

CONFIRMATION NUMBER

70718091-9850-4022-9524-BD7C6B16191A

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: 70718091-9850-4022-9524-BD7C6B16191A

Date Sent: 6/28/2014

SSO Bypass Upset

Facility Permit Number: **AR0033278**
 Date Overflow Began: **06/28/2014**
 Date Overflow Ended: **06/28/2014**
 Location: **1900 Waco, between manholes MC06-1060 & 1050, yard**

Facility name:
 Time:
 Time:

P Street
07:00 pm
08:30 pm

1900 Waco, between manholes MC06-1060 & 1050, yard ^
 v

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: **450**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Reached Public Land Only (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause: **possible joint or mai failure**

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Disinfected and Deodorized
- Jet-Vac
- Hydro Cleaned
- Hand rodded
- Spread Lime on Affected Area
- Used Generator To Power Pumps/Equipment
- Public Notification
- Other: Describe

follow up with tv inspection

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- OEEI - Observed or Evidence of Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional
 Comments
 if Needed:

^
 v

CONFIRMATION NUMBER

70718091-9850-4022-9524-BD7C6B16191A

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: 70718091-9850-4022-9524-BD7C6B16191A

Date Sent: 6/28/2014

SSO Bypass Upset

Facility Permit Number: **AR0033278**

Facility name:

P Street

Date Overflow Began: **06/28/2014**

Time:

07:00 pm

Date Overflow Ended: **06/28/2014**

Time:

08:30 pm

Location:

1900 Waco, between manholes MC06-1060 & 1050, yard

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: **450**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Reached Public Land Only (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause: **possible joint or mai failure**

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Disinfected and Deodorized
- Jet-Vac
- Hydro Cleaned
- Hand rodded
- Spread Lime on Affected Area
- Used Generator To Power Pumps/Equipment
- Public Notification
- Other: Describe

follow up with tv inspection

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- OEEL - Observed or Evidence of Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

CD074027-8D09-440E-A3A7-5949AEE0885C

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: CD074027-8D09-440E-A3A7-5949AEE0885C

Date Sent: 6/28/2014

SSO Bypass Upset

Facility Permit Number: **AR0033278**

Facility name:

P Street

Date Overflow Began: **06/28/2014**

Time:

01:00 pm

Date Overflow Ended: **06/28/2014**

Time:

02:00 pm

Location:

1900 Waco, between manholes MC06-1060 & 1050, yard

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: 300

(Give an estimate in gallons)

Impact of SSO Event: SSO Reached Public Land Only (ground)

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause: **possible joint or main failure**

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Disinfected and Deodorized
- Jet-Vac
- Hydro Cleaned
- Hand rodded
- Spread Lime on Affected Area
- Used Generator To Power Pumps/Equipment
- Public Notification
- Other: Describe **follow up with tv inspection**

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- OEEI - Observed or Evidence of Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

450ECE5A-3221-41AE-8A31-0A135BE8F28E

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: 450ECE5A-3221-41AE-8A31-0A135BE8F28E

Date Sent: 6/21/2014

SSO Bypass Upset

Facility Permit Number: **AR0021750**

Facility name:

Massard

Date Overflow Began: **06/20/2014**

Time:

07:45 pm

Date Overflow Ended: **06/20/2014**

Time:

08:15 pm

Location:

5013 Wirsing, manhole S005-1500, yard

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Volume:

150

(Give an estimate in gallons)

Impact of SSO Event:

SSO Affected Private Property (ground)

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEL - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

4D657120-987B-48F6-A6F6-12A7FFCBDE8A

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: 4D657120-987B-48F6-A6F6-12A7FFCBDE8A

Date Sent: 6/19/2014

SSO Bypass Upset

Facility Permit Number: **AR0033278**

Facility name:

P Street

Date Overflow Began: **06/18/2014**

Time:

08:30 am

Date Overflow Ended: **06/18/2014**

Time:

08:30 pm

Location: **3215 Glen Flora Way, manhole 2004-1051, storm drain**

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: **3600**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Reached Receiving Water (river,stream)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
 - Jet-Vac
 - Hand rodded
 - Used Generator To Power Pumps/Equipment
 - Other: Describe
 - Disinfected and Deodorized
 - Hydro Cleaned
 - Spread Lime on Affected Area
 - Public Notification
- emergency repair**

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

EF7D69DD-C8D6-4FBD-B48C-6D58337EFE08

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: EF7D69DD-C8D6-4FBD-B48C-6D58337EFE08

Date Sent: 6/17/2014

SSO Bypass Upset

Facility Permit Number: **AR0033278**
 Date Overflow Began: **06/16/2014**
 Date Overflow Ended: **06/16/2014**
 Location: **2919 Kendall Ave. between manholes 2003-1390 & 1380, yard**

Facility name:
 Time:
 Time:

P Street
11:50 am
12:30 pm

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type: **clean out**
 (Enter overflow type if not listed)

Volume: **300**
 (Give an estimate in gallons)

Impact of SSO Event: **SSO Affected Private Property (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional
 Comments
 if Needed:

CONFIRMATION NUMBER

4434A933-E0DC-4FF7-BE36-DA7EC92A6C7B

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: 4434A933-E0DC-4FF7-BE36-DA7EC92A6C7B

Date Sent: 6/13/2014

SSO Bypass Upset

Facility Permit Number: **AR0021750**

Facility name: **Massard**

Date Overflow Began: **06/12/2014**

Time: **04:10 pm**

Date Overflow Ended: **06/12/2014**

Time: **05:50 pm**

Location: **#6 North 58th Terrace, manhole S002-1180, yard**

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: **500**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Reached Public Land Only (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Disinfected and Deodorized
- Jet-Vac
- Hydro Cleaned
- Hand rodded
- Spread Lime on Affected Area
- Used Generator To Power Pumps/Equipment
- Public Notification
- Other: Describe

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- OEEL - Observed or Evidence of Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

AFA24672-584D-4150-A946-953B98754B23

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: AFA24672-584D-4150-A946-953B98754B23
Date Sent: 6/10/2014

SSO Bypass Upset

Facility Permit Number:	AR0033278	Facility name:	P Street
Date Overflow Began:	06/09/2014	Time:	01:47 pm
Date Overflow Ended:	06/09/2014	Time:	02:45 pm

Location: **8200 Hwy. 71 south, manhole 2003-1750, yard**
Hwy.

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: **290**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Affected Private Property (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah** Title **Superintendent** Telephone Number **(479) 784-2344**
 Additional Comments if Needed:

CONFIRMATION NUMBER

371834BF-2C22-4C1A-9697-3961221E2BAC

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: 371834BF-2C22-4C1A-9697-3961221E2BAC

Date Sent: 6/9/2014

SSO Bypass Upset

Facility Permit Number: **AR0033278**

Facility name:

P Street

Date Overflow Began: **06/08/2014**

Time:

04:48 pm

Date Overflow Ended: **06/08/2014**

Time:

07:51 pm

Location: **1412 Phoenix, manhole MC06-0542, storm drain**

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: 18300

(Give an estimate in gallons)

Impact of SSO Event: SSO Reached Receiving Water (river,stream)

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

F2C1A05A-A71F-4757-958E-AF05492C0C67

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: F2C1A05A-A71F-4757-958E-AF05492C0C67
Date Sent: 6/9/2014

SSO Bypass Upset

Facility Permit Number: AR0033278
Date Overflow Began: 06/08/2014
Date Overflow Ended: 06/08/2014
Location: 1412 Phoenix, manhole MC06-0305, storm drain

Facility name:
Time:
Time:

P Street
04:47 pm
07:52 pm

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: 18500

(Give an estimate in gallons)

Impact of SSO Event: SSO Reached Receiving Water (river,stream)

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By Leroy Jeremiah

Title Superintendent

Telephone Number (479) 784-2344

Additional Comments if Needed:

CONFIRMATION NUMBER

BCDFE927-35DB-4819-A1EC-026AC253E079

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: BCDFE927-35DB-4819-A1EC-026AC253E079
Date Sent: 6/9/2014

SSO Bypass Upset

Facility Permit Number:	AR0033278	Facility name:	P street
Date Overflow Began:	06/08/2014	Time:	02:45 pm
Date Overflow Ended:	06/08/2014	Time:	04:01 pm
Location:	8117 Meadow Dr., manhole 2006-1600, storm drain		

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: 7600

(Give an estimate in gallons)

Impact of SSO Event: SSO Reached Receiving Water (river,stream)

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By Leroy Jeremiah	Title Superintendent	Telephone Number (479) 784-2344
Additional Comments if Needed:		

CONFIRMATION NUMBER

A6E83E38-013F-4561-9695-3B7CA901688C

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: A6E83E38-013F-4561-9695-3B7CA901688C

Date Sent: 6/7/2014

SSO Bypass Upset

Facility Permit Number: **AR000033278**

Facility name:

P Street WWTP

Date Overflow Began: **6-6-2014**

Time:

4:00 pm

Date Overflow Ended: **6-6-2014**

Time:

6:16 pm

Location:

3915 Free Ferry Rd. Basin P007. USMH 0990. DSMH 0960

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: 5400

(Give an estimate in gallons)

Impact of SSO Event: SSO Reached Public Land Only (ground)

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Steve Floyd** Title **Supt.** Telephone Number **(479) 461-0914**

Additional Comments if Needed:

[Empty text box for additional comments]

CONFIRMATION NUMBER

C6404947-7CFA-4A94-9D8B-3F6E2B0B94A3

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

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24-Hour Sanitary Sewer Overflow Report

SSO ID#: C6404947-7CFA-4A94-9D8B-3F6E2B0B94A3

Date Sent: 6/5/2014

SSO Bypass Upset

Facility Permit Number: **AR0021750**
 Date Overflow Began: **06/05/2014**
 Date Overflow Ended: **06/05/2014**
 Location: **3824 Johnson, between manholes S009-1450 & 1440, yard**

Facility name: **Massard**
 Time: **10:10 am**
 Time: **11:00 am**

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type: **clean out**

(Enter overflow type if not listed)

Volume: **250**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Affected Private Property (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded
- Jet-Vac
- Hand rodded
- Used Generator To Power Pumps/Equipment
- Other: Describe
- Disinfected and Deodorized
- Hydro Cleaned
- Spread Lime on Affected Area
- Public Notification

Environmental Damage

- OEHC - Observed or Evidence of Human Contact
- OEEI - Observed or Evidence of Environmental Impact
- NEAH - No Evidence of Adverse Health/Environmental Impact
- EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

CONFIRMATION NUMBER

703458C0-CC6C-41FD-98E7-80F288CE6EA0

(NOTE: You will need this number should you ever need to contact ADEQ concerning this report)

The following information has been sent.

[Close this window](#) [Print this page](#)

24-Hour Sanitary Sewer Overflow Report

SSO ID#: 703458C0-CC6C-41FD-98E7-80F288CE6EA0

Date Sent: 6/3/2014

SSO Bypass Upset

Facility Permit Number: **AR0021750**

Facility name: **Massard**

Date Overflow Began: **06/03/2014**

Time: **09:00 am**

Date Overflow Ended: **06/03/2014**

Time: **10:00 am**

Location: **3915 Free Ferry, manhole P007-0960, yard**

(Give address, manhole number-if numbered. Include where the overflow went-yard, ditch, stream, storm sewer, building, other).

Type of Overflow

- Manhole Overflow
- Lift Station Overflow
- Main Line Overflow
- Service Line Overflow
- Other Overflow Type:

(Enter overflow type if not listed)

Volume: **600**

(Give an estimate in gallons)

Impact of SSO Event: **SSO Reached Public Land Only (ground)**

Cause of Overflow

- I & I - Rainfall
- Roots
- Grease
- Debris
- Equipment Failure
- Construction
- Vandalism
- Power Failure
- Line Failure/Break
- Other Cause:

Action Taken - Check all that apply

(Short term and long-term action, including clean-up and any plans to remediate I & I).

- Machine rodded Disinfected and Deodorized
- Jet-Vac Hydro Cleaned
- Hand rodded Spread Lime on Affected Area
- Used Generator To Power Pumps/Equipment Public Notification
- Other: Describe

Environmental Damage

- OEHC - Observed or Evidence of Human Contact NEAH - No Evidence of Adverse Health/Environmental Impact
- OEEI - Observed or Evidence of Environmental Impact EFK - Evidence of Fish Kill

Reported By **Leroy Jeremiah**

Title **Superintendent**

Telephone Number **(479) 784-2344**

Additional Comments if Needed:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME: FORT SMITH, CITY OF-MOUNTAINBURG WTP
ADDRESS: 3900 KELLEY HIGHWAY
 FORT SMITH, AR 72904
FACILITY: FORT SMITH, CITY OF-MOUNTAINBURG WTP
LOCATION: 12500 WARLOOP ROAD
 MOUNTAINBURG, AR 72946
ATTN: STEVE PARKE, DIR OF UTILITIES

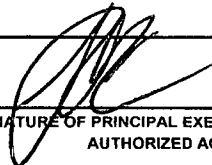
ARG640065	102-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
06/01/2014	06/30/2014

DMR Mailing ZIP CODE: 72904
MINOR

001-Monthly-WTP Avg. Flow >0.5 & <=1.0 MGD
External Outfall

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****	*****	9.0	*****	9.0		0	1 Mo.	Grab
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6 MINIMUM	*****	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	5	5		0	1 Mo.	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	20 MO AVG	30 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.197	0.315		*****	*****	*****	*****	*	Cont.	Record
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Five Per Week	See Comments
Aluminum, Dissolved					0.048	0.048			0	1 Mo.	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Steve Parke, Director TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE	
			479-784-2231	07-23-2014	
			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facilities with a daily average waste discharge Flow > 0.5 MGD, but <= 1.0 MGD. Report Flow as monthly average and daily maximum in million gallons per day. See Part 6.2. Indicate the Sample Type for Flow on this DMR (instantaneous, totalizing, calculated). 17-00542

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

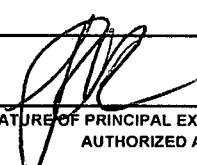
NAME: FORT SMITH, CITY OF-LEE CREEK WTP
ADDRESS: 3900 KELLEY HIGHWAY
FORT SMITH, AR 72904
FACILITY: FORT SMITH, CITY OF-LEE CREEK WTP
LOCATION: 2425 PINE HOLLOW ROAD
VAN BUREN, AR 72956
ATTN: STEVE PARKE, DIR. OF UTILITIES

