA) Not analyzed; (J) The associated value is an estimated quantity due to (QCF) Quality Control failure.

* ANALYST



Sample Number: 519624
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1307
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/12/2012

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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		0.98		07/02/12		
1,1-Dichloropropene		< 9.8	UG/KG	07/02/12	8260CM	
Bromomethane	J	< 9.8	UG/KG	07/02/12	8260CM	
Chloromethane	J	< 9.8	UG/KG	07/02/12	8260CM	
2-Chlorotoluene		< 9.8	UG/KG	07/02/12	8260CM	
1,1,1,2-Tetrachloroethane		< 9.8	UG/KG	07/02/12	8260CM	
1,2,3-Trichloropropane		< 9.8	UG/KG	07/02/12	8260CM	
m- & p-Xylene		< 19.6	UG/KG	07/02/12	8260CM	
2,2-Dichloropropane		< 9.8	UG/KG	07/02/12	8260CM	
2-Butanone	J	< 9.8	UG/KG	07/02/12	8260CM	
p-Isopropyltoluene		< 9.8	UG/KG	07/02/12	8260CM	
Benzene		< 9.8	UG/KG	07/02/12	8260CM	
Bromoform		< 9.8	UG/KG	07/02/12	8260CM	
Carbon tetrachloride		< 9.8	UG/KG	07/02/12	8260CM	
Chlorobenzene		< 9.8	UG/KG	07/02/12	8260CM	
Dibromochloromethane		< 9.8	UG/KG	07/02/12	8260CM	
Chloroethane	J	< 9.8	UG/KG	07/02/12	8260CM	
Chloroform		< 9.8	UG/KG	07/02/12	8260CM	
Bromodichloromethane		< 9.8	UG/KG	07/02/12	8260CM	
Ethylbenzene		< 9.8	UG/KG	07/02/12	8260CM	
Methylene chloride		< 9.8	UG/KG	07/02/12	8260CM	
Naphthalene		< 9.8	UG/KG	07/02/12	8260CM	
Tetrachloroethene		< 9.8	UG/KG	07/02/12	8260CM	
Toluene		< 9.8	UG/KG	07/02/12	8260CM	
Trichloroethene		< 9.8	UG/KG	07/02/12	8260CM	
Vinyl chloride	J	< 9.8	UG/KG	07/02/12	8260CM	
1,1-Dichloroethane		< 9.8	UG/KG	07/02/12	8260CM	
1,1-Dichloroethene		< 9.8	UG/KG	07/02/12	8260CM	
1,1,1-Trichloroethane		< 9.8	UG/KG	07/02/12	8260CM	
1,1,2-Trichloroethane		< 9.8	UG/KG	07/02/12	8260CM	
1,1,2,2-Tetrachloroethane		< 9.8	UG/KG	07/02/12	8260CM	
1,2-Dichloroethane		< 9.8	UG/KG	07/02/12	8260CM	
1,2-Dichloropropane		< 9.8	UG/KG	07/02/12	8260CM	

Sample Number: 519624
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1307
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
 Collected By: BM
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 Report Date: 7/12/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
trans-1,2-Dichloroethene	<	9.8	UG/KG	07/02/12	8260CM	
1,3-Dichloropropane	<	9.8	UG/KG	07/02/12	8260CM	
trans-1,3-Dichloropropene	<	9.8	UG/KG	07/02/12	8260CM	
cis-1,3-Dichloropropene	<	9.8	UG/KG	07/02/12	8260CM	
1,4-Dioxane	NA		UG/KG	07/02/12		
Total Xylenes	<	19.6	UG/KG	07/02/12	8260CM	
Hexachlorobutadiene	<	9.8	UG/KG	07/02/12	8260CM	
Acetone	J	<	9.8	UG/KG	07/02/12	8260CM
2-Hexanone	<	9.8	UG/KG	07/02/12	8260CM	
Styrene	<	9.8	UG/KG	07/02/12	8260CM	
Carbon disulfide	<	9.8	UG/KG	07/02/12	8260CM	
4-Methyl-2-Pentanone	<	9.8	UG/KG	07/02/12	8260CM	
o-Xylene	<	9.8	UG/KG	07/02/12	8260CM	
n-Butylbenzene	<	9.8	UG/KG	07/02/12	8260CM	
sec-Butylbenzene	<	9.8	UG/KG	07/02/12	8260CM	
tert-Butylbenzene	<	9.8	UG/KG	07/02/12	8260CM	
Bromobenzene	<	9.8	UG/KG	07/02/12	8260CM	
Bromchloromethane	<	9.8	UG/KG	07/02/12	8260CM	
1,2,4-Trimethylbenzene	<	9.8	UG/KG	07/02/12	8260CM	
1,3,5-Trimethylbenzene	<	9.8	UG/KG	07/02/12	8260CM	
Dibromomethane	<	9.8	UG/KG	07/02/12	8260CM	
n-Propylbenzene	<	9.8	UG/KG	07/02/12	8260CM	
4-Chlorotoluene	<	9.8	UG/KG	07/02/12	8260CM	
1,2,3-Trichlorobenzene	J	<	9.8	UG/KG	07/02/12	8260CM
% Moisture - GC/MS Lab		19.8	%	07/02/12	1005 M	
Dichlorodifluoromethane	J	<	9.8	UG/KG	07/02/12	8260CM
Trichlorofluoromethane	<	9.8	UG/KG	07/02/12	8260CM	
Methyl tert-butyl ether (MTBE)	<	9.8	UG/KG	07/02/12	8260CM	
cis-1,2-Dichloroethene	<	9.8	UG/KG	07/02/12	8260CM	
Cyclohexane	<	9.8	UG/KG	07/02/12	8260CM	
Methylcyclohexane	<	9.8	UG/KG	07/02/12	8260CM	
1,2-Dibromoethane	<	9.8	UG/KG	07/02/12	8260CM	
Isopropylbenzene	<	9.8	UG/KG	07/02/12	8260CM	

Sample Number: 519624
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1307
Date Received: 6/22/2012
Date Completed: 07/11/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 7/12/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
1,2-Dichlorobenzene	<	9.8	UG/KG	07/02/12	8260CM	
1,3-Dichlorobenzene	<	9.8	UG/KG	07/02/12	8260CM	
1,4-Dichlorobenzene	<	9.8	UG/KG	07/02/12	8260CM	
1,2-Dibromo-3-chloropropane	<	9.8	UG/KG	07/02/12	8260CM	
1,2,4-Trichlorobenzene	J <	9.8	UG/KG	07/02/12	8260CM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
4-BROMOFLUOROBENZENE		93
1,2-DICHLOROBENZENE-D4		97
MTBE-D3		103

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NO ANALYTES DETECTED ABOVE MQL

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#4; HWY 32

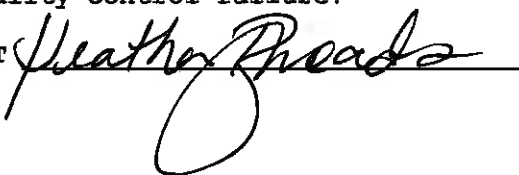
SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.9

ANALYST'S COMMENTS:

Heather Rhoads (8260CM), (NA) Not analyzed; (J) The associated value is an estimated quantity due to (QCF) Quality Control failure.

* ANALYST



Sample Number: 519625
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1845
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/11/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		1.18		07/02/12		
1,1-Dichloropropene		< 11.8	UG/KG	07/02/12	8260CM	
Bromomethane	J	< 11.8	UG/KG	07/02/12	8260CM	
Chloromethane	J	< 11.8	UG/KG	07/02/12	8260CM	
2-Chlorotoluene		< 11.8	UG/KG	07/02/12	8260CM	
1,1,1,2-Tetrachloroethane		< 11.8	UG/KG	07/02/12	8260CM	
1,2,3-Trichloropropane		< 11.8	UG/KG	07/02/12	8260CM	
m- & p-Xylene		< 23.6	UG/KG	07/02/12	8260CM	
2,2-Dichloropropane		< 11.8	UG/KG	07/02/12	8260CM	
2-Butanone	J	< 11.8	UG/KG	07/02/12	8260CM	
p-Isopropyltoluene		< 11.8	UG/KG	07/02/12	8260CM	
Benzene		< 11.8	UG/KG	07/02/12	8260CM	
Bromoform		< 11.8	UG/KG	07/02/12	8260CM	
Carbon tetrachloride		< 11.8	UG/KG	07/02/12	8260CM	
Chlorobenzene		< 11.8	UG/KG	07/02/12	8260CM	
Dibromochloromethane		< 11.8	UG/KG	07/02/12	8260CM	
Chloroethane	J	< 11.8	UG/KG	07/02/12	8260CM	
Chloroform		< 11.8	UG/KG	07/02/12	8260CM	
Bromodichloromethane		< 11.8	UG/KG	07/02/12	8260CM	
Ethylbenzene		< 11.8	UG/KG	07/02/12	8260CM	
Methylene chloride		< 11.8	UG/KG	07/02/12	8260CM	
Naphthalene		< 11.8	UG/KG	07/02/12	8260CM	
Tetrachloroethene		< 11.8	UG/KG	07/02/12	8260CM	
Toluene		< 11.8	UG/KG	07/02/12	8260CM	
Trichloroethene		< 11.8	UG/KG	07/02/12	8260CM	
Vinyl chloride	J	< 11.8	UG/KG	07/02/12	8260CM	
1,1-Dichloroethane		< 11.8	UG/KG	07/02/12	8260CM	
1,1-Dichloroethene		< 11.8	UG/KG	07/02/12	8260CM	
1,1,1-Trichloroethane		< 11.8	UG/KG	07/02/12	8260CM	
1,1,2-Trichloroethane		< 11.8	UG/KG	07/02/12	8260CM	
1,1,2,2-Tetrachloroethane		< 11.8	UG/KG	07/02/12	8260CM	
1,2-Dichloroethane		< 11.8	UG/KG	07/02/12	8260CM	
1,2-Dichloropropane		< 11.8	UG/KG	07/02/12	8260CM	

