



8100 National Dr. - Little Rock, AR 72209
501-455-3233 Fax 501-455-6118

14 December 2018

Chris Fuller
Bella Vista POA
51 Huntley Lane
Bella Vista, AR 72715

Project: Volatiles Samples
Project Number: December 2018
SDG Number: 1812139

Enclosed are the results of analyses for samples received by the laboratory on 11-Dec-18 09:50. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

<u>Custody Seals</u>	✓
<u>Containers Correct</u>	✓
<u>COC/Labels Agree</u>	✓
<u>Received On Ice</u>	✓
Temperature on Receipt	3.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James / Teresa Coins".

Norma James and/or Teresa Coins
Technical Director and/or QA Officer

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CASE NARRATIVE

Sample Delivery Group – 1812139

One OR more of the qualifiers described below may appear in this report. Qualifiers in RED apply to this SDG (Sample Delivery Group).

CALIBRATION QUALIFIERS:

<u>Qualifier</u>	<u>Description</u>
CR	Result above highest calibration standard, but within linear calibration range.
Est3	Result at the instrument was above the concentration of the highest standard in the calibration curve.
E2-F	Second Source Verification Failure
E7	Internal Standard Response Failure
E11	Initial Calibration Minimum Response Factor Failure
E21	CCV Low
E-01	CCV High
E35	Low Level CCV Failure

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ANALYTICAL RESULTS

Lab Number: 1812139-01
Sample Name: A1-3
Date/Time Collected: 12/10/18 8:23
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,1,1,2-Tetrachloroethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,1,1-Trichloroethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,1,2,2-Tetrachloroethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,1,2-Trichloroethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,1-Dichloroethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,1-Dichloroethene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,1-Dichloropropene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2,3-Trichlorobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2,3-Trichloropropane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2,4- Trimethylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2,4-Trichlorobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2-Dibromo-3-chloropropane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2-Dibromoethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2-Dichlorobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2-Dichloroethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2-Dichloropropane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,3,5- Trimethylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,3-Dichlorobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,3-Dichloropropane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,4-Dichlorobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
2,2-Dichloropropane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
2-Butanone	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
2-Chloroethyl Vinyl Ether	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
2-Chlorotoluene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
2-Hexanone	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
4-Chlorotoluene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
4-Methyl-2-pentanone	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Acrolein	ug/L	< 50.0	E2-F	12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Acrylonitrile	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Benzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Bromobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Bromochloromethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Bromodichloromethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Bromoform	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Bromomethane	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Carbon disulfide	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Carbon Tetrachloride	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Chlorobenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Dibromochloromethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Chloroethane	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Chloroform	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Chloromethane	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
cis-1,2-Dichloroethene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006

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Lab Number: 1812139-01
Sample Name: A1-3
Date/Time Collected: 12/10/18 8:23
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
cis-1,3-Dichloropropene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Dibromomethane	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Dichlorodifluoromethane	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Ethylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Hexachlorobutadiene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Isopropylbenzene	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Methylene Chloride	ug/L	< 20.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Methyl-tert-Butyl Ether	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Naphthalene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
m,p-Xylene	ug/L	< 10.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
n-Butylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
n-Propylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
o-Xylene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
p-Isopropyltoluene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
sec-Butylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Styrene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
tert-Butylbenzene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Tetrachloroethene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Toluene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
trans-1,2-Dichloroethene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
trans-1,3-Dichloropropene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Trichloroethene	ug/L	< 5.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Trichlorofluoromethane	ug/L	< 50.0		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Vinyl chloride	ug/L	< 2.00		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
4-Bromofluorobenzene [surr]	%	104		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
1,2-Dichloroethane-d4 [surr]	%	107		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006
Toluene-d8 [surr]	%	98.9		12/12/18 14:14	B812158	SW 8260C, Rev 3, 2006