ARG640061	101-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
06/01/2014	06/30/2014

DMR Mailing ZIP CODE: 72904
MINOR
001-Monthly-WTP Avg. Flow <= 0.5 MGD
External Outfall

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.190	0.480		*****	*****	*****	*****	*	Cont.	Record
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*****		Five Per Week	See Comments

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE	
Steve Parke, Director			79-784-2231	07-23-2014	
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facilities with a daily average waste discharge Flow <= 0.5 MGD. Report Flow as monthly average and daily maximum in million gallons per day. See Part 6.2. Indicate the Sample Type for Flow on this DMR (instantaneous, totalizing, calculated). 17-00543

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: FORT SMITH, CITY OF-LEE CREEK WTP
ADDRESS: 3900 KELLEY HIGHWAY
FORT SMITH, AR 72904
FACILITY: FORT SMITH, CITY OF-LEE CREEK WTP
LOCATION: 2425 PINE HOLLOW ROAD
VAN BUREN, AR 72956
ATTN: STEVE PARKE, DIR. OF UTILITIES

ARG640061	101-Q
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
04/01/2014	06/30/2014

DMR Mailing ZIP CODE: 72904
MINOR
001-Quarterly-WTP Avg. Flow <=0.5 MGD
External Outfall

No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*****	*****	*****	6.7	*****	6.7		0	1 Qtr	Grab
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6 MINIMUM	*****	9 MAXIMUM	SU		Quarterly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	5	5		0	1 Qtr	Grab
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	20 MO AVG	30 DAILY MX	mg/L		Quarterly	GRAB
Aluminum, dissolved [as Al]	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.033	0.033		0	1 Qtr	Grab
01106 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1 MO AVG	2 DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE	DATE
Steve Parke, Director		79-784-2231	07-23-2014
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER
			MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facilities with a daily average waste discharge Flow <= 0.5 MGD. Calendar Quarters: (Jan-Mar), (Apr-Jun), (Jul-Sep) & (Oct-Dec). 17-00543



AR 0033278

May 20, 2014
Control No. 178499
Page 1 of 60

2ND QTR 2014

City of Fort Smith
ATTN: Mr. Lance McAvoy
3900 Kelley Highway
Fort Smith, AR 72904

This report contains the analytical results and supporting information for samples submitted on May 13, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: City of Fort Smith
ATTN: Mr. Lance McAvoy
lmcavoy@fortsmithar.gov

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

SAMPLE INFORMATION

Project Description:

Two (2) water and one (1) sludge sample(s) received on May 13, 2014
"P" Street Table II/III Priority Pollutants

Receipt Details:

A Chain of Custody was provided. The samples were delivered in two (2) ice chests.
Ice chest #1 was delivered with a custody seal intact and signed with shipping documentation.
Ice chest #2 was delivered with a custody seal intact and signed with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
178499-1	P Street Influent 5/12/14 0905	12-May-2014 0905	
178499-2	P Street Raw Biosolid 5/12/14 1402	12-May-2014 1402	
178499-3	P Street Effluent 5/12/14 1408	12-May-2014 1408	

Qualifiers:

- D Result is from a secondary dilution factor
- R n-Nitrosodiphenylamine cannot be separated from diphenylamine
- X Spiking level is invalid due to the high concentration of analyte in the spiked sample

Case Narrative:

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", (SM).
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 178499-1

Sample Identification: P Street Influent 5/12/14 0905

Note: Elevated reporting limits for Organochlorine Pesticides are due to matrix interference.

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	94	5	ug/l	
Prep: 14-May-2014 0810 by 308	Analyzed: 14-May-2014 1130 by 308		Batch: W47697	
Chromium, Hexavalent SM 3500-Cr B 2009	< 10	10	ug/l	
Prep: 13-May-2014 1420 by 308	Analyzed: 13-May-2014 1530 by 308		Batch: W47688	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 13-May-2014 1355 by 308	Analyzed: 13-May-2014 1617 by 308		Batch: W47679	
Mercury, low level EPA 245.7	0.11	0.050	ug/l	D
Prep: 16-May-2014 0909 by 311	Analyzed: 16-May-2014 1212 by 311		Batch: S36804	Dil: 10
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Arsenic EPA 200.8	3.6	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Cadmium EPA 200.8	1.0	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Chromium EPA 200.8	14	10	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Copper EPA 200.8	110	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Lead EPA 200.8	62	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Nickel EPA 200.8	12	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Silver EPA 200.8	1.1	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1925 by 305		Batch: S36787	
Total Recoverable Zinc EPA 200.8	600	100	ug/l	D
Prep: 13-May-2014 1417 by 285	Analyzed: 15-May-2014 1432 by 305		Batch: S36787	Dil: 5
Base/Neutral and Acid Compounds By EPA 625				
Acenaphthene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Acenaphthylene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-1 (Continued)

Sample Identification: P Street Influent 5/12/14 0905

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Base/Neutral and Acid Compounds By EPA 625 (Continued)					
Anthracene		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Benidine		< 50	50	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Benzo(a)anthracene		< 5.0	5.0	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Benzo(a)pyrene		< 5.0	5.0	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Benzo(g,h,i)perylene		< 20	20	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Benzo(k)fluoranthene		< 5.0	5.0	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
3,4-Benzofluoranthene		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Bis(2-chloroethoxy)methane		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Bis(2-chloroethyl)ether		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Bis(2-chloroisopropyl)ether		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Bis(2-ethylhexyl)phthalate		12	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
4-Bromophenyl phenyl ether		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Butylbenzyl phthalate		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2-Chloronaphthalene		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2-Chlorophenol		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
4-Chlorophenyl phenyl ether		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Chrysene		< 5.0	5.0	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Di-n-butyl phthalate		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Di-n-octyl phthalate		< 10	10	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Dibenz(a,h)anthracene		< 5.0	5.0	ug/l	
EPA 625	Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-1 (Continued)

Sample Identification: P Street Influent 5/12/14 0905

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
3,3'-Dichlorobenzidine EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2,4-Dichlorophenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Diethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Dimethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2,4-Dimethylphenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
4,6-Dinitro-o-cresol EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2,4-Dinitrophenol EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2,4-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2,6-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
1,2-Diphenylhydrazine EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Fluorene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Hexachlorobenzene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Hexachlorobutadiene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Hexachlorocyclopentadiene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Hexachloroethane EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Indeno(1,2,3-cd)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Isophorone EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
n-Nitrosodi-n-propylamine EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
n-Nitrosodimethylamine EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
n-Nitrosodiphenylamine EPA 625	< 20	20	ug/l	R
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-1 (Continued)

Sample Identification: P Street Influent 5/12/14 0905

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Naphthalene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Nitrobenzene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2-Nitrophenol EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
4-Nitrophenol EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
p-Chloro-m-cresol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Pentachlorophenol EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Phenanthrene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Phenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Pyrene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
1,2,4-Trichlorobenzene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
2,4,6-Trichlorophenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 625	64.2		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 625	45.4		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 625	64.1		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 625	55.8		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 625	66.4		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2208 by 301		Batch: B8961	
Volatile Organic Compounds By EPA 624				
Acrolein EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Acrylonitrile EPA 624	< 20	20	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Benzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-1 (Continued)

Sample Identification: P Street Influent 5/12/14 0905

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Bromoform EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Carbon tetrachloride EPA 624	< 2.0	2.0	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Chlorobenzene EPA 624	10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Chlorodibromomethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Chloroethane EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
2-Chloroethyl vinyl ether EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Chloroform EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,2-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,3-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,4-Dichlorobenzene EPA 624	16	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Dichlorobromomethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,1-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,2-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,1-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
trans-1,2-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,2-Dichloropropane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,3-Dichloropropylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Ethylbenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Methyl bromide(Bromomethane) EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Methyl chloride(Chloromethane) EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-1 (Continued)

Sample Identification: P Street Influent 5/12/14 0905

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Methylene chloride EPA 624	< 20	20	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,1,2,2-Tetrachloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Tetrachloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Toluene EPA 624	100	50	ug/l	D
Prep: 13-May-2014 1350 by 301	Analyzed: 14-May-2014 1449 by 301		Batch: V8517	Dil: 5
1,1,1-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
1,1,2-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Trichloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Vinyl chloride EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 624	96.4		%	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Surrogate: Dibromofluoromethane (85.0-115%) EPA 624	106		%	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Surrogate: Toluene-D8 (85.0-120%) EPA 624	99.7		%	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2011 by 301		Batch: V8517	
Organochlorine Pesticides and PCBs By EPA 608				
Aldrin EPA 608	< 0.10	0.10	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
alpha-BHC EPA 608	< 0.50	0.50	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
alpha-Endosulfan EPA 608	< 0.10	0.10	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
beta-BHC EPA 608	< 0.50	0.50	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
beta-Endosulfan EPA 608	< 0.20	0.20	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Chlordane EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Chlorpyrifos EPA 608	< 0.70	0.70	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
4,4'-DDD EPA 608	< 1.0	1.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 178499-1 (Continued)
Sample Identification: P Street Influent 5/12/14 0905

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides and PCBs By EPA 608 (Continued)				
4,4'-DDE EPA 608	< 1.0	1.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
4,4'-DDT EPA 608	< 0.20	0.20	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
delta-BHC EPA 608	< 0.50	0.50	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Dieldrin EPA 608	< 0.20	0.20	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Endosulfan sulfate EPA 608	< 1.0	1.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Endrin EPA 608	< 0.20	0.20	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Endrin aldehyde EPA 608	< 1.0	1.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
gamma-BHC EPA 608	< 0.50	0.50	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Heptachlor EPA 608	< 0.10	0.10	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Heptachlor epoxide EPA 608	< 0.10	0.10	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1016 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1221 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1232 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1242 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1248 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1254 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
PCB 1260 EPA 608	< 2.0	2.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Toxaphene EPA 608	< 3.0	3.0	ug/l	D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Surrogate: Decachlorobiphenyl (Diluted Out) EPA 608	-			D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10
Surrogate: Tetrachloro-m-xylene (Diluted Out) EPA 608	-			D
Prep: 14-May-2014 1153 by 306	Analyzed: 19-May-2014 1831 by 306		Batch: G9711	Dil: 10

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 178499-2
Sample Identification: P Street Raw Biosolid 5/12/14 1402

Note: Elevated reporting limits for Volatile Organic Compounds are due to matrix interference.

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 8	8	mg/Kg	
Prep: 15-May-2014 0820 by 308	Analyzed: 15-May-2014 1256 by 308		Batch: W47721	
Total Recoverable Phenolics EPA 9065	130	40	mg/Kg	
Prep: 15-May-2014 0819 by 308	Analyzed: 15-May-2014 1500 by 308		Batch: W47720	
Total Solids SM 2540 G 1997	1.2	0.01	wt %	
Prep: 16-May-2014 0914 by 271	Analyzed: 16-May-2014 1551 by 271		Batch: W47742	
Antimony EPA 3051A, 6010C	< 3	3	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Arsenic EPA 3051A, 6010C	< 5	5	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Beryllium EPA 3051A, 6010C	0.35	0.03	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Cadmium EPA 3051A, 6010C	2.3	0.4	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Chromium EPA 3051A, 6010C	49	0.7	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Copper EPA 3051A, 6010C	250	0.6	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Lead EPA 3051A, 6010C	52	4	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Molybdenum EPA 3051A, 6010C	5.5	0.8	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Nickel EPA 3051A, 6010C	29	1	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Selenium EPA 3051A, 6010C	< 7	7	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Silver EPA 3051A, 6010C	2.5	0.7	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Thallium EPA 3051A, 6010C	< 4	4	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 19-May-2014 1552 by 305		Batch: S36811	
Zinc EPA 3051A, 6010C	740	0.2	mg/Kg	
Prep: 19-May-2014 1016 by 285	Analyzed: 20-May-2014 1117 by 305		Batch: S36811	
Mercury EPA 7471B	2.1	0.2	mg/Kg	
Prep: 19-May-2014 0933 by 311	Analyzed: 19-May-2014 1440 by 311		Batch: S36810	
Base/Neutral and Acid Compounds By EPA 3550C, 8270D				
3 & 4-Methylphenol EPA 3550C, 8270D	150000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Acenaphthene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-2 (Continued)

Sample Identification: P Street Raw Biosolid 5/12/14 1402

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Acenaphthylene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Anthracene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzo(a)anthracene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzo(a)pyrene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzo(b)fluoranthene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzo(g,h,i)perylene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzo(k)fluoranthene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzoic acid EPA 3550C, 8270D	< 140000	140000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Benzyl alcohol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
bis(2-Chloroethoxy)Methane EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
bis(2-Chloroethyl)Ether EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
bis(2-Chloroisopropyl)Ether EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
bis(2-Ethylhexyl)Phthalate EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4-Bromophenyl phenyl ether EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Butyl benzyl phthalate EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4-Chloro-3-methylphenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4-Chloroaniline EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2-Chloronaphthalene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2-Chlorophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4-Chlorophenyl phenyl ether EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-2 (Continued)

Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Chrysene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Di-n-butyl phthalate EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Di-n-octyl phthalate EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Dibenz(a,h)anthracene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Dibenzofuran EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
1,2-Dichlorobenzene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
1,3-Dichlorobenzene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
1,4-Dichlorobenzene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
3,3'-Dichlorobenzidine EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,4-Dichlorophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Diethyl phthalate EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Dimethyl phthalate EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,4-Dimethylphenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4,6-Dinitro-2-methylphenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,4-Dinitrophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,4-Dinitrotoluene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,6-Dinitrotoluene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Fluoranthene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Fluorene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Hexachlorobenzene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 178499-2 (Continued)
Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Hexachlorobutadiene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Hexachlorocyclopentadiene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Hexachloroethane EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Indeno(1,2,3-cd)pyrene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Isophorone EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2-Methylnaphthalene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2-Methylphenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
N-Nitroso-di-n-propylamine EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
n-Nitrosodiphenylamine EPA 3550C, 8270D	< 27000	27000	ug/Kg	R
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Naphthalene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2-Nitroaniline EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
3-Nitroaniline EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4-Nitroaniline EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Nitrobenzene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2-Nitrophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
4-Nitrophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Pentachlorophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Phenanthrene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Phenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Pyrene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-2 (Continued)

Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
1,2,4-Trichlorobenzene EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,4,5-Trichlorophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
2,4,6-Trichlorophenol EPA 3550C, 8270D	< 27000	27000	ug/Kg	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Surrogate: 2-Fluorobiphenyl (45.0-105%) EPA 3550C, 8270D	63.5		%	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Surrogate: 2-Fluorophenol (35.0-105%) EPA 3550C, 8270D	61.0		%	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Surrogate: Nitrobenzene-D5 (35.0-100%) EPA 3550C, 8270D	57.5		%	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Surrogate: Terphenyl-D14 (30.0-125%) EPA 3550C, 8270D	63.8		%	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Surrogate: 2,4,6-Tribromophenol (35.0-125%) EPA 3550C, 8270D	73.2		%	
Prep: 15-May-2014 0928 by 301	Analyzed: 15-May-2014 1847 by 301		Batch: B8965	
Volatile Organic Compounds By EPA 5035, 8260C				
Acetone EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Benzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Bromobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Bromochloromethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Bromodichloromethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Bromoform EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Bromomethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
2-Butanone EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Carbon disulfide EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Carbon Tetrachloride EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Chlorobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-2 (Continued)

Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
Chloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
2-Chloroethyl vinyl ether EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Chloroform EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Chloromethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
2-Chlorotoluene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
4-Chlorotoluene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2-Dibromo-3-chloropropane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Dibromochloromethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2-Dibromoethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Dibromomethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2-Dichlorobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,3-Dichlorobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,4-Dichlorobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Dichlorodifluoromethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,1-Dichloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2-Dichloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,1-Dichloroethene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
cis-1,2-Dichloroethene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
trans-1,2-Dichloroethene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2-Dichloropropane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-2 (Continued)

Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
1,3-Dichloropropane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
2,2-Dichloropropane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,1-Dichloropropene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
cis-1,3-Dichloropropene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
trans-1,3-Dichloropropene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Ethylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Hexachlorobutadiene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
2-Hexanone EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Isopropylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
m&p-Xylenes EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
4-Methyl-2-pentanone EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Methylene chloride EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
n-Butylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
n-Propylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Naphthalene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
o-Xylene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
p-Isopropyltoluene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
sec-Butylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Styrene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
tert-Butylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 178499-2 (Continued)
Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
1,1,1,2-Tetrachloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,1,2,2-Tetrachloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Tetrachloroethene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Toluene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2,3-Trichlorobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2,4-Trichlorobenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,1,1-Trichloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,1,2-Trichloroethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Trichloroethene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Trichlorofluoromethane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2,3-Trichloropropane EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,2,4-Trimethylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
1,3,5-Trimethylbenzene EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Vinyl acetate EPA 5035, 8260C	< 81000	81000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Vinyl chloride EPA 5035, 8260C	< 41000	41000	ug/Kg	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Surrogate: 4-Bromofluorobenzene (85.0-120%) EPA 5035, 8260C	99.6		%	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Surrogate: Dibromofluoromethane (80.0-120%) EPA 5035, 8260C	99.9		%	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Surrogate: Toluene-D8 (85.0-115%) EPA 5035, 8260C	98.3		%	
Prep: 13-May-2014 1349 by 301	Analyzed: 14-May-2014 0027 by 301		Batch: V8516	
Organochlorine Pesticides By EPA 3550C, 8081B				
Aldrin EPA 3550C, 8081B	< 55	55	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-2 (Continued)

Sample Identification: P Street Raw Biosolid 5/12/14 1402

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides By EPA 3550C, 8081B (Continued)				
alpha-BHC EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
alpha-Endosulfan EPA 3550C, 8081B	< 55	55	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
beta-BHC EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
beta-Endosulfan EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Chlordane EPA 3550C, 8081B	< 550	550	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
4,4'-DDD EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
4,4'-DDE EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
4,4'-DDT EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
delta-BHC EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Dieldrin EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Endosulfan sulfate EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Endrin EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Endrin aldehyde EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
gamma-BHC EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Heptachlor EPA 3550C, 8081B	< 55	55	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Heptachlor epoxide EPA 3550C, 8081B	< 55	55	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Methoxychlor EPA 3550C, 8081B	< 110	110	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Toxaphene EPA 3550C, 8081B	< 1100	1100	ug/Kg	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Surrogate: Decachlorobiphenyl (55.0-130%) EPA 3550C, 8081B	80.2		%	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	
Surrogate: Tetrachloro-m-xylene (70.0-125%) EPA 3550C, 8081B	79.2		%	
Prep: 15-May-2014 1001 by 301	Analyzed: 19-May-2014 1610 by 306		Batch: G9712	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 178499-3

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	11	5	ug/l	
Prep: 14-May-2014 0810 by 308	Analyzed: 14-May-2014 1130 by 308		Batch: W47697	
Chromium, Hexavalent SM 3500-Cr B 2009	< 10	10	ug/l	
Prep: 13-May-2014 1420 by 308	Analyzed: 13-May-2014 1530 by 308		Batch: W47688	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 13-May-2014 1355 by 308	Analyzed: 13-May-2014 1619 by 308		Batch: W47679	
Mercury, low level EPA 245.7	< 0.0050	0.0050	ug/l	
Prep: 16-May-2014 0909 by 311	Analyzed: 16-May-2014 1202 by 311		Batch: S36804	
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Arsenic EPA 200.8	0.52	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Copper EPA 200.8	4.0	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Lead EPA 200.8	0.56	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Nickel EPA 200.8	2.0	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Total Recoverable Zinc EPA 200.8	47	20	ug/l	
Prep: 13-May-2014 1417 by 285	Analyzed: 14-May-2014 1930 by 305		Batch: S36787	
Base/Neutral and Acid Compounds By EPA 625				
Acenaphthene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Acenaphthylene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Anthracene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-3 (Continued)

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Benzidine EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Benzo(a)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Benzo(a)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Benzo(g,h,i)perylene EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Benzo(k)fluoranthene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
3,4-Benzofluoranthene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Bis(2-chloroethoxy)methane EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Bis(2-chloroethyl)ether EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Bis(2-chloroisopropyl)ether EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Bis(2-ethylhexyl)phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
4-Bromophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Butylbenzyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2-Chloronaphthalene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2-Chlorophenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
4-Chlorophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Chrysene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Di-n-butyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Di-n-octyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Dibenz(a,h)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
3,3'-Dichlorobenzidine EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-3 (Continued)

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
2,4-Dichlorophenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Diethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Dimethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2,4-Dimethylphenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
4,6-Dinitro-o-cresol EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2,4-Dinitrophenol EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2,4-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2,6-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
1,2-Diphenylhydrazine EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Fluorene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Hexachlorobenzene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Hexachlorobutadiene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Hexachlorocyclopentadiene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Hexachloroethane EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Indeno(1,2,3-cd)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Isophorone EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
n-Nitrosodi-n-propylamine EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
n-Nitrosodimethylamine EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
n-Nitrosodiphenylamine EPA 625	< 20	20	ug/l	R
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Naphthalene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-3 (Continued)

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Nitrobenzene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2-Nitrophenol EPA 625	< 20	20	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
4-Nitrophenol EPA 625	< 50	50	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
p-Chloro-m-cresol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Pentachlorophenol EPA 625	< 5.0	5.0	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Phenanthrene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Phenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Pyrene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
1,2,4-Trichlorobenzene EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
2,4,6-Trichlorophenol EPA 625	< 10	10	ug/l	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 625	80.0		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 625	56.2		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 625	74.2		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 625	101		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 625	85.3		%	
Prep: 14-May-2014 1438 by 306	Analyzed: 14-May-2014 2244 by 301		Batch: B8961	
Volatile Organic Compounds By EPA 624				
Acrolein EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Acrylonitrile EPA 624	< 20	20	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Benzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Bromoform EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-3 (Continued)

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Carbon tetrachloride EPA 624	< 2.0	2.0	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Chlorobenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Chlorodibromomethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Chloroethane EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
2-Chloroethyl vinyl ether EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Chloroform EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,2-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,3-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,4-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Dichlorobromomethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,1-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,2-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,1-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
trans-1,2-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,2-Dichloropropane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,3-Dichloropropylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Ethylbenzene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Methyl bromide(Bromomethane) EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Methyl chloride(Chloromethane) EPA 624	< 50	50	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Methylene chloride EPA 624	< 20	20	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-3 (Continued)

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
1,1,2-Tetrachloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Tetrachloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Toluene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,1,1-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
1,1,2-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Trichloroethylene EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Vinyl chloride EPA 624	< 10	10	ug/l	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 624	95.0		%	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Surrogate: Dibromofluoromethane (85.0-115%) EPA 624	107		%	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Surrogate: Toluene-D8 (85.0-120%) EPA 624	98.9		%	
Prep: 13-May-2014 1350 by 301	Analyzed: 13-May-2014 2051 by 301		Batch: V8517	
Organochlorine Pesticides and PCBs By EPA 608				
Aldrin EPA 608	< 0.010	0.010	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
alpha-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
alpha-Endosulfan EPA 608	< 0.010	0.010	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
beta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
beta-Endosulfan EPA 608	< 0.020	0.020	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Chlordane EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Chlorpyrifos EPA 608	< 0.070	0.070	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
4,4'-DDD EPA 608	< 0.10	0.10	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
4,4'-DDE EPA 608	< 0.10	0.10	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 178499-3 (Continued)