Sample Number: 519625
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1845
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/11/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
trans-1,2-Dichloroethene	<	11.8	UG/KG	07/02/12	8260CM	
1,3-Dichloropropane	<	11.8	UG/KG	07/02/12	8260CM	
trans-1,3-Dichloropropene	<	11.8	UG/KG	07/02/12	8260CM	
cis-1,3-Dichloropropene	<	11.8	UG/KG	07/02/12	8260CM	
1,4-Dioxane	NA		UG/KG	07/02/12		
Total Xylenes	<	23.6	UG/KG	07/02/12	8260CM	
Hexachlorobutadiene	<	11.8	UG/KG	07/02/12	8260CM	
Acetone	J	<	11.8	UG/KG	07/02/12	8260CM
2-Hexanone	<	11.8	UG/KG	07/02/12	8260CM	
Styrene	<	11.8	UG/KG	07/02/12	8260CM	
Carbon disulfide	<	11.8	UG/KG	07/02/12	8260CM	
4-Methyl-2-Pentanone	<	11.8	UG/KG	07/02/12	8260CM	
o-Xylene	<	11.8	UG/KG	07/02/12	8260CM	
n-Butylbenzene	<	11.8	UG/KG	07/02/12	8260CM	
sec-Butylbenzene	<	11.8	UG/KG	07/02/12	8260CM	
tert-Butylbenzene	<	11.8	UG/KG	07/02/12	8260CM	
Bromobenzene	<	11.8	UG/KG	07/02/12	8260CM	
Bromchloromethane	<	11.8	UG/KG	07/02/12	8260CM	
1,2,4-Trimethylbenzene	<	11.8	UG/KG	07/02/12	8260CM	
1,3,5-Trimethylbenzene	<	11.8	UG/KG	07/02/12	8260CM	
Dibromomethane	<	11.8	UG/KG	07/02/12	8260CM	
n-Propylbenzene	<	11.8	UG/KG	07/02/12	8260CM	
4-Chlorotoluene	<	11.8	UG/KG	07/02/12	8260CM	
1,2,3-Trichlorobenzene	J	<	11.8	UG/KG	07/02/12	8260CM
% Moisture - GC/MS Lab		29.8	%	07/02/12	1005 M	
Dichlorodifluoromethane	J	<	11.8	UG/KG	07/02/12	8260CM
Trichlorofluoromethane	<	11.8	UG/KG	07/02/12	8260CM	
Methyl tert-butyl ether (MTBE)	<	11.8	UG/KG	07/02/12	8260CM	
cis-1,2-Dichloroethene	<	11.8	UG/KG	07/02/12	8260CM	
Cyclohexane	<	11.8	UG/KG	07/02/12	8260CM	
Methylcyclohexane	<	11.8	UG/KG	07/02/12	8260CM	
1,2-Dibromoethane	<	11.8	UG/KG	07/02/12	8260CM	
Isopropylbenzene	<	11.8	UG/KG	07/02/12	8260CM	

Sample Number: 519625
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1845
Date Received: 6/22/2012
Date Completed: 07/11/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 7/11/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
1,2-Dichlorobenzene	<	11.8	UG/KG	07/02/12	8260CM	
1,3-Dichlorobenzene	<	11.8	UG/KG	07/02/12	8260CM	
1,4-Dichlorobenzene	<	11.8	UG/KG	07/02/12	8260CM	
1,2-Dibromo-3-chloropropane	<	11.8	UG/KG	07/02/12	8260CM	
1,2,4-Trichlorobenzene	J <	11.8	UG/KG	07/02/12	8260CM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
MTBE-D3		97
1,2-DICHLOROBENZENE-D4		103
4-BROMOFLUOROBENZENE		92

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NO ANALYTES DETECTED ABOVE MQL

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#5; BUB WILE

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Heather Rhoads (8260CM), (NA) Not analyzed; (J) The associated value is an estimated quantity due to (QCF) Quality Control failure.

*

* ANALYST

Heather Rhoads

Sample Number: 519626
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/20/2012
 Time Collected: 1840
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		40.7				
Acenaphthylene	<	410	UG/KG	07/09/12	8270DM	
Acenaphthene	<	410	UG/KG	07/09/12	8270DM	
Anthracene	<	410	UG/KG	07/09/12	8270DM	
Benzo(b)fluoranthene	<	410	UG/KG	07/09/12	8270DM	
Benzo(k)fluoranthene	<	410	UG/KG	07/09/12	8270DM	
Benzo(a)pyrene	<	410	UG/KG	07/09/12	8270DM	
Bis(2-chloroethyl)ether	<	410	UG/KG	07/09/12	8270DM	
Bis(2-chloroethoxy)methane	<	410	UG/KG	07/09/12	8270DM	
Bis(2-chloroisopropyl)ether	<	410	UG/KG	07/09/12	8270DM	
Butylbenzylphthalate	<	410	UG/KG	07/09/12	8270DM	
Chrysene	<	410	UG/KG	07/09/12	8270DM	
Diethylphthalate	<	410	UG/KG	07/09/12	8270DM	
Dimethylphthalate	<	410	UG/KG	07/09/12	8270DM	
Fluoranthene	<	410	UG/KG	07/09/12	8270DM	
Fluorene	<	410	UG/KG	07/09/12	8270DM	
Hexachlorocyclopentadiene	MI <	410	UG/KG	07/09/12	8270DM	
Hexachloroethane	<	410	UG/KG	07/09/12	8270DM	
Indeno(123cd)pyrene	<	410	UG/KG	07/09/12	8270DM	
Isophorone	<	410	UG/KG	07/09/12	8270DM	
Nitrosodipropylamine	<	410	UG/KG	07/09/12	8270DM	
Nitrosodiphenylamine	<	410	UG/KG	07/09/12	8270DM	
Naphthalene	<	410	UG/KG	07/09/12	8270DM	
Nitrobenzene	<	410	UG/KG	07/09/12	8270DM	
p-Chloro-m-cresol	<	410	UG/KG	07/09/12	8270DM	
Phenanthrene	<	410	UG/KG	07/09/12	8270DM	
Pyrene	<	410	UG/KG	07/09/12	8270DM	
Benzo(ghi)perylene	<	410	UG/KG	07/09/12	8270DM	
Benzo(a)anthracene	MI <	410	UG/KG	07/09/12	8270DM	
Dibenzo(ah)anthracene	<	410	UG/KG	07/09/12	8270DM	
2-Chloronaphthalene	<	410	UG/KG	07/09/12	8270DM	
2-Chlorophenol	<	410	UG/KG	07/09/12	8270DM	
2-Nitrophenol	<	410	UG/KG	07/09/12	8270DM	

Sample Number: 519626
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/20/2012
 Time Collected: 1840
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or sels.ok.gov

Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	410	UG/KG	07/09/12	8270DM	
2,4-Dichlorophenol	<	410	UG/KG	07/09/12	8270DM	
2,4-Dimethylphenol	<	410	UG/KG	07/09/12	8270DM	
2,4-Dinitrotoluene	<	410	UG/KG	07/09/12	8270DM	
2,4-Dinitrophenol	MI <	1000	UG/KG	07/09/12	8270DM	
2,4,6-Trichlorophenol	<	410	UG/KG	07/09/12	8270DM	
2,6-Dinitrotoluene	<	410	UG/KG	07/09/12	8270DM	
3,3'-Dichlorobenzidine	<	410	UG/KG	07/09/12	8270DM	
4-Bromophenylphenyl ether	<	410	UG/KG	07/09/12	8270DM	
4-Chlorophenyl phenylether	<	410	UG/KG	07/09/12	8270DM	
4-Nitrophenol	<	1000	UG/KG	07/09/12	8270DM	
4,6-Dinitro-o-cresol	<	1000	UG/KG	07/09/12	8270DM	
Phenol	<	410	UG/KG	07/09/12	8270DM	
Pentachlorophenol	<	1000	UG/KG	07/09/12	8270DM	
Bis(2-ethylhexyl)phthalate	<	410	UG/KG	07/09/12	8270DM	
Di-n-butylphthalate	<	410	UG/KG	07/09/12	8270DM	
Hexachlorobenzene	<	410	UG/KG	07/09/12	8270DM	
Hexachlorobutadiene	<	410	UG/KG	07/09/12	8270DM	
Dibenzofuran	<	410	UG/KG	07/09/12	8270DM	
2-Methylphenol	<	410	UG/KG	07/09/12	8270DM	
4-Methylphenol	<	410	UG/KG	07/09/12	8270DM	
2,4,5-Trichlorophenol	<	410	UG/KG	07/09/12	8270DM	
4-Chloroaniline	<	410	UG/KG	07/09/12	8270DM	
2-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
3-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
4-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
2-Methylnaphthalene	<	410	UG/KG	07/09/12	8270DM	
% Moisture - GC/MS Lab		19.	%	07/09/12	CLP 04.2	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2,4,6-TRIBROMOPHENOL		74
2-FLUOROBIPHENYL		55
NITROBENZENE-D5		56