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ANALYTICAL RESULTS

Lab Number: 1812139-02
Sample Name: B1-3
Date/Time Collected: 12/10/18 8:30
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
1,1,1,2-Tetrachloroethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,1,1-Trichloroethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,1,2,2-Tetrachloroethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,1,2-Trichloroethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,1-Dichloroethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,1-Dichloroethene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,1-Dichloropropene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2,3-Trichlorobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2,3-Trichloropropane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2,4- Trimethylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2,4-Trichlorobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2-Dibromo-3-chloropropane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2-Dibromoethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2-Dichlorobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2-Dichloroethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2-Dichloropropane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,3,5- Trimethylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,3-Dichlorobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,3-Dichloropropane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,4-Dichlorobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
2,2-Dichloropropane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
2-Butanone	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
2-Chloroethyl Vinyl Ether	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
2-Chlorotoluene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
2-Hexanone	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
4-Chlorotoluene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
4-Methyl-2-pentanone	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Acrolein	ug/L	< 50.0	E2-F	12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Acrylonitrile	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Benzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Bromobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Bromochloromethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
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Chlorobenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Dibromochloromethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Chloroethane	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Chloroform	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Chloromethane	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
cis-1,2-Dichloroethene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006

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Lab Number: 1812139-02
Sample Name: B1-3
Date/Time Collected: 12/10/18 8:30
Sample Matrix: Water

<u>Volatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
cis-1,3-Dichloropropene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Dibromomethane	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Dichlorodifluoromethane	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Ethylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Hexachlorobutadiene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Isopropylbenzene	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Methylene Chloride	ug/L	< 20.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Methyl-tert-Butyl Ether	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Naphthalene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
m,p-Xylene	ug/L	< 10.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
n-Butylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
n-Propylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
o-Xylene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
p-Isopropyltoluene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
sec-Butylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Styrene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
tert-Butylbenzene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Tetrachloroethene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Toluene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
trans-1,2-Dichloroethene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
trans-1,3-Dichloropropene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Trichloroethene	ug/L	< 5.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Trichlorofluoromethane	ug/L	< 50.0		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Vinyl chloride	ug/L	< 2.00		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
4-Bromofluorobenzene [surr]	%	104		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
1,2-Dichloroethane-d4 [surr]	%	107		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006
Toluene-d8 [surr]	%	100		12/12/18 14:42	B812158	SW 8260C, Rev 3, 2006

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QUALITY CONTROL RESULTS**Volatiles -- Batch: B812158 (Water)**