Sample Identification: P Street Effluent 5/12/14 1408

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides and PCBs By EPA 608 (Continued)				
4,4'-DDT EPA 608	< 0.020	0.020	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
delta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Dieldrin EPA 608	< 0.020	0.020	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Endosulfan sulfate EPA 608	< 0.10	0.10	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Endrin EPA 608	< 0.020	0.020	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Endrin aldehyde EPA 608	< 0.10	0.10	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
gamma-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Heptachlor EPA 608	< 0.010	0.010	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Heptachlor epoxide EPA 608	< 0.010	0.010	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1016 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1221 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1232 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1242 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1248 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1254 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
PCB 1260 EPA 608	< 0.20	0.20	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Toxaphene EPA 608	< 0.30	0.30	ug/l	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 608	94.8		%	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 608	93.9		%	
Prep: 14-May-2014 1153 by 306	Analyzed: 14-May-2014 1833 by 306		Batch: G9711	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Solids	178599-1	33 wt %			16May14 0914 by 271	16May14 1551 by 271		
	Batch: W47742	Duplicate	7.93	10.0	16May14 0915 by 271	16May14 1551 by 271		
Base/Neutral and Acid Compounds								
Acenaphthene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Acenaphthylene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Anthracene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Benzidine	178490-1	< 50 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	0.00	14May14 1439 by 306	14May14 1901 by 301		
Benzo(a)anthracene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Benzo(a)pyrene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Benzo(g,h,i)perylene	178490-1	< 20 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Benzo(k)fluoranthene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
3,4-Benzofluoranthene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Bis(2-chloroethoxy)methane	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Bis(2-chloroethyl)ether	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Bis(2-chloroisopropyl)ether	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Bis(2-ethylhexyl)phthalate	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
4-Bromophenyl phenyl ether	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Butylbenzyl phthalate	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2-Chloronaphthalene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2-Chlorophenol	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
4-Chlorophenyl phenyl ether	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Chrysene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Di-n-butyl phthalate	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Di-n-octyl phthalate	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Dibenz(a,h)anthracene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961	Duplicate	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
3,3'-Dichlorobenzidine	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 5.0 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2,4-Dichlorophenol	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Diethyl phthalate	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Dimethyl phthalate	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2,4-Dimethylphenol	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
4,6-Dinitro-o-cresol	178490-1	< 50 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 50 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2,4-Dinitrophenol	178490-1	< 50 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 50 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2,4-Dinitrotoluene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2,6-Dinitrotoluene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
1,2-Diphenylhydrazine	178490-1	< 20 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 20 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Fluorene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Hexachlorobenzene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 5.0 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Hexachlorobutadiene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Hexachlorocyclopentadiene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Hexachloroethane	178490-1	< 20 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 20 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Indeno(1,2,3-cd)pyrene	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 5.0 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Isophorone	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
n-Nitrosodi-n-propylamine	178490-1	< 20 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 20 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
n-Nitrosodimethylamine	178490-1	< 50 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 50 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
n-Nitrosodiphenylamine	178490-1	< 20 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 20 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		R
Naphthalene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Nitrobenzene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2-Nitrophenol	178490-1	< 20 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 20 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
4-Nitrophenol	178490-1	< 50 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 50 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)								
p-Chloro-m-cresol	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Pentachlorophenol	178490-1	< 5.0 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 5.0 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Phenanthrene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Phenol	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
Pyrene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
1,2,4-Trichlorobenzene	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2,4,6-Trichlorophenol	178490-1	< 10 ug/l			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	< 10 ug/l	0.00	30.0	14May14 1439 by 306	14May14 1901 by 301		
2-Fluorobiphenyl (50.0-110%)	178490-1	85.0 %			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	84.6 %			14May14 1439 by 306	14May14 1901 by 301		
2-Fluorophenol (20.0-110%)	178490-1	58.9 %			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	56.0 %			14May14 1439 by 306	14May14 1901 by 301		
Nitrobenzene-D5 (40.0-110%)	178490-1	84.0 %			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	84.3 %			14May14 1439 by 306	14May14 1901 by 301		
Terphenyl-D14 (50.0-135%)	178490-1	89.1 %			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	86.8 %			14May14 1439 by 306	14May14 1901 by 301		
2,4,6-Tribromophenol (40.0-125%)	178490-1	48.5 %			14May14 1438 by 306	14May14 2016 by 301		
	Batch: B8961 Duplicate	47.7 %			14May14 1439 by 306	14May14 1901 by 301		
Organochlorine Pesticides and PCBs								
Aldrin	178490-1	< 0.010 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.010 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
alpha-BHC	178490-1	< 0.050 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.050 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
alpha-Endosulfan	178490-1	< 0.010 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.010 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
beta-BHC	178490-1	< 0.050 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.050 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
beta-Endosulfan	178490-1	< 0.020 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.020 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Chlorpyrifos	178490-1	< 0.070 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.070 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
4,4'-DDD	178490-1	< 0.10 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.10 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
4,4'-DDE	178490-1	< 0.10 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.10 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
4,4'-DDT	178490-1	< 0.020 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.020 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
delta-BHC	178490-1	< 0.050 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.050 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Dieldrin	178490-1	< 0.020 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.020 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Organochlorine Pesticides and PCBs (Continued)								
Endosulfan sulfate	178490-1	< 0.10 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.10 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Endrin	178490-1	< 0.020 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.020 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Endrin aldehyde	178490-1	< 0.10 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.10 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
gamma-BHC	178490-1	< 0.050 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.050 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Heptachlor	178490-1	< 0.010 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.010 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Heptachlor epoxide	178490-1	< 0.010 ug/l			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	< 0.010 ug/l	0.00	30.0	14May14 1153 by 306	14May14 1734 by 306		
Decachlorobiphenyl (30.0-135%)	178490-1	96.8 %			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	92.0 %			14May14 1153 by 306	14May14 1734 by 306		
Tetrachloro-m-xylene (25.0-140%)	178490-1	100 %			14May14 1153 by 306	14May14 1757 by 306		
	Batch: G9711 Duplicate	91.2 %			14May14 1153 by 306	14May14 1734 by 306		
Volatile Compounds								
Acetone	178471-1	< 0.2 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.2 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Benzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Bromobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Bromochloromethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Bromodichloromethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Bromoform	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Bromomethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
2-Butanone	178471-1	< 0.2 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.2 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Carbon disulfide	178471-1	< 0.2 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.2 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Carbon Tetrachloride	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Chlorobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Chloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
2-Chloroethyl vinyl ether	178471-1	< 0.02 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.02 mg/Kg	0.00	20.0	13May14 0838 by 301	13May14 2049 by 301		
Chloroform	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Chloromethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Compounds (Continued)								
2-Chlorotoluene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
4-Chlorotoluene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2-Dibromo-3-chloropropane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Dibromochloromethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2-Dibromoethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Dibromomethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2-Dichlorobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,3-Dichlorobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,4-Dichlorobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Dichlorodifluoromethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1-Dichloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2-Dichloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1-Dichloroethene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
cis-1,2-Dichloroethene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
trans-1,2-Dichloroethene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2-Dichloropropane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,3-Dichloropropane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
2,2-Dichloropropane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1-Dichloropropene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
cis-1,3-Dichloropropene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
trans-1,3-Dichloropropene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Ethylbenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Hexachlorobutadiene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
2-Hexanone	178471-1	< 0.06 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.06 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Isopropylbenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
m&p-Xylenes	178471-1	< 0.02 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.02 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
4-Methyl-2-pentanone	178471-1	< 0.06 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.06 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Methylene chloride	178471-1	< 0.03 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.03 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
n-Butylbenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
n-Propylbenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Naphthalene	178471-1	0.076 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	0.079 mg/Kg	3.68	30.0	13May14 0838 by 301	13May14 2049 by 301		
o-Xylene	178471-1	0.010 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	0.010 mg/Kg	4.64	30.0	13May14 0838 by 301	13May14 2049 by 301		
p-Isopropyltoluene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
sec-Butylbenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Styrene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
tert-Butylbenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1,1,2-Tetrachloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1,1,2-Tetrachloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Tetrachloroethene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Toluene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2,3-Trichlorobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2,4-Trichlorobenzene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1,1-Trichloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,1,2-Trichloroethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Trichloroethene	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
Trichlorofluoromethane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,2,3-Trichloropropane	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Compounds (Continued)								
1,2,4-Trimethylbenzene	178471-1	0.050 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	0.054 mg/Kg	8.48	30.0	13May14 0838 by 301	13May14 2049 by 301		
1,3,5-Trimethylbenzene	178471-1	0.043 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	0.036 mg/Kg	16.8	30.0	13May14 0838 by 301	13May14 2049 by 301		
Vinyl acetate	178471-1	< 0.06 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.06 mg/Kg	0.00	20.0	13May14 0838 by 301	13May14 2049 by 301		
Vinyl chloride	178471-1	< 0.006 mg/Kg			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	< 0.006 mg/Kg	0.00	30.0	13May14 0838 by 301	13May14 2049 by 301		
4-Bromofluorobenzene (85.0-120%)	178471-1	97.6 %			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	103 %			13May14 0838 by 301	13May14 2049 by 301		
Dibromofluoromethane (80.0-120%)	178471-1	97.8 %			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	104 %			13May14 0838 by 301	13May14 2049 by 301		
Toluene-D8 (85.0-115%)	178471-1	102 %			13May14 0838 by 301	13May14 2013 by 301		
	Batch: V8516 Duplicate	101 %			13May14 0838 by 301	13May14 2049 by 301		
Volatile Organic Compounds								
Acrolein	178369-3	< 2.5 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 2.5 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Acrylonitrile	178369-3	< 2.5 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 2.5 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Benzene	178369-3	8.6 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	8.9 ug/l	2.74	30.0	13May14 1031 by 301	13May14 1610 by 301		
Bromodichloromethane	178369-3	< 0.17 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.17 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Bromoform	178369-3	< 0.26 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.26 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Bromomethane	178369-3	< 0.16 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.16 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Carbon tetrachloride	178369-3	< 0.21 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.21 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Chlorobenzene	178369-3	< 0.11 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.11 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Chloroethane	178369-3	< 0.35 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.35 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
2-Chloroethyl vinyl ether	178369-3	< 0.24 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.24 ug/l	0.00	20.0	13May14 1031 by 301	13May14 1610 by 301		
Chloroform	178369-3	3.8 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	3.8 ug/l	1.84	30.0	13May14 1031 by 301	13May14 1610 by 301		
Chloromethane	178369-3	< 0.19 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.19 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Dibromochloromethane	178369-3	< 0.11 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.11 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,2-Dichlorobenzene	178369-3	< 0.50 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.50 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,3-Dichlorobenzene	178369-3	< 0.20 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.20 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,4-Dichlorobenzene	178369-3	< 0.50 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.50 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)								
1,1-Dichloroethane	178369-3	< 0.15 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.15 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,2-Dichloroethane	178369-3	110 ug/l			13May14 1030 by 301	14May14 1334 by 301	5	D
	Batch: V8517 Duplicate	110 ug/l	3.57	30.0	13May14 1031 by 301	14May14 1411 by 301	5	D
1,1-Dichloroethene	178369-3	< 0.24 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.24 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
trans-1,2-Dichloroethene	178369-3	0.31 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	0.32 ug/l	3.17	30.0	13May14 1031 by 301	13May14 1610 by 301		J
1,2-Dichloropropane	178369-3	< 0.19 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.19 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Ethylbenzene	178369-3	< 0.12 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.12 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