Sample Number: 519626
Project Code: RR-BLP
Agency Number:
Date Collected: 6/20/2012
Time Collected: 1840
Date Received: 6/22/2012
Date Completed: 07/17/2012
Collected By: BM
PWS Id:
Location Code:
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Report of Analysis by GCMS
EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
P-TERPHENYL-D14		64
2-FLUOROPHENOL		47
PHENOL-D5		53

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NOT ANALYZED

Summary

Labs performing analysis on this Sample:
Metals GCMS

SOURCE: UNNAMED TEXAS TRIBUT

SAMPLERS COMMENTS:
#1; FARM RD 2849

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.5

ANALYST'S COMMENTS:
Analyst: Cassandra Kontas
At minimum, quality control samples associated with this analysis include: a negative control, a positive control, a field sample fortified with target analytes, and a duplicate. (NJ) The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentrations. (MI) Matrix interference. Components of the sample other than the analyte may have affected the accuracy or precision of the associated numerical value that represents the concentration of the analyte in this sample analysis.

* ANALYST Cassandra Kontas

Sample Number: 519626
Project Code: RR-BLP
Agency Number:
Date Collected: 6/20/2012
Time Collected: 1840
Date Received: 6/22/2012
Date Completed: 07/17/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 7/17/2012

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Report of Analysis by Metals
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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Sediment	<	10.0	MG/KG	07/12/12	6010	
Barium, Sediment		48.7	MG/KG	07/12/12	6010	
Beryllium, Sediment	<	2.00	MG/KG	07/12/12	6010	
Cadmium, Sediment	<	5.00	MG/KG	07/12/12	6010	
Chromium, Sediment		10.0	MG/KG	07/12/12	6010	
Cobalt, Sediment	<	5.00	MG/KG	07/12/12	6010	
Copper, Sediment	<	5.00	MG/KG	07/12/12	6010	
Lead, Sediment	<	10.0	MG/KG	07/12/12	6010	
Manganese, Sediment		347	MG/KG	07/12/12	6010	
Molybdenum, Sediment	<	5.00	MG/KG	07/12/12	6010	
Nickel, Sediment	<	10.0	MG/KG	07/12/12	6010	
Silver, Sediment		7.80	MG/KG	07/12/12	6010	
Strontium, Sediment		22.4	MG/KG	07/12/12	6010	
Zinc, Sediment		17.1	MG/KG	07/12/12	6010	
Antimony, Sediment	<	10.0	MG/KG	07/12/12	6010	
Aluminum, Sediment		4490	MG/KG	07/12/12	6010	
Selenium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Titanium, Sediment		60.0	MG/KG	07/12/12	6010	
Vanadium, Sediment		19.6	MG/KG	07/12/12	6010	
Thallium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Mercury, Sediment	<	0.25	MG/KG	06/29/12	6020	
% Solids		82.1	%	06/29/12	CLP 05.3	

Summary

Labs performing analysis on this Sample:

Metals GCMS

Sample Number: 519626
Project Code: RR-BLP
Agency Number:
Date Collected: 6/20/2012
Time Collected: 1840
Date Received: 6/22/2012
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CC: Ferrella March/LPD

SOURCE: UNNAMED TEXAS TRIBUT

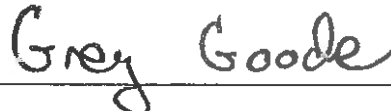
SAMPLERS COMMENTS:
#1; FARM RD 2849

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.5

ANALYST'S COMMENTS:

*

* ANALYST



Greg Goode
State Environmental Laboratory

Sample Number: 519627
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1022
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
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 Report Date: 7/17/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		50.8				
Acenaphthylene	UJ <	510	UG/KG	07/11/12	8270DM	
Acenaphthene	UJ <	510	UG/KG	07/11/12	8270DM	
Anthracene	UJ <	510	UG/KG	07/11/12	8270DM	
Benzo(b)fluoranthene	UJ <	510	UG/KG	07/11/12	8270DM	
Benzo(k)fluoranthene	UJ <	510	UG/KG	07/11/12	8270DM	
Benzo(a)pyrene	UJ <	510	UG/KG	07/11/12	8270DM	
Bis(2-chloroethyl)ether	UJ <	510	UG/KG	07/11/12	8270DM	
Bis(2-chloroethoxy)methane	UJ <	510	UG/KG	07/11/12	8270DM	
Bis(2-chloroisopropyl)ethe	UJ <	510	UG/KG	07/11/12	8270DM	
Butylbenzylphthalate	UJ <	510	UG/KG	07/11/12	8270DM	
Chrysene	UJ <	510	UG/KG	07/11/12	8270DM	
Diethylphthalate	UJ <	510	UG/KG	07/11/12	8270DM	
Dimethylphthalate	UJ <	510	UG/KG	07/11/12	8270DM	
Fluoranthene	UJ <	510	UG/KG	07/11/12	8270DM	
Fluorene	UJ <	510	UG/KG	07/11/12	8270DM	
Hexachlorocyclopentadiene	UJ <	510	UG/KG	07/11/12	8270DM	
Hexachloroethane	UJ <	510	UG/KG	07/11/12	8270DM	
Indeno(123cd)pyrene	UJ <	510	UG/KG	07/11/12	8270DM	
Isophorone	UJ <	510	UG/KG	07/11/12	8270DM	
Nitrosodipropylamine	UJ <	510	UG/KG	07/11/12	8270DM	
Nitrosodiphenylamine	UJ <	510	UG/KG	07/11/12	8270DM	
Naphthalene	UJ <	510	UG/KG	07/11/12	8270DM	
Nitrobenzene	UJ <	510	UG/KG	07/11/12	8270DM	
p-Chloro-m-cresol	UJ <	510	UG/KG	07/11/12	8270DM	
Phenanthrene	UJ <	510	UG/KG	07/11/12	8270DM	
Pyrene	UJ <	510	UG/KG	07/11/12	8270DM	
Benzo(ghi)perylene	UJ <	510	UG/KG	07/11/12	8270DM	
Benzo(a)anthracene	UJ <	510	UG/KG	07/11/12	8270DM	
Dibenzo(ah)anthracene	UJ <	510	UG/KG	07/11/12	8270DM	
2-Chloronaphthalene	UJ <	510	UG/KG	07/11/12	8270DM	
2-Chlorophenol	UJ <	510	UG/KG	07/11/12	8270DM	
2-Nitrophenol	UJ <	510	UG/KG	07/11/12	8270DM	

Sample Number: 519627
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1022
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Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier		Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	UJ	<	510	UG/KG	07/11/12	8270DM	
2,4-Dichlorophenol	UJ	<	510	UG/KG	07/11/12	8270DM	
2,4-Dimethylphenol	UJ	<	510	UG/KG	07/11/12	8270DM	
2,4-Dinitrotoluene	UJ	<	510	UG/KG	07/11/12	8270DM	
2,4-Dinitrophenol	UJ	<	1300	UG/KG	07/11/12	8270DM	
2,4,6-Trichlorophenol	UJ	<	510	UG/KG	07/11/12	8270DM	
2,6-Dinitrotoluene	UJ	<	510	UG/KG	07/11/12	8270DM	
3,3'-Dichlorobenzidine	UJ	<	510	UG/KG	07/11/12	8270DM	
4-Bromophenylphenyl ether	UJ	<	510	UG/KG	07/11/12	8270DM	
4-Chlorophenyl phenylether	UJ	<	510	UG/KG	07/11/12	8270DM	
4-Nitrophenol	UJ	<	1300	UG/KG	07/11/12	8270DM	
4,6-Dinitro-o-cresol	UJ	<	1300	UG/KG	07/11/12	8270DM	
Phenol	UJ	<	510	UG/KG	07/11/12	8270DM	
Pentachlorophenol	UJ	<	1300	UG/KG	07/11/12	8270DM	
Bis(2-ethylhexyl)phthalate	UJ	<	510	UG/KG	07/11/12	8270DM	
Di-n-butylphthalate	UJ	<	510	UG/KG	07/11/12	8270DM	
Hexachlorobenzene	UJ	<	510	UG/KG	07/11/12	8270DM	
Hexachlorobutadiene	UJ	<	510	UG/KG	07/11/12	8270DM	
Dibenzofuran	UJ	<	510	UG/KG	07/11/12	8270DM	
2-Methylphenol	UJ	<	510	UG/KG	07/11/12	8270DM	
4-Methylphenol	UJ	<	510	UG/KG	07/11/12	8270DM	
2,4,5-Trichlorophenol	UJ	<	510	UG/KG	07/11/12	8270DM	
4-Chloroaniline	UJ	<	510	UG/KG	07/11/12	8270DM	
2-Nitroaniline	UJ	<	1300	UG/KG	07/11/12	8270DM	
3-Nitroaniline	UJ	<	1300	UG/KG	07/11/12	8270DM	
4-Nitroaniline	UJ	<	1300	UG/KG	07/11/12	8270DM	
2-Methylnaphthalene	UJ	<	510	UG/KG	07/11/12	8270DM	
% Moisture - GC/MS Lab			35.	%	07/11/12	CLP 04.2	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
P-TERPHENYL-D14		67
2-FLUOROBIPHENYL		52
2,4,6-TRIBROMOPHENOL		74