Prepared: 12-Dec-18 12:16 By: CT -- Analyzed: 12-Dec-18 19:53 By: ct

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	<5.00 ug/L	92.3% / NA	101% / 96.1%		5.36%	
1,1,1-Trichloroethane	<5.00 ug/L	95.7% / NA	111% / 107%		3.94%	
1,1,2,2-Tetrachloroethane	<5.00 ug/L	95.2% / NA	102% / 100%		1.84%	
1,1,2-Trichloroethane	<5.00 ug/L	93.6% / NA	103% / 99.2%		3.95%	
1,1-Dichloroethane	<5.00 ug/L	97.0% / NA	116% / 109%		6.15%	
1,1-Dichloroethene	<5.00 ug/L	95.5% / NA	108% / 106%		1.60%	
1,1-Dichloropropene	<5.00 ug/L	99.5% / NA	113% / 111%		2.09%	
1,2,3-Trichlorobenzene	<5.00 ug/L	91.1% / NA	99.0% / 94.1%		5.09%	
1,2,3-Trichloropropane	<5.00 ug/L	92.9% / NA	98.9% / 95.5%		3.46%	
1,2,4- Trimethylbenzene	<5.00 ug/L	89.6% / NA	100% / 93.9%		6.32%	
1,2,4-Trichlorobenzene	<5.00 ug/L	91.9% / NA	101% / 94.3%		7.26%	
1,2-Dibromo-3-chloropropane	<5.00 ug/L	85.0% / NA	85.8% / 84.7%		1.35%	
1,2-Dibromoethane	<5.00 ug/L	95.2% / NA	104% / 98.7%		5.11%	
1,2-Dichlorobenzene	<5.00 ug/L	88.2% / NA	96.2% / 89.2%		7.53%	
1,2-Dichloroethane	<5.00 ug/L	96.4% / NA	112% / 107%		4.80%	
1,2-Dichloropropane	<5.00 ug/L	95.5% / NA	113% / 107%		4.78%	
1,3,5- Trimethylbenzene	<5.00 ug/L	90.5% / NA	101% / 94.2%		6.59%	
1,3-Dichlorobenzene	<5.00 ug/L	88.7% / NA	98.1% / 91.3%		7.14%	
1,3-Dichloropropane	<5.00 ug/L	96.5% / NA	106% / 101%		4.96%	
1,4-Dichlorobenzene	<5.00 ug/L	88.4% / NA	97.1% / 90.1%		7.40%	
2,2-Dichloropropane	<5.00 ug/L	105% / NA	116% / 107%		8.72%	
2-Butanone	<50.0 ug/L	94.3% / NA	95.0% / 97.3%		2.35%	
2-Chloroethyl Vinyl Ether	<50.0 ug/L	94.7% / NA	104% / 101%		2.33%	
2-Chlorotoluene	<5.00 ug/L	91.6% / NA	104% / 96.6%		7.60%	
2-Hexanone	<50.0 ug/L	92.9% / NA	97.2% / 96.2%		1.08%	
4-Chlorotoluene	<5.00 ug/L	88.7% / NA	102% / 94.7%		6.94%	
4-Methyl-2-pentanone	<50.0 ug/L	92.5% / NA	99.7% / 96.9%		2.79%	
Acrolein	<50.0 ug/L	94.3% / NA	75.9% / 77.5%		2.17%	E2-F
Acrylonitrile	<50.0 ug/L	96.2% / NA	99.4% / 99.2%		0.237%	
Benzene	<5.00 ug/L	96.8% / NA	109% / 104%		4.68%	
Bromobenzene	<5.00 ug/L	91.2% / NA	101% / 94.4%		6.87%	
Bromochloromethane	<5.00 ug/L	99.4% / NA	108% / 102%		5.92%	
Bromodichloromethane	<5.00 ug/L	94.9% / NA	106% / 103%		2.91%	
Bromoform	<5.00 ug/L	90.4% / NA	94.1% / 91.1%		3.19%	
Bromomethane	<50.0 ug/L	97.1% / NA	117% / 118%		0.910%	
Carbon disulfide	<50.0 ug/L	92.9% / NA	110% / 107%		2.72%	
Carbon Tetrachloride	<5.00 ug/L	102% / NA	124% / 116%		6.76%	
Chlorobenzene	<5.00 ug/L	91.5% / NA	103% / 96.3%		6.59%	
Chloroethane	<50.0 ug/L	93.5% / NA	112% / 109%		3.29%	
Chloroform	<5.00 ug/L	95.8% / NA	107% / 102%		4.82%	
Chloromethane	<50.0 ug/L	90.6% / NA	102% / 96.9%		5.30%	
cis-1,2-Dichloroethene	<5.00 ug/L	95.4% / NA	106% / 101%		4.81%	
cis-1,3-Dichloropropene	<5.00 ug/L	96.0% / NA	107% / 102%		4.75%	
Dibromochloromethane	<5.00 ug/L	95.0% / NA	99.1% / 94.5%		4.79%	
Dibromomethane	<5.00 ug/L	97.2% / NA	108% / 103%		4.75%	
Dichlorodifluoromethane	<50.0 ug/L	87.6% / NA	112% / 111%		0.854%	
Ethylbenzene	<5.00 ug/L	91.6% / NA	104% / 98.8%		5.03%	
Hexachlorobutadiene	<5.00 ug/L	88.9% / NA	101% / 95.7%		5.17%	

Chris Fuller
Bella Vista POA
51 Huntley Lane
Bella Vista, AR 72715
Project: Volatiles Samples