Methylene chloride	178369-3	1.6 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	1.6 ug/l	3.17	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,1,2,2-Tetrachloroethane	178369-3	4.4 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	4.5 ug/l	3.60	30.0	13May14 1031 by 301	13May14 1610 by 301		
Tetrachloroethene	178369-3	0.64 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	0.68 ug/l	6.06	30.0	13May14 1031 by 301	13May14 1610 by 301		
Toluene	178369-3	< 0.16 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.16 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,1,1-Trichloroethane	178369-3	< 0.13 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	< 0.13 ug/l	0.00	30.0	13May14 1031 by 301	13May14 1610 by 301		
1,1,2-Trichloroethane	178369-3	0.70 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	0.66 ug/l	5.88	30.0	13May14 1031 by 301	13May14 1610 by 301		
Trichloroethene	178369-3	1.3 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	1.3 ug/l	0.772	30.0	13May14 1031 by 301	13May14 1610 by 301		
Vinyl chloride	178369-3	4.3 ug/l			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	4.3 ug/l	0.930	30.0	13May14 1031 by 301	13May14 1610 by 301		
4-Bromofluorobenzene (75.0-120%)	178369-3	96.1 %			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	96.5 %			13May14 1031 by 301	13May14 1610 by 301		
Dibromofluoromethane (85.0-115%)	178369-3	108 %			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	108 %			13May14 1031 by 301	13May14 1610 by 301		
Toluene-D8 (85.0-120%)	178369-3	99.2 %			13May14 1030 by 301	13May14 1532 by 301		D
	Batch: V8517 Duplicate	98.6 %			13May14 1031 by 301	13May14 1610 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	99.1	85.0-115			W47697	14May14 0810 by 308	14May14 1130 by 308		
Chromium, Hexavalent	0.05 mg/l	100	80.0-120			W47688	13May14 1420 by 308	13May14 1530 by 308		
Total Cyanide	0.1 mg/l	99.9	85.0-115			W47679	13May14 0905 by 308	13May14 1546 by 308		
Mercury, low level	0.01 ug/l	110	76.0-113			S36804	16May14 0910 by 311	16May14 1101 by 311		
Total Recoverable Antimony	0.05 mg/l	98.5	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Arsenic	0.05 mg/l	102	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Beryllium	0.05 mg/l	95.5	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Cadmium	0.05 mg/l	101	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Chromium	0.05 mg/l	100	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Copper	0.05 mg/l	102	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Lead	0.05 mg/l	98.9	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Molybdenum	0.05 mg/l	100	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Nickel	0.05 mg/l	102	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Selenium	0.05 mg/l	95.9	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Silver	0.02 mg/l	99.6	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Thallium	0.05 mg/l	101	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Recoverable Zinc	0.05 mg/l	111	85.0-115			S36787	13May14 1341 by 285	14May14 1712 by 305		
Total Cyanide	0.500 mg/Kg	90.9	85.0-115			W47721	15May14 0820 by 308	15May14 1254 by 308		
Total Recoverable Phenolics	10.0 mg/Kg	102	85.0-115			W47720	15May14 0820 by 308	15May14 1500 by 308		
Antimony	500 mg/Kg	104	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Arsenic	500 mg/Kg	101	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Beryllium	50.0 mg/Kg	101	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Cadmium	500 mg/Kg	102	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Chromium	50.0 mg/Kg	105	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Copper	50.0 mg/Kg	103	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Lead	500 mg/Kg	105	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Molybdenum	50.0 mg/Kg	103	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Nickel	50.0 mg/Kg	106	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Selenium	500 mg/Kg	96.4	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Silver	10.0 mg/Kg	103	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Thallium	500 mg/Kg	108	85.0-115			S36811	19May14 1016 by 285	19May14 1534 by 305		
Zinc	50.0 mg/Kg	94.8	85.0-115			S36811	19May14 1016 by 285	20May14 1106 by 305		
Mercury	1.25 mg/Kg	85.4	85.0-115			S36810	19May14 0933 by 311	19May14 1159 by 311		
Base/Neutral and Acid Compounds										
Acenaphthene	40 ug/l	78.1	45.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Acenaphthylene	40 ug/l	79.2	50.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
Anthracene	40 ug/l	80.1	55.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Benzidine	100 ug/l	18.7	0.00-61.1			B8961	14May14 1439 by 306	14May14 1745 by 301		
Benzo(a)anthracene	40 ug/l	80.2	55.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Benzo(a)pyrene	40 ug/l	82.6	55.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Benzo(g,h,i)perylene	40 ug/l	72.6	40.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Benzo(k)fluoranthene	40 ug/l	86.3	45.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
3,4-Benzofluoranthene	40 ug/l	86.4	45.0-120			B8961	14May14 1439 by 306	14May14 1745 by 301		
Bis(2-chloroethoxy)methane	40 ug/l	75.1	45.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
Bis(2-chloroethyl)ether	40 ug/l	76.7	35.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Bis(2-chloroisopropyl)ether	40 ug/l	79.3	25.0-130			B8961	14May14 1439 by 306	14May14 1745 by 301		
Bis(2-ethylhexyl)phthalate	40 ug/l	92.2	40.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
4-Bromophenyl phenyl ether	40 ug/l	75.6	50.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Butylbenzyl phthalate	40 ug/l	90.0	45.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
2-Chloronaphthalene	40 ug/l	77.3	50.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
2-Chlorophenol	40 ug/l	75.6	35.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
4-Chlorophenyl phenyl ether	40 ug/l	76.7	50.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Chrysene	40 ug/l	81.5	55.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Di-n-butyl phthalate	40 ug/l	84.4	55.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Di-n-octyl phthalate	40 ug/l	82.0	35.0-135			B8961	14May14 1439 by 306	14May14 1745 by 301		
Dibenz(a,h)anthracene	40 ug/l	72.7	40.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
1,2-Dichlorobenzene	40 ug/l	72.7	35.0-100			B8961	14May14 1439 by 306	14May14 1745 by 301		
1,3-Dichlorobenzene	40 ug/l	70.6	30.0-100			B8961	14May14 1439 by 306	14May14 1745 by 301		
1,4-Dichlorobenzene	40 ug/l	70.6	30.0-100			B8961	14May14 1439 by 306	14May14 1745 by 301		
3,3'-Dichlorobenzidine	40 ug/l	59.2	20.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,4-Dichlorophenol	40 ug/l	72.6	50.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
Diethyl phthalate	40 ug/l	83.8	40.0-120			B8961	14May14 1439 by 306	14May14 1745 by 301		
Dimethyl phthalate	40 ug/l	82.0	25.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,4-Dimethylphenol	40 ug/l	67.4	30.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
4,6-Dinitro-o-cresol	40 ug/l	63.9	40.0-130			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,4-Dinitrophenol	40 ug/l	49.2	15.0-140			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,4-Dinitrotoluene	40 ug/l	79.5	50.0-120			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,6-Dinitrotoluene	40 ug/l	80.4	50.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
1,2-Diphenylhydrazine	40 ug/l	83.9	55.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Fluorene	40 ug/l	80.6	50.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Hexachlorobenzene	40 ug/l	77.0	50.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Hexachlorobutadiene	40 ug/l	73.4	25.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
Hexachlorocyclopentadiene	40 ug/l	75.8	35.0-102			B8961	14May14 1439 by 306	14May14 1745 by 301		
Hexachloroethane	40 ug/l	74.6	30.0-100			B8961	14May14 1439 by 306	14May14 1745 by 301		
Indeno(1,2,3-cd)pyrene	40 ug/l	76.5	45.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
Isophorone	40 ug/l	75.4	50.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
n-Nitrosodi-n-propylamine	40 ug/l	81.4	35.0-130			B8961	14May14 1439 by 306	14May14 1745 by 301		
n-Nitrosodimethylamine	40 ug/l	65.3	25.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
n-Nitrosodiphenylamine	40 ug/l	79.2	50.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Naphthalene	40 ug/l	75.4	40.0-100			B8961	14May14 1439 by 306	14May14 1745 by 301		
Nitrobenzene	40 ug/l	78.0	45.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
2-Nitrophenol	40 ug/l	72.1	40.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
4-Nitrophenol	40 ug/l	45.3	0.00-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
p-Chloro-m-cresol	40 ug/l	79.0	45.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Pentachlorophenol	40 ug/l	58.5	40.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Phenanthrene	40 ug/l	79.8	50.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Phenol	40 ug/l	45.8	0.00-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Pyrene	40 ug/l	* 84.5	50.0-130			B8961	14May14 1439 by 306	14May14 1745 by 301		
1,2,4-Trichlorobenzene	40 ug/l	72.2	35.0-105			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,4,6-Trichlorophenol	40 ug/l	75.7	50.0-115			B8961	14May14 1439 by 306	14May14 1745 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	82.4	50.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
2-Fluorophenol	40 ug/l	60.2	20.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Nitrobenzene-D5	40 ug/l	80.5	40.0-110			B8961	14May14 1439 by 306	14May14 1745 by 301		
Terphenyl-D14	40 ug/l	87.6	50.0-135			B8961	14May14 1439 by 306	14May14 1745 by 301		
2,4,6-Tribromophenol	40 ug/l	76.2	40.0-125			B8961	14May14 1439 by 306	14May14 1745 by 301		
Volatile Organic Compounds										
Acrolein	100 ug/l	80.9	33.0-154			V8517	13May14 1031 by 301	13May14 1135 by 301		
Acrylonitrile	100 ug/l	99.1	64.4-133			V8517	13May14 1031 by 301	13May14 1135 by 301		
Benzene	20 ug/l	102	80.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
Bromodichloromethane	20 ug/l	96.8	75.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
Bromoform	20 ug/l	89.6	70.0-130			V8517	13May14 1031 by 301	13May14 1135 by 301		
Bromomethane	20 ug/l	113	30.0-145			V8517	13May14 1031 by 301	13May14 1135 by 301		
Carbon tetrachloride	20 ug/l	99.2	65.0-140			V8517	13May14 1031 by 301	13May14 1135 by 301		
Chlorobenzene	20 ug/l	102	80.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
Chloroethane	20 ug/l	120	60.0-135			V8517	13May14 1031 by 301	13May14 1135 by 301		
2-Chloroethyl vinyl ether	40 ug/l	102	69.9-126			V8517	13May14 1031 by 301	13May14 1135 by 301		
Chloroform	20 ug/l	97.3	65.0-135			V8517	13May14 1031 by 301	13May14 1135 by 301		
Chloromethane	20 ug/l	98.8	40.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		
Dibromochloromethane	20 ug/l	95.6	60.0-135			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,2-Dichlorobenzene	20 ug/l	100	70.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,3-Dichlorobenzene	20 ug/l	98.2	75.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,4-Dichlorobenzene	20 ug/l	99.7	75.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,1-Dichloroethane	20 ug/l	105	70.0-135			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,2-Dichloroethane	20 ug/l	103	70.0-130			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,1-Dichloroethene	20 ug/l	109	70.0-130			V8517	13May14 1031 by 301	13May14 1135 by 301		
trans-1,2-Dichloroethene	20 ug/l	107	60.0-140			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,2-Dichloropropane	20 ug/l	102	75.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,3-Dichloropropylene	20 ug/l	96.8	70.0-130			V8517	13May14 1031 by 301	13May14 1135 by 301		
Ethylbenzene	20 ug/l	97.8	75.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Methylene chloride	20 ug/l	85.0	55.0-140			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,1,2,2-Tetrachloroethane	20 ug/l	99.2	65.0-130			V8517	13May14 1031 by 301	13May14 1135 by 301		
Tetrachloroethene	20 ug/l	103	45.0-150			V8517	13May14 1031 by 301	13May14 1135 by 301		
Toluene	20 ug/l	99.2	75.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,1,1-Trichloroethane	20 ug/l	98.6	65.0-130			V8517	13May14 1031 by 301	13May14 1135 by 301		
1,1,2-Trichloroethane	20 ug/l	101	75.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		
Trichloroethene	20 ug/l	102	70.0-125			V8517	13May14 1031 by 301	13May14 1135 by 301		
Vinyl chloride	20 ug/l	110	50.0-145			V8517	13May14 1031 by 301	13May14 1135 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	97.9	75.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
Dibromofluoromethane	50 ug/l	99.1	85.0-115			V8517	13May14 1031 by 301	13May14 1135 by 301		
Toluene-D8	50 ug/l	98.6	85.0-120			V8517	13May14 1031 by 301	13May14 1135 by 301		
Organochlorine Pesticides and PCBs										
Aldrin	10 ug/l	82.0	25.0-140			G9711	14May14 1153 by 306	14May14 1711 by 306		
alpha-BHC	10 ug/l	83.8	60.0-130			G9711	14May14 1153 by 306	14May14 1711 by 306		
alpha-Endosulfan	10 ug/l	84.2	50.0-110			G9711	14May14 1153 by 306	14May14 1711 by 306		
beta-BHC	10 ug/l	84.3	65.0-125			G9711	14May14 1153 by 306	14May14 1711 by 306		
beta-Endosulfan	10 ug/l	98.7	30.0-130			G9711	14May14 1153 by 306	14May14 1711 by 306		
Chlorpyrifos	10 ug/l	89.6	55.4-122			G9711	14May14 1153 by 306	14May14 1711 by 306		
4,4'-DDD	10 ug/l	87.7	25.0-150			G9711	14May14 1153 by 306	14May14 1711 by 306		
4,4'-DDE	10 ug/l	84.7	35.0-140			G9711	14May14 1153 by 306	14May14 1711 by 306		
4,4'-DDT	10 ug/l	125	45.0-140			G9711	14May14 1153 by 306	14May14 1711 by 306		
delta-BHC	10 ug/l	89.6	45.0-135			G9711	14May14 1153 by 306	14May14 1711 by 306		
Dieldrin	10 ug/l	90.2	60.0-130			G9711	14May14 1153 by 306	14May14 1711 by 306		
Endosulfan sulfate	10 ug/l	93.6	55.0-135			G9711	14May14 1153 by 306	14May14 1711 by 306		
Endrin	10 ug/l	93.5	55.0-135			G9711	14May14 1153 by 306	14May14 1711 by 306		
Endrin aldehyde	10 ug/l	98.7	55.0-135			G9711	14May14 1153 by 306	14May14 1711 by 306		
gamma-BHC	10 ug/l	87.3	25.0-135			G9711	14May14 1153 by 306	14May14 1711 by 306		
Heptachlor	10 ug/l	89.5	40.0-130			G9711	14May14 1153 by 306	14May14 1711 by 306		
Heptachlor epoxide	10 ug/l	86.5	60.0-130			G9711	14May14 1153 by 306	14May14 1711 by 306		
Organochlorine Pesticides and PCBs Surrogates:										
Decachlorobiphenyl	20 ug/l	89.8	30.0-135			G9711	14May14 1153 by 306	14May14 1711 by 306		
Tetrachloro-m-xylene	20 ug/l	102	25.0-140			G9711	14May14 1153 by 306	14May14 1711 by 306		
Base/Neutral and Acid Compounds										
3 & 4-Methylphenol	2670 ug/Kg	79.4	40.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	85.1	40.0-105	6.99	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Acenaphthene	2670 ug/Kg	78.0	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	81.6	45.0-110	4.45	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Acenaphthylene	2670 ug/Kg	79.6	45.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	81.8	45.0-105	2.67	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Anthracene	2670 ug/Kg	81.0	55.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.0	55.0-105	1.26	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzo(a)anthracene	2670 ug/Kg	82.4	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.2	50.0-110	0.273	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzo(a)pyrene	2670 ug/Kg	86.0	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.4	50.0-110	4.25	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzo(b)fluoranthene	2670 ug/Kg	86.5	45.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.8	45.0-115	8.02	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzo(g,h,i)perylene	2670 ug/Kg	80.4	40.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.0	40.0-125	1.91	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzo(k)fluoranthene	2670 ug/Kg	84.5	45.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.4	45.0-125	6.22	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzoic acid	6670 ug/Kg	75.4	0.00-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	6670 ug/Kg	77.7	0.00-110	2.95	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Benzyl alcohol	2670 ug/Kg	80.0	20.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	86.5	20.0-125	7.78	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
bis(2-Chloroethoxy)Methane	2670 ug/Kg	75.3	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.9	45.0-110	5.96	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
bis(2-Chloroethyl)Ether	2670 ug/Kg	76.7	40.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.8	40.0-105	8.94	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
bis(2-Chloroisopropyl)Ether	2670 ug/Kg	78.0	20.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.1	20.0-115	7.46	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
bis(2-Ethylhexyl)Phthalate	2670 ug/Kg	98.6	45.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	98.7	45.0-125	0.177	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4-Bromophenyl phenyl ether	2670 ug/Kg	75.6	45.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.6	45.0-115	10.0	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Butyl benzyl phthalate	2670 ug/Kg	90.0	50.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	89.4	50.0-125	0.613	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4-Chloro-3-methylphenol	2670 ug/Kg	80.1	45.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.4	45.0-115	4.07	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4-Chloroaniline	2670 ug/Kg	58.2	10.0-100			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	59.6	10.0-100	2.38	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Chloronaphthalene	2670 ug/Kg	78.1	45.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.7	45.0-105	3.27	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Chlorophenol	2670 ug/Kg	77.0	45.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.1	45.0-105	8.85	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4-Chlorophenyl phenyl ether	2670 ug/Kg	77.8	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.2	45.0-110	3.16	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Chrysene	2670 ug/Kg	82.2	55.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.5	55.0-110	0.395	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Di-n-butyl phthalate	2670 ug/Kg	91.0	55.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.1	55.0-110	7.97	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Di-n-octyl phthalate	2670 ug/Kg	89.5	40.0-130			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	76.1	40.0-130	16.2	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Dibenz(a,h)anthracene	2670 ug/Kg	80.0	40.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.7	40.0-125	4.58	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Dibenzofuran	2670 ug/Kg	80.2	50.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.6	50.0-105	2.98	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
1,2-Dichlorobenzene	2670 ug/Kg	73.9	45.0-100			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.2	45.0-100	6.96	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
1,3-Dichlorobenzene	2670 ug/Kg	73.4	40.0-100			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.3	40.0-100	9.08	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