Sample Number: 519627
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1022
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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		50
NITROBENZENE-D5		54
2-FLUOROPHENOL		45

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
gamma-Sitosterol		760	µg/kg
Tetradecanoic acid, hexadecyl e		630	µg/kg

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#2; CO RD 2940

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 6.6

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

At minimum, quality control samples associated with this analysis include: a negative control, a positive control, a field sample fortified with target analytes, and a duplicate. (NJ) The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentrations. Due to the sample temperature upon receipt being outside of method requirements of $4 \pm 2^\circ\text{C}$, non-detections were qualified as "UJ."

(UJ) The compound was analyzed for but was not detected at a level greater than or equal to the reporting limit for this sample analysis; however, the absence of detection may be inaccurate (due to certain quality control measures not meeting criteria).

* ANALYST

Cassandra Kontas

Sample Number: 519627
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1022
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
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 Facility:
 Report Date: 7/17/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Sediment	<	10.0	MG/KG	07/12/12	6010	
Barium, Sediment		101	MG/KG	07/12/12	6010	
Beryllium, Sediment	<	2.00	MG/KG	07/12/12	6010	
Cadmium, Sediment	<	5.00	MG/KG	07/12/12	6010	
Chromium, Sediment		25.6	MG/KG	07/12/12	6010	
Cobalt, Sediment		8.00	MG/KG	07/12/12	6010	
Copper, Sediment		12.0	MG/KG	07/12/12	6010	
Lead, Sediment		10.0	MG/KG	07/12/12	6010	
Manganese, Sediment		237	MG/KG	07/12/12	6010	
Molybdenum, Sediment	<	5.00	MG/KG	07/12/12	6010	
Nickel, Sediment		17.6	MG/KG	07/12/12	6010	
Silver, Sediment		11.1	MG/KG	07/12/12	6010	
Strontium, Sediment		57.0	MG/KG	07/12/12	6010	
Zinc, Sediment		57.9	MG/KG	07/12/12	6010	
Antimony, Sediment	<	10.0	MG/KG	07/12/12	6010	
Aluminum, Sediment		20400	MG/KG	07/12/12	6010	
Selenium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Titanium, Sediment		128	MG/KG	07/12/12	6010	
Vanadium, Sediment		45.1	MG/KG	07/12/12	6010	
Thallium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Mercury, Sediment	<	0.25	MG/KG	06/29/12	6020	
% Solids		64.7	%	06/29/12	CLP 05.3	

Summary

Labs performing analysis on this Sample:

Metals GCMS

Sample Number: 519627
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1022
Date Received: 6/22/2012
Date Completed: 07/17/2012
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CC: Ferrella March/LPD

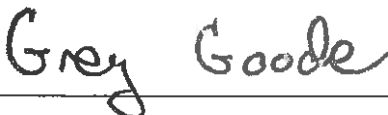
SOURCE: RED CREEK

SAMPLERS COMMENTS:
#2; CO RD 2940

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 6.6

ANALYST'S COMMENTS:

* ANALYST



Greg Goode
State Environmental Laboratory

Sample Number: 519628
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1133
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

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To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractabi		41.4				
Acenaphthylene	<	410	UG/KG	07/09/12	8270DM	
Acenaphthene	<	410	UG/KG	07/09/12	8270DM	
Anthracene	<	410	UG/KG	07/09/12	8270DM	
Benzo(b)fluoranthene	<	410	UG/KG	07/09/12	8270DM	
Benzo(k)fluoranthene	<	410	UG/KG	07/09/12	8270DM	
Benzo(a)pyrene	<	410	UG/KG	07/09/12	8270DM	
Bis(2-chloroethyl)ether	<	410	UG/KG	07/09/12	8270DM	
Bis(2-chloroethoxy)methane	<	410	UG/KG	07/09/12	8270DM	
Bis(2-chloroisopropyl)ethe	<	410	UG/KG	07/09/12	8270DM	
Butylbenzylphthalate	<	410	UG/KG	07/09/12	8270DM	
Chrysene	<	410	UG/KG	07/09/12	8270DM	
Diethylphthalate	<	410	UG/KG	07/09/12	8270DM	
Dimethylphthalate	<	410	UG/KG	07/09/12	8270DM	
Fluoranthene	<	410	UG/KG	07/09/12	8270DM	
Fluorene	<	410	UG/KG	07/09/12	8270DM	
Hexachlorocyclopentadiene	<	410	UG/KG	07/09/12	8270DM	
Hexachloroethane	<	410	UG/KG	07/09/12	8270DM	
Indeno(123cd)pyrene	<	410	UG/KG	07/09/12	8270DM	
Isophorone	<	410	UG/KG	07/09/12	8270DM	
Nitrosodipropylamine	<	410	UG/KG	07/09/12	8270DM	
Nitrosodiphenylamine	<	410	UG/KG	07/09/12	8270DM	
Naphthalene	<	410	UG/KG	07/09/12	8270DM	
Nitrobenzene	<	410	UG/KG	07/09/12	8270DM	
p-Chloro-m-cresol	<	410	UG/KG	07/09/12	8270DM	
Phenanthrene	<	410	UG/KG	07/09/12	8270DM	
Pyrene	<	410	UG/KG	07/09/12	8270DM	
Benzo(ghi)perylene	<	410	UG/KG	07/09/12	8270DM	
Benzo(a)anthracene	<	410	UG/KG	07/09/12	8270DM	
Dibenzo(ah)anthracene	<	410	UG/KG	07/09/12	8270DM	
2-Chloronaphthalene	<	410	UG/KG	07/09/12	8270DM	
2-Chlorophenol	<	410	UG/KG	07/09/12	8270DM	
2-Nitrophenol	<	410	UG/KG	07/09/12	8270DM	

Sample Number: 519628
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1133
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 FWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

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 EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	410	UG/KG	07/09/12	8270DM	
2,4-Dichlorophenol	<	410	UG/KG	07/09/12	8270DM	
2,4-Dimethylphenol	<	410	UG/KG	07/09/12	8270DM	
2,4-Dinitrotoluene	<	410	UG/KG	07/09/12	8270DM	
2,4-Dinitrophenol	<	1000	UG/KG	07/09/12	8270DM	
2,4,6-Trichlorophenol	<	410	UG/KG	07/09/12	8270DM	
2,6-Dinitrotoluene	<	410	UG/KG	07/09/12	8270DM	
3,3'-Dichlorobenzidine	<	410	UG/KG	07/09/12	8270DM	
4-Bromophenylphenyl ether	<	410	UG/KG	07/09/12	8270DM	
4-Chlorophenyl phenylether	<	410	UG/KG	07/09/12	8270DM	
4-Nitrophenol	<	1000	UG/KG	07/09/12	8270DM	
4,6-Dinitro-o-cresol	<	1000	UG/KG	07/09/12	8270DM	
Phenol	<	410	UG/KG	07/09/12	8270DM	
Pentachlorophenol	<	1000	UG/KG	07/09/12	8270DM	
Bis(2-ethylhexyl)phthalate	<	410	UG/KG	07/09/12	8270DM	
Di-n-butylphthalate	<	410	UG/KG	07/09/12	8270DM	
Hexachlorobenzene	<	410	UG/KG	07/09/12	8270DM	
Hexachlorobutadiene	<	410	UG/KG	07/09/12	8270DM	
Dibenzofuran	<	410	UG/KG	07/09/12	8270DM	
2-Methylphenol	<	410	UG/KG	07/09/12	8270DM	
4-Methylphenol	<	410	UG/KG	07/09/12	8270DM	
2,4,5-Trichlorophenol	<	410	UG/KG	07/09/12	8270DM	
4-Chloroaniline	<	410	UG/KG	07/09/12	8270DM	
2-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
3-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
4-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
2-Methylnaphthalene	<	410	UG/KG	07/09/12	8270DM	
% Moisture - GC/MS Lab		20.	%	07/09/12	CLP 04.2	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
NITROBENZENE-D5		55
2-FLUOROBIPHENYL		55
PHENOL-D5		52

Sample Number: 519628
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1133
Date Received: 6/22/2012
Date Completed: 07/17/2012
Collected By: BM
FWS Id:
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Report Date: 7/17/2012

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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2,4,6-TRIBROMOPHENOL		70
2-FLUOROPHENOL		48
P-TERPHENYL-D14		62

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
unknown sulfur compound		820	µg/kg
cyclic octaatomic sulfur		7100	µg/kg
Sulfur		1200	µg/kg

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#3; UNION VALLEY RD

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

At minimum, quality control samples associated with this analysis include: a negative control, a positive control, a field sample fortified with target analytes, and a duplicate. (NJ) The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentrations.