Project Number: December 2018

Date Received: 11-Dec-18 09:50

QUALITY CONTROL RESULTS**Volatiles -- Batch: B812158 (Water)**

Prepared: 12-Dec-18 12:16 By: CT -- Analyzed: 12-Dec-18 19:53 By: ct

Analyte	BLK	LCS / LCSD	MS / MSD	Dup	RPD	Qualifiers
Isopropylbenzene	<50.0 ug/L	88.1% / NA	101% / 93.9%		7.26%	
m,p-Xylene	<10.0 ug/L	91.0% / NA	105% / 98.8%		5.63%	
Methylene Chloride	<20.0 ug/L	91.9% / NA	103% / 97.9%		4.83%	
Methyl-tert-Butyl Ether	<5.00 ug/L	101% / NA	106% / 103%		2.95%	
Naphthalene	<5.00 ug/L	82.9% / NA	82.6% / 81.7%		1.16%	
n-Butylbenzene	<5.00 ug/L	89.5% / NA	102% / 94.3%		7.43%	
n-Propylbenzene	<5.00 ug/L	91.3% / NA	105% / 98.2%		6.74%	
o-Xylene	<5.00 ug/L	92.1% / NA	103% / 97.6%		5.86%	
p-Isopropyltoluene	<5.00 ug/L	90.3% / NA	102% / 94.7%		7.33%	
sec-Butylbenzene	<5.00 ug/L	87.1% / NA	99.8% / 93.7%		6.26%	
Styrene	<5.00 ug/L	88.5% / NA	97.7% / 93.5%		4.42%	
tert-Butylbenzene	<5.00 ug/L	89.3% / NA	102% / 95.8%		6.36%	
Tetrachloroethene	<5.00 ug/L	90.7% / NA	108% / 103%		4.87%	
Toluene	<5.00 ug/L	91.3% / NA	106% / 99.6%		6.07%	
trans-1,2-Dichloroethene	<5.00 ug/L	93.5% / NA	107% / 103%		3.94%	
trans-1,3-Dichloropropene	<5.00 ug/L	97.7% / NA	106% / 102%		4.24%	
Trichloroethene	<5.00 ug/L	88.6% / NA	99.7% / 96.6%		3.16%	
Trichlorofluoromethane	<50.0 ug/L	95.0% / NA	119% / 117%		1.92%	
Vinyl chloride	<2.00 ug/L	95.3% / NA	117% / 113%		3.28%	
1,2-Dichloroethane-d4 [surr]	108 %	106% / NA	108% / 109%		NA	
4-Bromofluorobenzene [surr]	103 %	102% / NA	103% / 101%		NA	
Toluene-d8 [surr]	100 %	99.7% / NA	99.9% / 100%		NA	

QUALIFIER(S)

*E2-F: Second Source Verification Failure

All Analysis performed according to EPA approved methodology when available :

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:



Norma James and/or Teresa Coins
Technical Director and/or QA Officer



8100 National Dr.
 Little Rock, AR 72209
 PHONE: 501-455-3233
 FAX: 501-455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		Project Description		Turnaround Time		Preservation Codes:				
Bella Vista POA				1 Day (100%)		1. Cool, 6 Degrees Centigrade				
51 Huntley Lane				2 Day (50%)		2. Sulfuric Acid (H ₂ SO ₄), pH < 2				
Bella Vista, AR 72715		Reporting Information		3 Day (25%)		3. Nitric Acid (HNO ₃), pH < 2				
Attn: Chris Fuller		Telephone: 479-455-4472		5 Day (hourline)		4. Thiosulfate for Dechlorination				
		Email: christu@bvvpoa.com		Preservative Code: 1		5. Hydrochloric Acid(HCl)				
				Bottle Type: GV		6. Sodium Hydroxide (NaOH), pH > 12				
Sampler(s) Signature: <i>Chris Fuller</i>		Sampler(s) Printed: Chris Fuller		TEST PARAMETERS		Bottle Type Code				
						G = Glass; P = Plastic				
						V = Syphon; A = Amber				
Field Number	SAMPLE COLLECTION Dates	Times	Grab	Comp	Number of bottles	Sample Matrix	IDENTIFICATION/ DESCRIPTION	SAMPLE	Volatiles	Arkansas Analytical Work Order Number:
	10 Dec 18	8:23am	X		1	Water	A1 } 1 set of 3 vials		X	1812139
	10 Dec 18	8:23am	X		1	Water	A2 } 1 set of 3 vials		X	
	10 Dec 18	8:23am	X		1	"	A3 } 1 set of 3 vials		X	
	10 Dec 18	8:30am	X		1	"	B1 } 1 set of 3 vials		X	
	10 Dec 18	8:30am	X		1	"	B2 } 1 set of 3 vials		X	
	10 Dec 18	8:30am	X		1	"	B3 } 1 set of 3 vials		X	
1. Relinquished by: (Signature)		Date/Time		2. Received by: (Signature)		SAMPLE CONDITION UPON RECEIPT IN LAB		REMARKS / SAMPLE COMMENTS		
				UBS		1. CUSTODY SEALS: <input checked="" type="checkbox"/> Yes ___ No 2. CONTAINERS CORRECT: <input checked="" type="checkbox"/> Yes ___ No 3. COCLABELS AGREE: <input checked="" type="checkbox"/> Yes ___ No 4. RECEIVED ON ICE: <input checked="" type="checkbox"/> Yes ___ No 5. TEMPERATURE ON RECEIPT: 3 °C 6. TEMPERATURE GUN ID: HHT#2				
3. Relinquished by: (Signature)		Date/Time		4. Received by lab: (Signature)		FOR COMPLETION BY LAB ONLY				
UBS		12-11-18		Dannunty Riddle						
		950								