1,4-Dichlorobenzene	2670 ug/Kg	72.8	35.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.5	35.0-105	8.76	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
3,3'-Dichlorobenzidine	2670 ug/Kg	84.0	10.0-130			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	89.6	10.0-130	6.51	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4-Dichlorophenol	2670 ug/Kg	74.2	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.8	45.0-110	7.17	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Diethyl phthalate	2670 ug/Kg	84.4	50.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.6	50.0-115	0.118	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Dimethyl phthalate	2670 ug/Kg	83.0	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.8	50.0-110	0.929	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4-Dimethylphenol	2670 ug/Kg	75.6	30.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.6	30.0-105	6.37	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4,6-Dinitro-2-methylphenol	2670 ug/Kg	84.6	30.0-135			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.9	30.0-135	0.354	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4-Dinitrophenol	2670 ug/Kg	86.2	15.0-130			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	87.3	15.0-130	1.35	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4-Dinitrotoluene	2670 ug/Kg	77.8	50.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.1	50.0-115	1.69	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,6-Dinitrotoluene	2670 ug/Kg	78.5	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	81.0	50.0-110	3.04	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Fluoranthene	2670 ug/Kg	87.8	55.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	76.2	55.0-115	14.1	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Fluorene	2670 ug/Kg	80.0	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	81.5	50.0-110	1.92	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Hexachlorobenzene	2670 ug/Kg	76.7	45.0-120			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	81.6	45.0-120	6.16	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Hexachlorobutadiene	2670 ug/Kg	74.9	40.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.9	40.0-115	6.40	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Hexachlorocyclopentadiene	2670 ug/Kg	94.6	23.6-112			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	101	23.6-112	6.74	46.1	B8965	15May14 0928 by 301	15May14 1731 by 301		
Hexachloroethane	2670 ug/Kg	76.2	35.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.9	35.0-110	8.33	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Indeno(1,2,3-cd)pyrene	2670 ug/Kg	82.2	40.0-120			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	85.6	40.0-120	3.99	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Isophorone	2670 ug/Kg	76.7	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.2	45.0-110	4.46	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Methylnaphthalene	2670 ug/Kg	73.6	45.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	79.1	45.0-105	7.27	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Methylphenol	2670 ug/Kg	78.0	40.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.6	40.0-105	6.99	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
N-Nitroso-di-n-propylamine	2670 ug/Kg	77.8	40.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.1	40.0-115	6.65	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
n-Nitrosodiphenylamine	2670 ug/Kg	78.4	50.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	86.1	50.0-115	9.36	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Naphthalene	2670 ug/Kg	76.0	40.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.6	40.0-105	5.91	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Nitroaniline	2670 ug/Kg	83.4	45.0-120			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	87.0	45.0-120	4.26	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
3-Nitroaniline	2670 ug/Kg	71.7	25.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	71.7	25.0-110	0.0697	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4-Nitroaniline	2670 ug/Kg	80.0	35.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	74.1	35.0-115	7.72	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Nitrobenzene	2670 ug/Kg	78.0	40.0-115			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.2	40.0-115	7.64	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Nitrophenol	2670 ug/Kg	77.4	40.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.5	40.0-110	8.81	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
4-Nitrophenol	2670 ug/Kg	90.6	15.0-140			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	80.2	15.0-140	12.2	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Pentachlorophenol	2670 ug/Kg	86.4	25.0-120			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.2	25.0-120	3.83	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Phenanthrene	2670 ug/Kg	80.0	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	82.6	50.0-110	3.20	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Phenol	2670 ug/Kg	77.0	40.0-100			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.7	40.0-100	8.34	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Pyrene	2670 ug/Kg	66.0	45.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	70.8	45.0-125	6.91	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
1,2,4-Trichlorobenzene	2670 ug/Kg	72.7	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	78.2	45.0-110	7.32	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4,5-Trichlorophenol	2670 ug/Kg	78.2	50.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.2	50.0-110	6.32	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4,6-Trichlorophenol	2670 ug/Kg	80.4	45.0-110			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	83.2	45.0-110	3.36	30.0	B8965	15May14 0928 by 301	15May14 1731 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	2670 ug/Kg	83.1	45.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	84.5	45.0-105	-	-	B8965	15May14 0928 by 301	15May14 1731 by 301		
2-Fluorophenol	2670 ug/Kg	81.0	35.0-105			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	88.0	35.0-105	-	-	B8965	15May14 0928 by 301	15May14 1731 by 301		
Nitrobenzene-D5	2670 ug/Kg	80.8	35.0-100			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	87.5	35.0-100	-	-	B8965	15May14 0928 by 301	15May14 1731 by 301		
Terphenyl-D14	2670 ug/Kg	71.5	30.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	75.0	30.0-125	-	-	B8965	15May14 0928 by 301	15May14 1731 by 301		
2,4,6-Tribromophenol	2670 ug/Kg	84.8	35.0-125			B8965	15May14 0928 by 301	15May14 1655 by 301		
	2670 ug/Kg	88.4	35.0-125	-	-	B8965	15May14 0928 by 301	15May14 1731 by 301		
Volatile Organic Compounds										
Acetone	40.0 ug/Kg	91.1	20.0-160			V8516	13May14 0838 by 301	13May14 1748 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Benzene	20.0 ug/Kg	105	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Bromobenzene	20.0 ug/Kg	107	65.0-120			V8516	13May14 0838 by 301	13May14 1748 by 301		
Bromochloromethane	20.0 ug/Kg	114	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Bromodichloromethane	20.0 ug/Kg	106	70.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
Bromoform	20.0 ug/Kg	106	55.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
Bromomethane	20.0 ug/Kg	110	30.0-160			V8516	13May14 0838 by 301	13May14 1748 by 301		
2-Butanone	40.0 ug/Kg	102	30.0-160			V8516	13May14 0838 by 301	13May14 1748 by 301		
Carbon disulfide	40.0 ug/Kg	108	45.0-160			V8516	13May14 0838 by 301	13May14 1748 by 301		
Carbon tetrachloride	20.0 ug/Kg	106	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
Chlorobenzene	20.0 ug/Kg	109	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Chloroethane	20.0 ug/Kg	101	40.0-155			V8516	13May14 0838 by 301	13May14 1748 by 301		
2-Chloroethyl vinyl ether	40.0 ug/Kg	105	65.9-126			V8516	13May14 0838 by 301	13May14 1748 by 301		
Chloroform	20.0 ug/Kg	111	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Chloromethane	20.0 ug/Kg	105	50.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
2-Chlorotoluene	20.0 ug/Kg	108	70.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
4-Chlorotoluene	20.0 ug/Kg	104	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2-Dibromo-3-chloropropane	20.0 ug/Kg	106	40.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
Dibromochloromethane	20.0 ug/Kg	109	65.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2-Dibromoethane	20.0 ug/Kg	103	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Dibromomethane	20.0 ug/Kg	119	75.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2-Dichlorobenzene	20.0 ug/Kg	107	75.0-120			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,3-Dichlorobenzene	20.0 ug/Kg	109	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,4-Dichlorobenzene	20.0 ug/Kg	109	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Dichlorodifluoromethane	20.0 ug/Kg	108	35.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1-Dichloroethane	20.0 ug/Kg	107	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2-Dichloroethane	20.0 ug/Kg	106	70.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1-Dichloroethene	20.0 ug/Kg	113	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
cis-1,2-Dichloroethene	20.0 ug/Kg	114	65.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
trans-1,2-Dichloroethene	20.0 ug/Kg	119	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2-Dichloropropane	20.0 ug/Kg	99.6	70.0-120			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,3-Dichloropropane	20.0 ug/Kg	107	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
2,2-Dichloropropane	20.0 ug/Kg	110	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1-Dichloropropene	20.0 ug/Kg	101	70.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
cis-1,3-Dichloropropene	20.0 ug/Kg	102	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
trans-1,3-Dichloropropene	20.0 ug/Kg	97.3	65.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Ethylbenzene	20.0 ug/Kg	112	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Hexachlorobutadiene	20.0 ug/Kg	111	55.0-140			V8516	13May14 0838 by 301	13May14 1748 by 301		
2-Hexanone	40.0 ug/Kg	103	45.0-145			V8516	13May14 0838 by 301	13May14 1748 by 301		
Isopropylbenzene	20.0 ug/Kg	107	75.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
m&p-Xylenes	40.0 ug/Kg	108	80.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
4-Methyl-2-pentanone	40.0 ug/Kg	107	45.0-145			V8516	13May14 0838 by 301	13May14 1748 by 301		
Methylene chloride	20.0 ug/Kg	125	55.0-140			V8516	13May14 0838 by 301	13May14 1748 by 301		
n-Butylbenzene	20.0 ug/Kg	111	65.0-140			V8516	13May14 0838 by 301	13May14 1748 by 301		
n-Propylbenzene	20.0 ug/Kg	115	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
Naphthalene	20.0 ug/Kg	110	40.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
o-Xylene	20.0 ug/Kg	106	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
p-Isopropyltoluene	20.0 ug/Kg	108	75.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
sec-Butylbenzene	20.0 ug/Kg	112	65.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
Styrene	20.0 ug/Kg	106	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
tert-Butylbenzene	20.0 ug/Kg	105	65.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1,1,2-Tetrachloroethane	20.0 ug/Kg	110	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1,2,2-Tetrachloroethane	20.0 ug/Kg	109	55.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
Tetrachloroethene	20.0 ug/Kg	108	65.0-140			V8516	13May14 0838 by 301	13May14 1748 by 301		
Toluene	20.0 ug/Kg	105	70.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2,3-Trichlorobenzene	20.0 ug/Kg	113	60.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2,4-Trichlorobenzene	20.0 ug/Kg	112	65.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1,1-Trichloroethane	20.0 ug/Kg	110	70.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,1,2-Trichloroethane	20.0 ug/Kg	102	60.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Trichloroethene	20.0 ug/Kg	101	75.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Trichlorofluoromethane	20.0 ug/Kg	110	25.0-185			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2,3-Trichloropropane	20.0 ug/Kg	108	65.0-130			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,2,4-Trimethylbenzene	20.0 ug/Kg	109	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
1,3,5-Trimethylbenzene	20.0 ug/Kg	112	65.0-135			V8516	13May14 0838 by 301	13May14 1748 by 301		
Vinyl acetate	40.0 ug/Kg	106	49.8-129			V8516	13May14 0838 by 301	13May14 1748 by 301		
Vinyl chloride	20.0 ug/Kg	105	60.0-125			V8516	13May14 0838 by 301	13May14 1748 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50.0 ug/Kg	101	85.0-120			V8516	13May14 0838 by 301	13May14 1748 by 301		
Dibromofluoromethane	50.0 ug/Kg	107	80.0-120			V8516	13May14 0838 by 301	13May14 1748 by 301		
Toluene-D8	50.0 ug/Kg	104	85.0-115			V8516	13May14 0838 by 301	13May14 1748 by 301		
Organochlorine Pesticides										
Aldrin	6.66 ug/Kg	82.7	45.0-140			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	82.5	45.0-140	0.242	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
alpha-BHC	6.66 ug/Kg	90.2	60.0-125			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	90.1	60.0-125	0.111	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
alpha-Endosulfan	6.66 ug/Kg	81.8	15.0-135			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	81.9	15.0-135	0.122	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
beta-BHC	6.66 ug/Kg	90.6	60.0-125			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	90.9	60.0-125	0.331	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
beta-Endosulfan	6.66 ug/Kg	87.0	35.0-140			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	87.0	35.0-140	0.00	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
4,4'-DDD	6.66 ug/Kg	77.6	30.0-135			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	77.6	30.0-135	0.00	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
4,4'-DDE	6.66 ug/Kg	83.7	70.0-125			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	84.0	70.0-125	0.358	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
4,4'-DDT	6.66 ug/Kg	106	45.0-140			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	109	45.0-140	2.24	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
delta-BHC	6.66 ug/Kg	86.5	55.0-130			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	87.6	55.0-130	1.27	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Dieldrin	6.66 ug/Kg	85.9	65.0-125			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	86.0	65.0-125	0.116	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Endosulfan sulfate	6.66 ug/Kg	86.8	60.0-135			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	90.9	60.0-135	4.62	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Endrin	6.66 ug/Kg	86.3	60.0-135			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	87.2	60.0-135	1.04	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Endrin aldehyde	6.66 ug/Kg	86.4	35.0-145			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	90.6	35.0-145	4.75	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
gamma-BHC	6.66 ug/Kg	86.3	60.0-125			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	86.9	60.0-125	0.694	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Heptachlor	6.66 ug/Kg	90.3	50.0-140			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	90.4	50.0-140	0.111	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Heptachlor epoxide	6.66 ug/Kg	83.2	65.0-130			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	83.5	65.0-130	0.360	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Methoxychlor	6.66 ug/Kg	107	55.0-145			G9712	15May14 1001 by 301	19May14 1534 by 306		
	6.66 ug/Kg	109	55.0-145	1.95	30.0	G9712	15May14 1001 by 301	19May14 1546 by 306		
Organochlorine Pesticides Surrogates:										
Decachlorobiphenyl	13.3 ug/Kg	83.5	55.0-130			G9712	15May14 1001 by 301	19May14 1534 by 306		
	13.3 ug/Kg	84.4	55.0-130	-	-	G9712	15May14 1001 by 301	19May14 1546 by 306		
Tetrachloro-m-xylene	13.3 ug/Kg	82.2	70.0-125			G9712	15May14 1001 by 301	19May14 1534 by 306		
	13.3 ug/Kg	83.0	70.0-125	-	-	G9712	15May14 1001 by 301	19May14 1546 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	178527-1	0.1 mg/l	86.6	80.0-120	W47697	14May14 0810 by 308	14May14 1130 by 308		
	178527-1	0.1 mg/l	86.0	80.0-120	W47697	14May14 0810 by 308	14May14 1130 by 308		
	Relative Percent Difference:		0.543	10.0	W47697				
Chromium, Hexavalent	178439-1	0.05 mg/l	98.4	80.0-120	W47688	13May14 1420 by 308	13May14 1530 by 308		
	178439-1	0.05 mg/l	99.6	80.0-120	W47688	13May14 1420 by 308	13May14 1530 by 308		
	Relative Percent Difference:		1.21	25.0	W47688				
Total Cyanide	178439-1	0.1 mg/l	99.9	75.0-125	W47679	13May14 0905 by 308	13May14 1549 by 308		
	178439-1	0.1 mg/l	87.5	75.0-125	W47679	13May14 0905 by 308	13May14 1551 by 308		
	Relative Percent Difference:		12.9	20.0	W47679				
Mercury, low level	178490-1	0.01 ug/l	98.6	63.0-111	S36804	16May14 0910 by 311	16May14 1106 by 311		
	178490-1	0.01 ug/l	105	63.0-111	S36804	16May14 0910 by 311	16May14 1111 by 311		
	Relative Percent Difference:		5.66	18.0	S36804				
Total Recoverable Antimony	178490-1	0.05 mg/l	95.4	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	95.9	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.562	20.0	S36787				
Total Recoverable Arsenic	178490-1	0.05 mg/l	98.6	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	101	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		2.86	20.0	S36787				
Total Recoverable Beryllium	178490-1	0.05 mg/l	94.6	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	94.8	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.234	20.0	S36787				
Total Recoverable Cadmium	178490-1	0.05 mg/l	98.0	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	98.1	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.142	20.0	S36787				
Total Recoverable Chromium	178490-1	0.05 mg/l	98.2	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	97.6	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.625	20.0	S36787				
Total Recoverable Copper	178490-1	0.05 mg/l	100	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	99.2	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.823	20.0	S36787				
Total Recoverable Lead	178490-1	0.05 mg/l	98.1	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	98.4	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.304	20.0	S36787				
Total Recoverable Molybdenum	178490-1	0.05 mg/l	98.4	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	96.7	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		1.67	20.0	S36787				
Total Recoverable Nickel	178490-1	0.05 mg/l	101	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	100	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.265	20.0	S36787				
Total Recoverable Selenium	178490-1	0.05 mg/l	91.4	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	90.5	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.915	20.0	S36787				
Total Recoverable Silver	178490-1	0.02 mg/l	100	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.02 mg/l	99.7	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.559	20.0	S36787				
Total Recoverable Thallium	178490-1	0.05 mg/l	99.7	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	100	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.668	20.0	S36787				
Total Recoverable Zinc	178490-1	0.05 mg/l	98.2	75.0-125	S36787	13May14 1341 by 285	14May14 1717 by 305		
	178490-1	0.05 mg/l	97.6	75.0-125	S36787	13May14 1341 by 285	14May14 1722 by 305		
	Relative Percent Difference:		0.484	20.0	S36787				