*

* ANALYST

Cassandra Kontas

Sample Number: 519628
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1133
Date Received: 6/22/2012
Date Completed: 07/17/2012
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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Sediment	<	10.0	MG/KG	07/12/12	6010	
Barium, Sediment		68.5	MG/KG	07/12/12	6010	
Beryllium, Sediment	<	2.00	MG/KG	07/12/12	6010	
Cadmium, Sediment	<	5.00	MG/KG	07/12/12	6010	
Chromium, Sediment		16.4	MG/KG	07/12/12	6010	
Cobalt, Sediment		5.90	MG/KG	07/12/12	6010	
Copper, Sediment		7.70	MG/KG	07/12/12	6010	
Lead, Sediment	<	10.0	MG/KG	07/12/12	6010	
Manganese, Sediment		313	MG/KG	07/12/12	6010	
Molybdenum, Sediment	<	5.00	MG/KG	07/12/12	6010	
Nickel, Sediment		11.3	MG/KG	07/12/12	6010	
Silver, Sediment		5.80	MG/KG	07/12/12	6010	
Strontium, Sediment		33.1	MG/KG	07/12/12	6010	
Zinc, Sediment		29.8	MG/KG	07/12/12	6010	
Antimony, Sediment	<	10.0	MG/KG	07/12/12	6010	
Aluminum, Sediment		9800	MG/KG	07/12/12	6010	
Selenium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Titanium, Sediment		50.0	MG/KG	07/12/12	6010	
Vanadium, Sediment		27.7	MG/KG	07/12/12	6010	
Thallium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Mercury, Sediment	<	0.25	MG/KG	06/29/12	6020	
% Solids		79.5	%	06/29/12	CLP 05.3	

Summary

Labs performing analysis on this Sample:

Metals GCMS

Sample Number: 519628
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1133
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CC: Ferrella March/LPD

SOURCE: RED CREEK

SAMPLERS COMMENTS:
#3; UNION VALLEY RD

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

*

* ANALYST

Greg Goode

Greg Goode
State Environmental Laboratory

Sample Number: 519629
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1307
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
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 Facility:
 Report Date: 7/17/2012

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		40.0				
Acenaphthylene	<	400	UG/KG	07/09/12	8270DM	
Acenaphthene	<	400	UG/KG	07/09/12	8270DM	
Anthracene	<	400	UG/KG	07/09/12	8270DM	
Benzo(b)fluoranthene	<	400	UG/KG	07/09/12	8270DM	
Benzo(k)fluoranthene	<	400	UG/KG	07/09/12	8270DM	
Benzo(a)pyrene	<	400	UG/KG	07/09/12	8270DM	
Bis(2-chloroethyl)ether	<	400	UG/KG	07/09/12	8270DM	
Bis(2-chloroethoxy)methane	<	400	UG/KG	07/09/12	8270DM	
Bis(2-chloroisopropyl)ether	<	400	UG/KG	07/09/12	8270DM	
Butylbenzylphthalate	<	400	UG/KG	07/09/12	8270DM	
Chrysene	<	400	UG/KG	07/09/12	8270DM	
Diethylphthalate	<	400	UG/KG	07/09/12	8270DM	
Dimethylphthalate	<	400	UG/KG	07/09/12	8270DM	
Fluoranthene	<	400	UG/KG	07/09/12	8270DM	
Fluorene	<	400	UG/KG	07/09/12	8270DM	
Hexachlorocyclopentadiene	<	400	UG/KG	07/09/12	8270DM	
Hexachloroethane	<	400	UG/KG	07/09/12	8270DM	
Indeno(123cd)pyrene	<	400	UG/KG	07/09/12	8270DM	
Isophorone	<	400	UG/KG	07/09/12	8270DM	
Nitrosodipropylamine	<	400	UG/KG	07/09/12	8270DM	
Nitrosodiphenylamine	<	400	UG/KG	07/09/12	8270DM	
Naphthalene	<	400	UG/KG	07/09/12	8270DM	
Nitrobenzene	<	400	UG/KG	07/09/12	8270DM	
p-Chloro-m-cresol	<	400	UG/KG	07/09/12	8270DM	
Phenanthrene	<	400	UG/KG	07/09/12	8270DM	
Pyrene	<	400	UG/KG	07/09/12	8270DM	
Benzo(ghi)perylene	<	400	UG/KG	07/09/12	8270DM	
Benzo(a)anthracene	<	400	UG/KG	07/09/12	8270DM	
Dibenzo(ah)anthracene	<	400	UG/KG	07/09/12	8270DM	
2-Chloronaphthalene	<	400	UG/KG	07/09/12	8270DM	
2-Chlorophenol	<	400	UG/KG	07/09/12	8270DM	
2-Nitrophenol	<	400	UG/KG	07/09/12	8270DM	

Sample Number: 519629
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1307
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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	400	UG/KG	07/09/12	8270DM	
2,4-Dichlorophenol	<	400	UG/KG	07/09/12	8270DM	
2,4-Dimethylphenol	<	400	UG/KG	07/09/12	8270DM	
2,4-Dinitrotoluene	<	400	UG/KG	07/09/12	8270DM	
2,4-Dinitrophenol	<	1000	UG/KG	07/09/12	8270DM	
2,4,6-Trichlorophenol	<	400	UG/KG	07/09/12	8270DM	
2,6-Dinitrotoluene	<	400	UG/KG	07/09/12	8270DM	
3,3'-Dichlorobenzidine	<	400	UG/KG	07/09/12	8270DM	
4-Bromophenylphenyl ether	<	400	UG/KG	07/09/12	8270DM	
4-Chlorophenyl phenylether	<	400	UG/KG	07/09/12	8270DM	
4-Nitrophenol	<	1000	UG/KG	07/09/12	8270DM	
4,6-Dinitro-o-cresol	<	1000	UG/KG	07/09/12	8270DM	
Phenol	<	400	UG/KG	07/09/12	8270DM	
Pentachlorophenol	<	1000	UG/KG	07/09/12	8270DM	
Bis(2-ethylhexyl)phthalate	<	400	UG/KG	07/09/12	8270DM	
Di-n-butylphthalate	<	400	UG/KG	07/09/12	8270DM	
Hexachlorobenzene	<	400	UG/KG	07/09/12	8270DM	
Hexachlorobutadiene	<	400	UG/KG	07/09/12	8270DM	
Dibenzofuran	<	400	UG/KG	07/09/12	8270DM	
2-Methylphenol	<	400	UG/KG	07/09/12	8270DM	
4-Methylphenol	<	400	UG/KG	07/09/12	8270DM	
2,4,5-Trichlorophenol	<	400	UG/KG	07/09/12	8270DM	
4-Chloroaniline	<	400	UG/KG	07/09/12	8270DM	
2-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
3-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
4-Nitroaniline	<	1000	UG/KG	07/09/12	8270DM	
2-Methylnaphthalene	<	400	UG/KG	07/09/12	8270DM	
Moisture - GC/MS Lab		17	%	07/09/12	CLP 04.2	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2,4,6-TRIBROMOPHENOL		71
P-TERPHENYL-D14		70
2-FLUOROBIPHENYL		56

Sample Number: 519629
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1307
Date Received: 6/22/2012
Date Completed: 07/17/2012
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Report Date: 7/17/2012

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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		51
NITROBENZENE-D5		58
2-FLUOROPHENOL		47

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:

#4; HWY 32

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 1.9

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

At minimum, quality control samples associated with this analysis include: a negative control, a positive control, a field sample fortified with target analytes, and a duplicate. (NU) The analysis indicates no 'tentatively identified' compounds present at equal to or above the reporting limit concentration for this sample and method.

* ANALYST

Cassandra Keras

Sample Number: 519629
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1307
Date Received: 6/22/2012
Date Completed: 07/17/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 7/17/2012

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EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Sediment	<	10.0	MG/KG	07/12/12	6010	
Barium, Sediment		32.8	MG/KG	07/12/12	6010	
Beryllium, Sediment	<	2.00	MG/KG	07/12/12	6010	
Cadmium , Sediment	<	5.00	MG/KG	07/12/12	6010	
Chromium, Sediment		5.90	MG/KG	07/12/12	6010	
Cobalt, Sediment		7.10	MG/KG	07/12/12	6010	
Copper, Sediment	<	5.00	MG/KG	07/12/12	6010	
Lead, Sediment		11.7	MG/KG	07/12/12	6010	
Manganese, Sediment		357	MG/KG	07/12/12	6010	
Molybdenum, Sediment	<	5.00	MG/KG	07/12/12	6010	
Nickel, Sediment		13.7	MG/KG	07/12/12	6010	
Silver, Sediment	<	2.00	MG/KG	07/12/12	6010	
Strontium, Sediment		3.50	MG/KG	07/12/12	6010	
Zinc, Sediment		11.7	MG/KG	07/12/12	6010	
Antimony, Sediment	<	10.0	MG/KG	07/12/12	6010	
Aluminum, Sediment		2100	MG/KG	07/12/12	6010	
Selenium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Titanium, Sediment		27.9	MG/KG	07/12/12	6010	
Vanadium, Sediment		14.2	MG/KG	07/12/12	6010	
Thallium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Mercury, Sediment	<	0.25	MG/KG	06/29/12	6020	
% Solids		82.2	%	06/29/12	CLP 05.3	

Summary

Labs performing analysis on this Sample:

Metals GCMS

Sample Number: 519629
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1307
Date Received: 6/22/2012
Date Completed: 07/17/2012
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CC: Ferrella March/LPD

SOURCE: RED CREEK

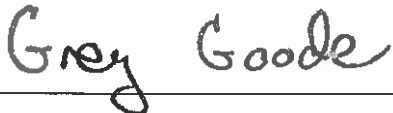
SAMPLERS COMMENTS:
#4; HWY 32

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 1.9

ANALYST'S COMMENTS:

*

* ANALYST



Greg Goode
State Environmental Laboratory

Sample Number: 519630
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1845
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		43.5				
Acenaphthylene	<	450	UG/KG	07/09/12	8270DM	
Acenaphthene	<	450	UG/KG	07/09/12	8270DM	
Anthracene	<	450	UG/KG	07/09/12	8270DM	
Benzo(b)fluoranthene	<	450	UG/KG	07/09/12	8270DM	
Benzo(k)fluoranthene	<	450	UG/KG	07/09/12	8270DM	
Benzo(a)pyrene	<	450	UG/KG	07/09/12	8270DM	
Bis(2-chloroethyl)ether	<	450	UG/KG	07/09/12	8270DM	
Bis(2-chloroethoxy)methane	<	450	UG/KG	07/09/12	8270DM	
Bis(2-chloroisopropyl)ethe	<	450	UG/KG	07/09/12	8270DM	
Butylbenzylphthalate	<	450	UG/KG	07/09/12	8270DM	
Chrysene	<	450	UG/KG	07/09/12	8270DM	
Diethylphthalate	<	450	UG/KG	07/09/12	8270DM	
Dimethylphthalate	<	450	UG/KG	07/09/12	8270DM	
Fluoranthene	<	450	UG/KG	07/09/12	8270DM	
Fluorene	<	450	UG/KG	07/09/12	8270DM	
Hexachlorocyclopentadiene	<	450	UG/KG	07/09/12	8270DM	
Hexachloroethane	<	450	UG/KG	07/09/12	8270DM	
Indeno(123cd)pyrene	<	450	UG/KG	07/09/12	8270DM	
Isophorone	<	450	UG/KG	07/09/12	8270DM	
Nitrosodipropylamine	<	450	UG/KG	07/09/12	8270DM	
Nitrosodiphenylamine	<	450	UG/KG	07/09/12	8270DM	
Naphthalene	<	450	UG/KG	07/09/12	8270DM	
Nitrobenzene	<	450	UG/KG	07/09/12	8270DM	
p-Chloro-m-cresol	<	450	UG/KG	07/09/12	8270DM	
Phenanthrene	<	450	UG/KG	07/09/12	8270DM	
Pyrene	<	450	UG/KG	07/09/12	8270DM	
Benzo(ghi)perylene	<	450	UG/KG	07/09/12	8270DM	
Benzo(a)anthracene	<	450	UG/KG	07/09/12	8270DM	
Dibenzo(ah)anthracene	<	450	UG/KG	07/09/12	8270DM	
2-Chloronaphthalene	<	450	UG/KG	07/09/12	8270DM	
2-Chlorophenol	<	450	UG/KG	07/09/12	8270DM	
2-Nitrophenol	<	450	UG/KG	07/09/12	8270DM	

Sample Number: 519630
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1845
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
707 N. ROBINSON
OKLAHOMA CITY
OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or sels.ok.gov

Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	450	UG/KG	07/09/12	8270DM	
2,4-Dichlorophenol	<	450	UG/KG	07/09/12	8270DM	
2,4-Dimethylphenol	<	450	UG/KG	07/09/12	8270DM	
2,4-Dinitrotoluene	<	450	UG/KG	07/09/12	8270DM	
2,4-Dinitrophenol	<	1100	UG/KG	07/09/12	8270DM	
2,4,6-Trichlorophenol	<	450	UG/KG	07/09/12	8270DM	
2,6-Dinitrotoluene	<	450	UG/KG	07/09/12	8270DM	
3,3'-Dichlorobenzidine	<	450	UG/KG	07/09/12	8270DM	
4-Bromophenylphenyl ether	<	450	UG/KG	07/09/12	8270DM	
4-Chlorophenyl phenylether	<	450	UG/KG	07/09/12	8270DM	
4-Nitrophenol	<	1100	UG/KG	07/09/12	8270DM	
4,6-Dinitro-o-cresol	<	1100	UG/KG	07/09/12	8270DM	
Phenol	<	450	UG/KG	07/09/12	8270DM	
Pentachlorophenol	<	1100	UG/KG	07/09/12	8270DM	
Bis(2-ethylhexyl)phthalate	<	450	UG/KG	07/09/12	8270DM	
Di-n-butylphthalate	<	450	UG/KG	07/09/12	8270DM	
Hexachlorobenzene	<	450	UG/KG	07/09/12	8270DM	
Hexachlorobutadiene	<	450	UG/KG	07/09/12	8270DM	
Dibenzofuran	<	450	UG/KG	07/09/12	8270DM	
2-Methylphenol	<	450	UG/KG	07/09/12	8270DM	
4-Methylphenol	<	450	UG/KG	07/09/12	8270DM	
2,4,5-Trichlorophenol	<	450	UG/KG	07/09/12	8270DM	
4-Chloroaniline	<	450	UG/KG	07/09/12	8270DM	
2-Nitroaniline	<	1100	UG/KG	07/09/12	8270DM	
3-Nitroaniline	<	1100	UG/KG	07/09/12	8270DM	
4-Nitroaniline	<	1100	UG/KG	07/09/12	8270DM	
2-Methylnaphthalene	<	450	UG/KG	07/09/12	8270DM	
% Moisture - GC/MS Lab		24.	%	07/09/12	CLP 04.2	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		61
NITROBENZENE-D5		65
2,4,6-TRIBROMOPHENOL		69

Sample Number: 519630
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1845
Date Received: 6/22/2012
Date Completed: 07/17/2012
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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
2-FLUOROBIPHENYL		62
P-TERPHENYL-D14		59
2-FLUOROPHENOL		56

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NU

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: RED CREEK

SAMPLERS COMMENTS:
#5; BUB WILE

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

At minimum, quality control samples associated with this analysis include: a negative control, a positive control, a field sample fortified with target analytes, and a duplicate. (NU) The analysis indicates no 'tentatively identified' compounds present at equal to or above the reporting limit concentration for this sample and method.