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	178499-2	0.996 mg/Kg	84.3	75.0-125	W47721	15May14 0820 by 308	15May14 1258 by 308		
	178499-2	0.999 mg/Kg	78.5	75.0-125	W47721	15May14 0820 by 308	15May14 1300 by 308		
	Relative Percent Difference:		7.20	20.0	W47721				
Total Recoverable Phenolics	178499-2	9.81 mg/Kg	91.2	80.0-120	W47720	15May14 0820 by 308	15May14 1500 by 308		
	178499-2	9.20 mg/Kg	90.8	80.0-120	W47720	15May14 0820 by 308	15May14 1500 by 308		
	Relative Percent Difference:		0.151	10.0	W47720				
Antimony	178712-1	494 mg/Kg	75.0	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	495 mg/Kg	75.0	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.0700	20.0	S36811				
Arsenic	178712-1	494 mg/Kg	95.7	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	495 mg/Kg	96.2	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.521	20.0	S36811				
Beryllium	178712-1	49.4 mg/Kg	101	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	49.5 mg/Kg	102	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.780	20.0	S36811				
Cadmium	178712-1	494 mg/Kg	95.6	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	495 mg/Kg	96.3	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.766	20.0	S36811				
Chromium	178712-1	49.4 mg/Kg	120	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	49.5 mg/Kg	121	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.819	20.0	S36811				
Copper	178712-1	49.4 mg/Kg	99.8	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	49.5 mg/Kg	102	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.664	20.0	S36811				
Lead	178712-1	494 mg/Kg	98.0	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	495 mg/Kg	98.6	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.560	20.0	S36811				
Molybdenum	178712-1	49.4 mg/Kg	98.6	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	49.5 mg/Kg	98.8	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.136	20.0	S36811				
Nickel	178712-1	49.4 mg/Kg	106	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	49.5 mg/Kg	106	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.441	20.0	S36811				
Selenium	178712-1	494 mg/Kg	88.9	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	495 mg/Kg	89.3	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.438	20.0	S36811				
Silver	178712-1	9.89 mg/Kg	92.4	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	9.90 mg/Kg	92.7	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.295	20.0	S36811				
Thallium	178712-1	494 mg/Kg	103	75.0-125	S36811	19May14 1016 by 285	19May14 1538 by 305		
	178712-1	495 mg/Kg	104	75.0-125	S36811	19May14 1016 by 285	19May14 1542 by 305		
	Relative Percent Difference:		0.995	20.0	S36811				
Zinc	178712-1	49.4 mg/Kg	-	75.0-125	S36811	19May14 1016 by 285	20May14 1109 by 305		X
	178712-1	49.5 mg/Kg	-	75.0-125	S36811	19May14 1016 by 285	20May14 1112 by 305		X
	Relative Percent Difference:		0.0254	20.0	S36811				
Mercury	178708-1	2.45 mg/Kg	83.5	70.0-130	S36810	19May14 0933 by 311	19May14 1204 by 311		
	178708-1	2.49 mg/Kg	75.2	70.0-130	S36810	19May14 0933 by 311	19May14 1207 by 311		
	Relative Percent Difference:		10.6	20.0	S36810				