*

* ANALYST

Cassandra Kontas

Sample Number: 519630
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1845
Date Received: 6/22/2012
Date Completed: 07/17/2012
Collected By: BM
PWS Id:
Location Code:
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Report Date: 7/17/2012

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Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Sediment	<	10.0	MG/KG	07/12/12	6010	
Barium, Sediment		67.7	MG/KG	07/12/12	6010	
Beryllium, Sediment	<	2.00	MG/KG	07/12/12	6010	
Cadmium, Sediment	<	5.00	MG/KG	07/12/12	6010	
Chromium, Sediment		17.4	MG/KG	07/12/12	6010	
Cobalt, Sediment		6.70	MG/KG	07/12/12	6010	
Copper, Sediment		9.40	MG/KG	07/12/12	6010	
Lead, Sediment	<	10.0	MG/KG	07/12/12	6010	
Manganese, Sediment		334	MG/KG	07/12/12	6010	
Molybdenum, Sediment	<	5.00	MG/KG	07/12/12	6010	
Nickel, Sediment		12.9	MG/KG	07/12/12	6010	
Silver, Sediment		5.30	MG/KG	07/12/12	6010	
Strontium, Sediment		26.4	MG/KG	07/12/12	6010	
Zinc, Sediment		34.1	MG/KG	07/12/12	6010	
Antimony, Sediment	<	10.0	MG/KG	07/12/12	6010	
Aluminum, Sediment		11700	MG/KG	07/12/12	6010	
Selenium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Titanium, Sediment		73.9	MG/KG	07/12/12	6010	
Vanadium, Sediment		29.9	MG/KG	07/12/12	6010	
Thallium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Mercury, Sediment	<	0.25	MG/KG	06/29/12	6020	
% Solids		74.3	%	06/29/12	CLP 05.3	

Summary

Labs performing analysis on this Sample:

Metals GCMS

Sample Number: 519630
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
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Date Received: 6/22/2012
Date Completed: 07/17/2012
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Report of Analysis by Metals
EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

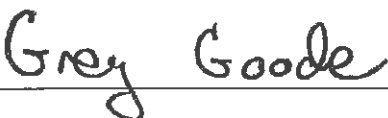
SOURCE: RED CREEK

SAMPLERS COMMENTS:
#5; BUB WILE

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.3

ANALYST`S COMMENTS:

* ANALYST


Greg Goode
State Environmental Laboratory

Sample Number: 519631
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1511
 Date Received: 6/22/2012
 Date Completed: 07/11/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/12/2012

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Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Purgeable:		216.9		07/06/12		
1,1-Dichloropropene		< 2169	UG/KG	07/06/12	8260CM	
Bromomethane	J	< 2169	UG/KG	07/06/12	8260CM	
Chloromethane		< 2169	UG/KG	07/06/12	8260CM	
2-Chlorotoluene		< 2169	UG/KG	07/06/12	8260CM	
1,1,1,2-Tetrachloroethane		< 2169	UG/KG	07/06/12	8260CM	
1,2,3-Trichloropropane		< 2169	UG/KG	07/06/12	8260CM	
m- & p-Xylene		< 2169	UG/KG	07/06/12	8260CM	
2,2-Dichloropropane		< 4338	UG/KG	07/06/12	8260CM	
2-Butanone	J	< 2169	UG/KG	07/06/12	8260CM	
p-Isopropyltoluene		< 2169	UG/KG	07/06/12	8260CM	
Benzene		< 2169	UG/KG	07/06/12	8260CM	
Bromoform		< 2169	UG/KG	07/06/12	8260CM	
Carbon tetrachloride		< 2169	UG/KG	07/06/12	8260CM	
Chlorobenzene		< 2169	UG/KG	07/06/12	8260CM	
Dibromochloromethane		< 2169	UG/KG	07/06/12	8260CM	
Chloroethane		< 2169	UG/KG	07/06/12	8260CM	
Chloroform		< 2169	UG/KG	07/06/12	8260CM	
Bromodichloromethane		< 2169	UG/KG	07/06/12	8260CM	
Ethylbenzene		< 2169	UG/KG	07/06/12	8260CM	
Methylene chloride		< 2169	UG/KG	07/06/12	8260CM	
Naphthalene	J	< 2169	UG/KG	07/06/12	8260CM	
Tetrachloroethene		< 2169	UG/KG	07/06/12	8260CM	
Toluene		< 2169	UG/KG	07/06/12	8260CM	
Trichloroethene		< 2169	UG/KG	07/06/12	8260CM	
Vinyl chloride		< 2169	UG/KG	07/06/12	8260CM	
1,1-Dichloroethane		< 2169	UG/KG	07/06/12	8260CM	
1,1-Dichloroethene		< 2169	UG/KG	07/06/12	8260CM	
1,1,1-Trichloroethane		< 2169	UG/KG	07/06/12	8260CM	
1,1,2-Trichloroethane		< 2169	UG/KG	07/06/12	8260CM	
1,1,2,2-Tetrachloroethane		< 2169	UG/KG	07/06/12	8260CM	
1,2-Dichloroethane		< 2169	UG/KG	07/06/12	8260CM	
1,2-Dichloropropane		< 2169	UG/KG	07/06/12	8260CM	

Sample Number: 519631
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1511
 Date Received: 6/22/2012
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 Collected By: BM
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EPA Drinking Water Certification #OK00013

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
trans-1,2-Dichloroethene	<	2169	UG/KG	07/06/12	8260CM	
1,3-Dichloropropane	<	2169	UG/KG	07/06/12	8260CM	
trans-1,3-Dichloropropene	<	2169	UG/KG	07/06/12	8260CM	
cis-1,3-Dichloropropene	<	2169	UG/KG	07/06/12	8260CM	
1,4-Dioxane	J <	21690	UG/KG	07/06/12	8260CM	
Total Xylenes	<	4338	UG/KG	07/06/12	8260CM	
Hexachlorobutadiene	<	2169	UG/KG	07/06/12	8260CM	
Acetone	J <	2169	UG/KG	07/06/12	8260CM	
2-Hexanone	J <	2169	UG/KG	07/06/12	8260CM	
Styrene	<	2169	UG/KG	07/06/12	8260CM	
Carbon disulfide	<	2169	UG/KG	07/06/12	8260CM	
4-Methyl-2-Pentanone	<	2169	UG/KG	07/06/12	8260CM	
o-Xylene	<	2169	UG/KG	07/06/12	8260CM	
n-Butylbenzene	<	2169	UG/KG	07/06/12	8260CM	
sec-Butylbenzene	<	2169	UG/KG	07/06/12	8260CM	
tert-Butylbenzene	<	2169	UG/KG	07/06/12	8260CM	
Bromobenzene	<	2169	UG/KG	07/06/12	8260CM	
Bromchloromethane	<	2169	UG/KG	07/06/12	8260CM	
1,2,4-Trimethylbenzene	<	2169	UG/KG	07/06/12	8260CM	
1,3,5-Trimethylbenzene	<	2169	UG/KG	07/06/12	8260CM	
Dibromomethane	<	2169	UG/KG	07/06/12	8260CM	
n-Propylbenzene	<	2169	UG/KG	07/06/12	8260CM	
4-Chlorotoluene	<	2169	UG/KG	07/06/12	8260CM	
1,2,3-Trichlorobenzene	<	2169	UG/KG	07/06/12	8260CM	
% Moisture - GC/MS Lab		33.4	%	07/06/12	1005 M	
Dichlorodifluoromethane	<	2169	UG/KG	07/06/12	8260CM	
Trichlorofluoromethane	<	2169	UG/KG	07/06/12	8260CM	
Methyl tert-butyl ether (MTBE)	<	2169	UG/KG	07/06/12	8260CM	
cis-1,2-Dichloroethene	<	2169	UG/KG	07/06/12	8260CM	
Cyclohexane	<	2169	UG/KG	07/06/12	8260CM	
Methylcyclohexane	<	2169	UG/KG	07/06/12	8260CM	
1,2-Dibromoethane	<	2169	UG/KG	07/06/12	8260CM	
Isopropylbenzene	<	2169	UG/KG	07/06/12	8260CM	

Sample Number: 519631
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1511
Date Received: 6/22/2012
Date Completed: 07/11/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 7/12/2012

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STATE ENVIRONMENTAL LABORATORY
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OKLAHOMA, 73102-6010
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EPA Drinking Water Certification #OK00013

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CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
1,2-Dichlorobenzene	<	2169	UG/KG	07/06/12	8260CM	
1,3-Dichlorobenzene	<	2169	UG/KG	07/06/12	8260CM	
1,4-Dichlorobenzene	<	2169	UG/KG	07/06/12	8260CM	
1,2-Dibromo-3-chloropropane	<	2169	UG/KG	07/06/12	8260CM	
1,2,4-Trichlorobenzene	<	2169	UG/KG	07/06/12	8260CM	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
MTBE-D3		107
1,2-DICHLOROBENZENE-D4		95
4-BROMOFLUOROBENZENE		84

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NO ANALYTES DETECTED ABOVE MQL

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: UNIDENTIFIED POOLED

SAMPLERS COMMENTS:
BARRETT

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Heather Rhoads (8260CM),

(J) The associated value is an estimated quantity due to (QCF) Quality Control failure. Sample had a methanol dilution due to matrix interference shown when running the sample under normal soil conditions.

* ANALYST



Sample Number: 519632
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1511
 Date Received: 6/22/2012
 Date Completed: 06/29/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 6/29/2012

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

To: File Copy

CC: Ferrella March/LPD

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

Sample Number: 519632
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1511
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 Collected By: BM
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 Report Date: 6/29/2012

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 Sample Receiving: (405) 702-1113
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To: File Copy

CC: Ferrella March/LPD

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

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
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NOT ANALYZED

Sample Number: 519632
Project Code: RR-BLP
Agency Number:
Date Collected: 6/21/2012
Time Collected: 1511
Date Received: 6/22/2012
Date Completed: 06/29/2012
Collected By: BM
PWS Id:
Location Code:
Station:
Facility:
Report Date: 6/29/2012

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

To: File Copy

CC: Ferrella March/LPD

Summary

Labs performing analysis on this Sample:

GCMS

SOURCE: UNIDENTIFIED POOLED

SAMPLERS COMMENTS:

SUBSTANCE BARRETT

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

(LA) Lab accident. There were no replicate containers of the sample with which to attempt re-extraction.

* ANALYST

Cassandra Kontas

Sample Number: 519672
 Project Code: RR-BLP
 Agency Number:
 Date Collected: 6/21/2012
 Time Collected: 1517
 Date Received: 6/22/2012
 Date Completed: 07/17/2012
 Collected By: BM
 PWS Id:
 Location Code:
 Station:
 Facility:
 Report Date: 7/17/2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE ENVIRONMENTAL LABORATORY
 707 N. ROBINSON
 OKLAHOMA CITY
 OKLAHOMA, 73102-6010
 General Inquiries: 1-866-412-3057
 or sels.ok.gov

Report of Analysis by GCMS
 EPA Drinking Water Certification #OK00013

To: File Copy

CC: Ferrella March/LPD

Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Dilution Factor, Extractab:		62.2				
Acenaphthylene	<	620	UG/KG	07/09/12	8270DM	
Acenaphthene	<	620	UG/KG	07/09/12	8270DM	
Anthracene	<	620	UG/KG	07/09/12	8270DM	
Benzo(b)fluoranthene	<	620	UG/KG	07/09/12	8270DM	
Benzo(k)fluoranthene	<	620	UG/KG	07/09/12	8270DM	
Benzo(a)pyrene	<	620	UG/KG	07/09/12	8270DM	
Bis(2-chloroethyl)ether	<	620	UG/KG	07/09/12	8270DM	
Bis(2-chloroethoxy)methane	<	620	UG/KG	07/09/12	8270DM	
Bis(2-chloroisopropyl)ethe:	<	620	UG/KG	07/09/12	8270DM	
Butylbenzylphthalate	<	620	UG/KG	07/09/12	8270DM	
Chrysene	<	620	UG/KG	07/09/12	8270DM	
Diethylphthalate	<	620	UG/KG	07/09/12	8270DM	
Dimethylphthalate	<	620	UG/KG	07/09/12	8270DM	
Fluoranthene	<	620	UG/KG	07/09/12	8270DM	
Fluorene	<	620	UG/KG	07/09/12	8270DM	
Hexachlorocyclopentadiene	<	620	UG/KG	07/09/12	8270DM	
Hexachloroethane	<	620	UG/KG	07/09/12	8270DM	
Indeno(123cd)pyrene	<	620	UG/KG	07/09/12	8270DM	
Isophorone	<	620	UG/KG	07/09/12	8270DM	
Nitrosodipropylamine	<	620	UG/KG	07/09/12	8270DM	
Nitrosodiphenylamine	<	620	UG/KG	07/09/12	8270DM	
Naphthalene	<	620	UG/KG	07/09/12	8270DM	
Nitrobenzene	<	620	UG/KG	07/09/12	8270DM	
p-Chloro-m-cresol	<	620	UG/KG	07/09/12	8270DM	
Phenanthrene	<	620	UG/KG	07/09/12	8270DM	
Pyrene	<	620	UG/KG	07/09/12	8270DM	
Benzo(ghi)perylene	<	620	UG/KG	07/09/12	8270DM	
Benzo(a)anthracene	<	620	UG/KG	07/09/12	8270DM	
Dibenzo(ah)anthracene	<	620	UG/KG	07/09/12	8270DM	
2-Chloronaphthalene	<	620	UG/KG	07/09/12	8270DM	
2-Chlorophenol	<	620	UG/KG	07/09/12	8270DM	
2-Nitrophenol	<	620	UG/KG	07/09/12	8270DM	

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Di-n-octylphthalate	<	620	UG/KG	07/09/12	8270DM	
2,4-Dichlorophenol	<	620	UG/KG	07/09/12	8270DM	
2,4-Dimethylphenol	<	620	UG/KG	07/09/12	8270DM	
2,4-Dinitrotoluene	<	620	UG/KG	07/09/12	8270DM	
2,4-Dinitrophenol	<	1600	UG/KG	07/09/12	8270DM	
2,4,6-Trichlorophenol	<	620	UG/KG	07/09/12	8270DM	
2,6-Dinitrotoluene	<	620	UG/KG	07/09/12	8270DM	
3,3'-Dichlorobenzidine	<	620	UG/KG	07/09/12	8270DM	
4-Bromophenylphenyl ether	<	620	UG/KG	07/09/12	8270DM	
4-Chlorophenyl phenylether	<	620	UG/KG	07/09/12	8270DM	
4-Nitrophenol	<	1600	UG/KG	07/09/12	8270DM	
4,6-Dinitro-o-cresol	<	1600	UG/KG	07/09/12	8270DM	
Phenol	<	620	UG/KG	07/09/12	8270DM	
Pentachlorophenol	<	1600	UG/KG	07/09/12	8270DM	
Bis(2-ethylhexyl)phthalate	<	620	UG/KG	07/09/12	8270DM	
Di-n-butylphthalate	<	620	UG/KG	07/09/12	8270DM	
Hexachlorobenzene	<	620	UG/KG	07/09/12	8270DM	
Hexachlorobutadiene	<	620	UG/KG	07/09/12	8270DM	
Dibenzofuran	<	620	UG/KG	07/09/12	8270DM	
2-Methylphenol	<	620	UG/KG	07/09/12	8270DM	
4-Methylphenol	<	620	UG/KG	07/09/12	8270DM	
2,4,5-Trichlorophenol	<	620	UG/KG	07/09/12	8270DM	
4-Chloroaniline	<	620	UG/KG	07/09/12	8270DM	
2-Nitroaniline	<	1600	UG/KG	07/09/12	8270DM	
3-Nitroaniline	<	1600	UG/KG	07/09/12	8270DM	
4-Nitroaniline	<	1600	UG/KG	07/09/12	8270DM	
2-Methylnaphthalene	<	620	UG/KG	07/09/12	8270DM	
% Moisture - GC/MS Lab		47.	%	07/09/12	CLP 04.2	

COMPOUND	SURROGATE RECOVERIES	RECOVERY %
PHENOL-D5		54
2-FLUOROPHENOL		52
2-FLUOROBIPHENYL		57

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COMPOUND	SURROGATE RECOVERIES	RECOVERY %
NITROBENZENE-D5		58
2,4,6-TRIBROMOPHENOL		67
P-TERPHENYL-D14		58

COMPOUND	TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH	VALUE	UNITS
cyclic octaatomic sulfur		730	µg/kg

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: UNIDENTIFIED POOLED

SAMPLERS COMMENTS:

BARRETT

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

Analyst: Cassandra Kontas

At minimum, quality control samples associated with this analysis include: a negative control, a positive control, a field sample fortified with target analytes, and a duplicate. (NJ) The analysis indicates the presence of one or more compounds that have been 'tentatively identified,' and the associated numerical values represent their approximate concentrations.

* ANALYST

Cassandra Kontas

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Name	Qualifier	Value	Units	Analyzed	Method	Prep Type
Arsenic, Sediment	<	10.0	MG/KG	07/12/12	6010	
Barium, Sediment		152	MG/KG	07/12/12	6010	
Beryllium, Sediment	<	2.00	MG/KG	07/12/12	6010	
Cadmium, Sediment	<	5.00	MG/KG	07/12/12	6010	
Chromium, Sediment		19.5	MG/KG	07/12/12	6010	
Cobalt, Sediment		8.00	MG/KG	07/12/12	6010	
Copper, Sediment		11.4	MG/KG	07/12/12	6010	
Lead, Sediment	<	10.0	MG/KG	07/12/12	6010	
Manganese, Sediment		664	MG/KG	07/12/12	6010	
Molybdenum, Sediment	<	5.00	MG/KG	07/12/12	6010	
Nickel, Sediment		14.7	MG/KG	07/12/12	6010	
Silver, Sediment		8.70	MG/KG	07/12/12	6010	
Strontium, Sediment		29.6	MG/KG	07/12/12	6010	
Zinc, Sediment		48.8	MG/KG	07/12/12	6010	
Antimony, Sediment	<	10.0	MG/KG	07/12/12	6010	
Aluminum, Sediment		16300	MG/KG	07/12/12	6010	
Selenium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Titanium, Sediment		176	MG/KG	07/12/12	6010	
Vanadium, Sediment		33.3	MG/KG	07/12/12	6010	
Thallium, Sediment	<	10.0	MG/KG	07/12/12	6010	
Mercury, Sediment	<	0.25	MG/KG	06/29/12	6020	
% Solids		50.3	%	06/29/12	CLP 05.3	

Summary

Labs performing analysis on this Sample:

Metals GCMS

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SOURCE: UNIDENTIFIED POOLED

SAMPLERS COMMENTS:
BARRETT

SAMPLE RECEIVING COMMENTS:
ICE; SAMPLE= 0.3

ANALYST'S COMMENTS:

*

* ANALYST



Greg Goode
State Environmental Laboratory