Base/Neutral and Acid Compounds

Acenaphthene	178494-5	40 ug/l	83.0	45.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
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City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Acenaphthylene	178494-5	40 ug/l	82.5	50.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
Anthracene	178494-5	40 ug/l	83.5	55.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Benzdine	178494-5	100 ug/l	4.94	0.00-47.0	B8961	14May14 1439 by 306	14May14 1823 by 301		
Benzo(a)anthracene	178494-5	40 ug/l	83.4	55.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Benzo(a)pyrene	178494-5	40 ug/l	84.8	55.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Benzo(g,h,i)perylene	178494-5	40 ug/l	83.7	40.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
Benzo(k)fluoranthene	178494-5	40 ug/l	87.8	45.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
3,4-Benzofluoranthene	178494-5	40 ug/l	87.3	45.0-120	B8961	14May14 1439 by 306	14May14 1823 by 301		
Bis(2-chloroethoxy)methane	178494-5	40 ug/l	80.6	45.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
Bis(2-chloroethyl)ether	178494-5	40 ug/l	80.8	35.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Bis(2-chloroisopropyl)ether	178494-5	40 ug/l	81.6	25.0-130	B8961	14May14 1439 by 306	14May14 1823 by 301		
Bis(2-ethylhexyl)phthalate	178494-5	40 ug/l	98.0	40.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
4-Bromophenyl phenyl ether	178494-5	40 ug/l	85.2	50.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Butylbenzyl phthalate	178494-5	40 ug/l	94.6	45.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
2-Chloronaphthalene	178494-5	40 ug/l	83.3	50.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
2-Chlorophenol	178494-5	40 ug/l	78.8	35.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
4-Chlorophenyl phenyl ether	178494-5	40 ug/l	82.0	50.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Chrysene	178494-5	40 ug/l	84.0	55.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Di-n-butyl phthalate	178494-5	40 ug/l	86.9	55.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Di-n-octyl phthalate	178494-5	40 ug/l	86.6	35.0-135	B8961	14May14 1439 by 306	14May14 1823 by 301		
Dibenz(a,h)anthracene	178494-5	40 ug/l	79.3	40.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
1,2-Dichlorobenzene	178494-5	40 ug/l	75.7	35.0-100	B8961	14May14 1439 by 306	14May14 1823 by 301		
1,3-Dichlorobenzene	178494-5	40 ug/l	74.4	30.0-100	B8961	14May14 1439 by 306	14May14 1823 by 301		
1,4-Dichlorobenzene	178494-5	40 ug/l	75.3	30.0-100	B8961	14May14 1439 by 306	14May14 1823 by 301		
3,3'-Dichlorobenzidine	178494-5	40 ug/l	40.8	20.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,4-Dichlorophenol	178494-5	40 ug/l	79.0	50.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
Diethyl phthalate	178494-5	40 ug/l	85.6	40.0-120	B8961	14May14 1439 by 306	14May14 1823 by 301		
Dimethyl phthalate	178494-5	40 ug/l	86.2	25.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,4-Dimethylphenol	178494-5	40 ug/l	64.2	30.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
4,6-Dinitro-o-cresol	178494-5	40 ug/l	68.2	40.0-130	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,4-Dinitrophenol	178494-5	40 ug/l	58.2	15.0-140	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,4-Dinitrotoluene	178494-5	40 ug/l	82.2	50.0-120	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,6-Dinitrotoluene	178494-5	40 ug/l	81.8	50.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
1,2-Diphenylhydrazine	178494-5	40 ug/l	91.8	55.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Fluorene	178494-5	40 ug/l	83.6	50.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Hexachlorobenzene	178494-5	40 ug/l	84.3	50.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Hexachlorobutadiene	178494-5	40 ug/l	78.2	25.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
Hexachlorocyclopentadiene	178494-5	40 ug/l	85.2	6.60-121	B8961	14May14 1439 by 306	14May14 1823 by 301		
Hexachloroethane	178494-5	40 ug/l	79.0	30.0-100	B8961	14May14 1439 by 306	14May14 1823 by 301		
Indeno(1,2,3-cd)pyrene	178494-5	40 ug/l	81.2	45.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Isophorone	178494-5	40 ug/l	79.2	50.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
n-Nitrosodi-n-propylamine	178494-5	40 ug/l	83.8	35.0-130	B8961	14May14 1439 by 306	14May14 1823 by 301		
n-Nitrosodimethylamine	178494-5	40 ug/l	69.0	25.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
n-Nitrosodiphenylamine	178494-5	40 ug/l	83.2	50.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Naphthalene	178494-5	40 ug/l	80.9	40.0-100	B8961	14May14 1439 by 306	14May14 1823 by 301		
Nitrobenzene	178494-5	40 ug/l	86.2	45.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
2-Nitrophenol	178494-5	40 ug/l	80.4	40.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
4-Nitrophenol	178494-5	40 ug/l	48.9	0.00-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
p-Chloro-m-cresol	178494-5	40 ug/l	82.6	45.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Pentachlorophenol	178494-5	40 ug/l	62.1	40.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Phenanthrene	178494-5	40 ug/l	83.8	50.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Phenol	178494-5	40 ug/l	49.9	0.00-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Pyrene	178494-5	40 ug/l	84.0	50.0-130	B8961	14May14 1439 by 306	14May14 1823 by 301		
1,2,4-Trichlorobenzene	178494-5	40 ug/l	77.6	35.0-105	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,4,6-Trichlorophenol	178494-5	40 ug/l	81.4	50.0-115	B8961	14May14 1439 by 306	14May14 1823 by 301		
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	178494-5	40 ug/l	85.9	50.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
2-Fluorophenol	178494-5	40 ug/l	64.4	20.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Nitrobenzene-D5	178494-5	40 ug/l	86.6	40.0-110	B8961	14May14 1439 by 306	14May14 1823 by 301		
Terphenyl-D14	178494-5	40 ug/l	88.7	50.0-135	B8961	14May14 1439 by 306	14May14 1823 by 301		
2,4,6-Tribromophenol	178494-5	40 ug/l	81.1	40.0-125	B8961	14May14 1439 by 306	14May14 1823 by 301		
Volatile Organic Compounds									
Acrolein	178369-3	100 ug/l	68.9	35.9-146	V8517	13May14 1031 by 301	13May14 1300 by 301		
Acrylonitrile	178369-3	100 ug/l	78.4	44.6-140	V8517	13May14 1031 by 301	13May14 1300 by 301		
Benzene	178369-3	20 ug/l	99.9	80.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
Bromodichloromethane	178369-3	20 ug/l	91.6	75.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
Bromoform	178369-3	20 ug/l	85.8	70.0-130	V8517	13May14 1031 by 301	13May14 1300 by 301		
Bromomethane	178369-3	20 ug/l	91.2	30.0-145	V8517	13May14 1031 by 301	13May14 1300 by 301		
Carbon tetrachloride	178369-3	20 ug/l	106	65.0-140	V8517	13May14 1031 by 301	13May14 1300 by 301		
Chlorobenzene	178369-3	20 ug/l	101	80.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
Chloroethane	178369-3	20 ug/l	123	60.0-135	V8517	13May14 1031 by 301	13May14 1300 by 301		
2-Chloroethyl vinyl ether	178369-3	40 ug/l	95.4	37.9-154	V8517	13May14 1031 by 301	13May14 1300 by 301		
Chloroform	178369-3	20 ug/l	93.1	65.0-135	V8517	13May14 1031 by 301	13May14 1300 by 301		
Chloromethane	178369-3	20 ug/l	96.8	40.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
Dibromochloromethane	178369-3	20 ug/l	90.5	60.0-135	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,2-Dichlorobenzene	178369-3	20 ug/l	94.8	70.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,3-Dichlorobenzene	178369-3	20 ug/l	98.0	75.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,4-Dichlorobenzene	178369-3	20 ug/l	98.1	75.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,1-Dichloroethane	178369-3	20 ug/l	110	70.0-135	V8517	13May14 1031 by 301	13May14 1300 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
1,2-Dichloroethane	178369-3	20 ug/l	74.1	70.0-130	V8517	13May14 1031 by 301	14May14 1138 by 301	5	D
1,1-Dichloroethene	178369-3	20 ug/l	111	70.0-130	V8517	13May14 1031 by 301	13May14 1300 by 301		
trans-1,2-Dichloroethene	178369-3	20 ug/l	109	60.0-140	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,2-Dichloropropane	178369-3	20 ug/l	97.3	75.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,3-Dichloropropylene	178369-3	20 ug/l	89.9	70.0-130	V8517	13May14 1031 by 301	13May14 1300 by 301		
Ethylbenzene	178369-3	20 ug/l	98.6	75.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
Methylene chloride	178369-3	20 ug/l	81.2	55.0-140	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,1,2,2-Tetrachloroethane	178369-3	20 ug/l	83.5	65.0-130	V8517	13May14 1031 by 301	13May14 1300 by 301		
Tetrachloroethene	178369-3	20 ug/l	106	45.0-150	V8517	13May14 1031 by 301	13May14 1300 by 301		
Toluene	178369-3	20 ug/l	98.6	75.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,1,1-Trichloroethane	178369-3	20 ug/l	98.4	65.0-130	V8517	13May14 1031 by 301	13May14 1300 by 301		
1,1,2-Trichloroethane	178369-3	20 ug/l	88.6	75.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
Trichloroethene	178369-3	20 ug/l	100	70.0-125	V8517	13May14 1031 by 301	13May14 1300 by 301		
Vinyl chloride	178369-3	20 ug/l	106	50.0-145	V8517	13May14 1031 by 301	13May14 1300 by 301		
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	178369-3	50 ug/l	97.7	75.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
Dibromofluoromethane	178369-3	50 ug/l	99.9	85.0-115	V8517	13May14 1031 by 301	13May14 1300 by 301		
Toluene-D8	178369-3	50 ug/l	100	85.0-120	V8517	13May14 1031 by 301	13May14 1300 by 301		
Organochlorine Pesticides and PCBs									
Aldrin	178494-5	10 ug/l	92.4	25.0-140	G9711	14May14 1153 by 306	14May14 1722 by 306		
alpha-BHC	178494-5	10 ug/l	81.5	60.0-130	G9711	14May14 1153 by 306	14May14 1722 by 306		
alpha-Endosulfan	178494-5	10 ug/l	83.1	50.0-110	G9711	14May14 1153 by 306	14May14 1722 by 306		
beta-BHC	178494-5	10 ug/l	86.2	65.0-125	G9711	14May14 1153 by 306	14May14 1722 by 306		
beta-Endosulfan	178494-5	10 ug/l	89.6	30.0-130	G9711	14May14 1153 by 306	14May14 1722 by 306		
Chlorpyrifos	178494-5	10 ug/l	97.7	47.9-138	G9711	14May14 1153 by 306	14May14 1722 by 306		
4,4'-DDD	178494-5	10 ug/l	92.3	25.0-150	G9711	14May14 1153 by 306	14May14 1722 by 306		
4,4'-DDE	178494-5	10 ug/l	88.4	35.0-140	G9711	14May14 1153 by 306	14May14 1722 by 306		
4,4'-DDT	178494-5	10 ug/l	134	45.0-140	G9711	14May14 1153 by 306	14May14 1722 by 306		
delta-BHC	178494-5	10 ug/l	92.0	45.0-135	G9711	14May14 1153 by 306	14May14 1722 by 306		
Dieldrin	178494-5	10 ug/l	95.2	60.0-130	G9711	14May14 1153 by 306	14May14 1722 by 306		
Endosulfan sulfate	178494-5	10 ug/l	95.6	55.0-135	G9711	14May14 1153 by 306	14May14 1722 by 306		
Endrin	178494-5	10 ug/l	102	55.0-135	G9711	14May14 1153 by 306	14May14 1722 by 306		
Endrin aldehyde	178494-5	10 ug/l	98.0	55.0-135	G9711	14May14 1153 by 306	14May14 1722 by 306		
gamma-BHC	178494-5	10 ug/l	89.7	25.0-135	G9711	14May14 1153 by 306	14May14 1722 by 306		
Heptachlor	178494-5	10 ug/l	96.1	40.0-130	G9711	14May14 1153 by 306	14May14 1722 by 306		
Heptachlor epoxide	178494-5	10 ug/l	90.4	60.0-130	G9711	14May14 1153 by 306	14May14 1722 by 306		
Organochlorine Pesticides and PCBs Surrogates:									
Decachlorobiphenyl	178494-5	20 ug/l	109	30.0-135	G9711	14May14 1153 by 306	14May14 1722 by 306		
Tetrachloro-m-xylene	178494-5	20 ug/l	110	25.0-140	G9711	14May14 1153 by 306	14May14 1722 by 306		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds									
3 & 4-Methylphenol	178499-2	2670 ug/Kg	86.7	40.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
Acenaphthene	178499-2	2670 ug/Kg	74.8	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Acenaphthylene	178499-2	2670 ug/Kg	76.4	45.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
Anthracene	178499-2	2670 ug/Kg	80.0	55.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzo(a)anthracene	178499-2	2670 ug/Kg	81.3	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzo(a)pyrene	178499-2	2670 ug/Kg	83.5	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzo(b)fluoranthene	178499-2	2670 ug/Kg	84.2	45.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzo(g,h,i)perylene	178499-2	2670 ug/Kg	72.6	40.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzo(k)fluoranthene	178499-2	2670 ug/Kg	81.1	45.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzoic acid	178499-2	6670 ug/Kg	30.1	0.00-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Benzyl alcohol	178499-2	2670 ug/Kg	78.2	20.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
bis(2-Chloroethoxy)Methane	178499-2	2670 ug/Kg	72.0	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
bis(2-Chloroethyl)Ether	178499-2	2670 ug/Kg	72.2	40.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
bis(2-Chloroisopropyl)Ether	178499-2	2670 ug/Kg	71.8	20.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
bis(2-Ethylhexyl)Phthalate	178499-2	2670 ug/Kg	115	45.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
4-Bromophenyl phenyl ether	178499-2	2670 ug/Kg	78.2	45.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
Butyl benzyl phthalate	178499-2	2670 ug/Kg	101	50.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
4-Chloro-3-methylphenol	178499-2	2670 ug/Kg	80.0	45.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
4-Chloroaniline	178499-2	2670 ug/Kg	56.7	10.0-100	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Chloronaphthalene	178499-2	2670 ug/Kg	74.0	45.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Chlorophenol	178499-2	2670 ug/Kg	74.7	45.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
4-Chlorophenyl phenyl ether	178499-2	2670 ug/Kg	74.2	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Chrysene	178499-2	2670 ug/Kg	81.3	55.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Di-n-butyl phthalate	178499-2	2670 ug/Kg	87.6	55.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Di-n-octyl phthalate	178499-2	2670 ug/Kg	94.4	40.0-130	B8965	15May14 0928 by 301	15May14 1809 by 301		
Dibenz(a,h)anthracene	178499-2	2670 ug/Kg	71.1	40.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
Dibenzofuran	178499-2	2670 ug/Kg	76.6	50.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
1,2-Dichlorobenzene	178499-2	2670 ug/Kg	64.2	45.0-100	B8965	15May14 0928 by 301	15May14 1809 by 301		
1,3-Dichlorobenzene	178499-2	2670 ug/Kg	63.1	40.0-100	B8965	15May14 0928 by 301	15May14 1809 by 301		
1,4-Dichlorobenzene	178499-2	2670 ug/Kg	63.0	35.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
3,3'-Dichlorobenzidine	178499-2	2670 ug/Kg	86.3	10.0-130	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4-Dichlorophenol	178499-2	2670 ug/Kg	73.7	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Diethyl phthalate	178499-2	2670 ug/Kg	80.8	50.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
Dimethyl phthalate	178499-2	2670 ug/Kg	80.1	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4-Dimethylphenol	178499-2	2670 ug/Kg	75.0	30.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
4,6-Dinitro-2-methylphenol	178499-2	2670 ug/Kg	87.0	30.0-135	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4-Dinitrophenol	178499-2	2670 ug/Kg	68.5	15.0-130	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4-Dinitrotoluene	178499-2	2670 ug/Kg	74.4	50.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,6-Dinitrotoluene	178499-2	2670 ug/Kg	75.2	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Fluoranthene	178499-2	2670 ug/Kg	77.9	55.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Fluorene	178499-2	2670 ug/Kg	76.6	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Hexachlorobenzene	178499-2	2670 ug/Kg	77.1	45.0-120	B8965	15May14 0928 by 301	15May14 1809 by 301		
Hexachlorobutadiene	178499-2	2670 ug/Kg	68.1	40.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
Hexachlorocyclopentadiene	178499-2	2670 ug/Kg	70.5	0.00-133	B8965	15May14 0928 by 301	15May14 1809 by 301		
Hexachloroethane	178499-2	2670 ug/Kg	66.9	35.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Indeno(1,2,3-cd)pyrene	178499-2	2670 ug/Kg	75.4	40.0-120	B8965	15May14 0928 by 301	15May14 1809 by 301		
Isophorone	178499-2	2670 ug/Kg	72.7	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Methylnaphthalene	178499-2	2670 ug/Kg	70.8	45.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Methylphenol	178499-2	2670 ug/Kg	76.2	40.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
N-Nitroso-di-n-propylamine	178499-2	2670 ug/Kg	74.2	40.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
n-Nitrosodiphenylamine	178499-2	2670 ug/Kg	83.1	50.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
Naphthalene	178499-2	2670 ug/Kg	71.4	40.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Nitroaniline	178499-2	2670 ug/Kg	79.9	45.0-120	B8965	15May14 0928 by 301	15May14 1809 by 301		
3-Nitroaniline	178499-2	2670 ug/Kg	68.7	25.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
4-Nitroaniline	178499-2	2670 ug/Kg	70.4	35.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
Nitrobenzene	178499-2	2670 ug/Kg	73.1	40.0-115	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Nitrophenol	178499-2	2670 ug/Kg	73.2	40.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
4-Nitrophenol	178499-2	2670 ug/Kg	82.5	15.0-140	B8965	15May14 0928 by 301	15May14 1809 by 301		
Pentachlorophenol	178499-2	2670 ug/Kg	85.8	25.0-120	B8965	15May14 0928 by 301	15May14 1809 by 301		
Phenanthrene	178499-2	2670 ug/Kg	79.8	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Phenol	178499-2	2670 ug/Kg	78.1	40.0-100	B8965	15May14 0928 by 301	15May14 1809 by 301		
Pyrene	178499-2	2670 ug/Kg	71.3	45.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
1,2,4-Trichlorobenzene	178499-2	2670 ug/Kg	66.8	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4,5-Trichlorophenol	178499-2	2670 ug/Kg	77.9	50.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4,6-Trichlorophenol	178499-2	2670 ug/Kg	79.9	45.0-110	B8965	15May14 0928 by 301	15May14 1809 by 301		
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	178499-2	2670 ug/Kg	77.1	45.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
2-Fluorophenol	178499-2	2670 ug/Kg	75.6	35.0-105	B8965	15May14 0928 by 301	15May14 1809 by 301		
Nitrobenzene-D5	178499-2	2670 ug/Kg	73.3	35.0-100	B8965	15May14 0928 by 301	15May14 1809 by 301		
Terphenyl-D14	178499-2	2670 ug/Kg	76.3	30.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
2,4,6-Tribromophenol	178499-2	2670 ug/Kg	90.2	35.0-125	B8965	15May14 0928 by 301	15May14 1809 by 301		
Volatile Organic Compounds									
Acetone	178471-1	40 ug/Kg	98.0	20.0-160	V8516	13May14 0838 by 301	13May14 1825 by 301		
Benzene	178471-1	20 ug/Kg	90.6	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Bromobenzene	178471-1	20 ug/Kg	77.0	65.0-120	V8516	13May14 0838 by 301	13May14 1825 by 301		
Bromochloromethane	178471-1	20 ug/Kg	92.4	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Bromodichloromethane	178471-1	20 ug/Kg	90.0	70.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
Bromoform	178471-1	20 ug/Kg	79.0	55.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
Bromomethane	178471-1	20 ug/Kg	93.4	30.0-160	V8516	13May14 0838 by 301	13May14 1825 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
2-Butanone	178471-1	40 ug/Kg	89.1	30.0-160	V8516	13May14 0838 by 301	13May14 1825 by 301		
Carbon disulfide	178471-1	40 ug/Kg	79.6	45.0-160	V8516	13May14 0838 by 301	13May14 1825 by 301		
Carbon tetrachloride	178471-1	20 ug/Kg	91.8	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
Chlorobenzene	178471-1	20 ug/Kg	79.6	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Chloroethane	178471-1	20 ug/Kg	89.0	40.0-155	V8516	13May14 0838 by 301	13May14 1825 by 301		
2-Chloroethyl vinyl ether	178471-1	40 ug/Kg	92.8	57.3-127	V8516	13May14 0838 by 301	13May14 1825 by 301		
Chloroform	178471-1	20 ug/Kg	99.2	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Chloromethane	178471-1	20 ug/Kg	89.6	50.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
2-Chlorotoluene	178471-1	20 ug/Kg	70.6	70.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
4-Chlorotoluene	178471-1	20 ug/Kg	76.4	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2-Dibromo-3-chloropropane	178471-1	20 ug/Kg	99.4	40.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
Dibromochloromethane	178471-1	20 ug/Kg	83.8	65.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2-Dibromoethane	178471-1	20 ug/Kg	82.2	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Dibromomethane	178471-1	20 ug/Kg	94.8	75.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2-Dichlorobenzene	178471-1	20 ug/Kg	85.2	75.0-120	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,3-Dichlorobenzene	178471-1	20 ug/Kg	72.3	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,4-Dichlorobenzene	178471-1	20 ug/Kg	73.6	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Dichlorodifluoromethane	178471-1	20 ug/Kg	89.0	35.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1-Dichloroethane	178471-1	20 ug/Kg	94.4	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2-Dichloroethane	178471-1	20 ug/Kg	94.0	70.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1-Dichloroethene	178471-1	20 ug/Kg	99.3	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
cis-1,2-Dichloroethene	178471-1	20 ug/Kg	99.3	65.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
trans-1,2-Dichloroethene	178471-1	20 ug/Kg	98.0	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2-Dichloropropane	178471-1	20 ug/Kg	88.2	70.0-120	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,3-Dichloropropane	178471-1	20 ug/Kg	84.4	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
2,2-Dichloropropane	178471-1	20 ug/Kg	92.8	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1-Dichloropropene	178471-1	20 ug/Kg	82.5	70.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
cis-1,3-Dichloropropene	178471-1	20 ug/Kg	79.6	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
trans-1,3-Dichloropropene	178471-1	20 ug/Kg	77.8	65.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Ethylbenzene	178471-1	20 ug/Kg	82.1	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Hexachlorobutadiene	178471-1	20 ug/Kg	55.0	55.0-140	V8516	13May14 0838 by 301	13May14 1825 by 301		
2-Hexanone	178471-1	40 ug/Kg	76.8	45.0-145	V8516	13May14 0838 by 301	13May14 1825 by 301		
Isopropylbenzene	178471-1	20 ug/Kg	101	75.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
m&p-Xylenes	178471-1	40 ug/Kg	90.1	80.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
4-Methyl-2-pentanone	178471-1	40 ug/Kg	82.5	45.0-145	V8516	13May14 0838 by 301	13May14 1825 by 301		
Methylene chloride	178471-1	20 ug/Kg	99.7	55.0-140	V8516	13May14 0838 by 301	13May14 1825 by 301		
n-Butylbenzene	178471-1	20 ug/Kg	140	65.0-140	V8516	13May14 0838 by 301	13May14 1825 by 301		
n-Propylbenzene	178471-1	20 ug/Kg	80.8	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
Naphthalene	178471-1	20 ug/Kg	113	40.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
o-Xylene	178471-1	20 ug/Kg	108	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
p-Isopropyltoluene	178471-1	20 ug/Kg	100	75.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
sec-Butylbenzene	178471-1	20 ug/Kg	70.3	65.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
Styrene	178471-1	20 ug/Kg	76.5	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
tert-Butylbenzene	178471-1	20 ug/Kg	68.1	65.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1,1,2-Tetrachloroethane	178471-1	20 ug/Kg	83.4	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1,2,2-Tetrachloroethane	178471-1	20 ug/Kg	85.2	55.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
Tetrachloroethene	178471-1	20 ug/Kg	74.8	65.0-140	V8516	13May14 0838 by 301	13May14 1825 by 301		
Toluene	178471-1	20 ug/Kg	84.8	70.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2,3-Trichlorobenzene	178471-1	20 ug/Kg	60.6	60.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2,4-Trichlorobenzene	178471-1	20 ug/Kg	69.0	65.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1,1-Trichloroethane	178471-1	20 ug/Kg	92.9	70.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,1,2-Trichloroethane	178471-1	20 ug/Kg	90.2	60.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Trichloroethene	178471-1	20 ug/Kg	83.0	75.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Trichlorofluoromethane	178471-1	20 ug/Kg	90.8	25.0-185	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2,3-Trichloropropane	178471-1	20 ug/Kg	88.5	65.0-130	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,2,4-Trimethylbenzene	178471-1	20 ug/Kg	118	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
1,3,5-Trimethylbenzene	178471-1	20 ug/Kg	129	65.0-135	V8516	13May14 0838 by 301	13May14 1825 by 301		
Vinyl acetate	178471-1	40 ug/Kg	11.3	0.00-174	V8516	13May14 0838 by 301	13May14 1825 by 301		
Vinyl chloride	178471-1	20 ug/Kg	97.0	60.0-125	V8516	13May14 0838 by 301	13May14 1825 by 301		
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	178471-1	50 ug/Kg	98.6	85.0-120	V8516	13May14 0838 by 301	13May14 1825 by 301		
Dibromofluoromethane	178471-1	50 ug/Kg	102	80.0-120	V8516	13May14 0838 by 301	13May14 1825 by 301		
Toluene-D8	178471-1	50 ug/Kg	100	85.0-115	V8516	13May14 0838 by 301	13May14 1825 by 301		
Organochlorine Pesticides									
Aldrin	178499-2	6.62 ug/Kg	78.2	45.0-140	G9712	15May14 1001 by 301	19May14 1558 by 306		
alpha-BHC	178499-2	6.62 ug/Kg	96.0	60.0-125	G9712	15May14 1001 by 301	19May14 1558 by 306		
alpha-Endosulfan	178499-2	6.62 ug/Kg	90.4	15.0-135	G9712	15May14 1001 by 301	19May14 1558 by 306		
beta-BHC	178499-2	6.62 ug/Kg	110	60.0-125	G9712	15May14 1001 by 301	19May14 1558 by 306		
beta-Endosulfan	178499-2	6.62 ug/Kg	86.1	35.0-140	G9712	15May14 1001 by 301	19May14 1558 by 306		
4,4'-DDD	178499-2	6.62 ug/Kg	77.4	30.0-135	G9712	15May14 1001 by 301	19May14 1558 by 306		
4,4'-DDE	178499-2	6.62 ug/Kg	84.7	70.0-125	G9712	15May14 1001 by 301	19May14 1558 by 306		
4,4'-DDT	178499-2	6.62 ug/Kg	103	45.0-140	G9712	15May14 1001 by 301	19May14 1558 by 306		
delta-BHC	178499-2	6.62 ug/Kg	85.0	55.0-130	G9712	15May14 1001 by 301	19May14 1558 by 306		
Dieldrin	178499-2	6.62 ug/Kg	85.0	65.0-125	G9712	15May14 1001 by 301	19May14 1558 by 306		
Endosulfan sulfate	178499-2	6.62 ug/Kg	88.0	60.0-135	G9712	15May14 1001 by 301	19May14 1558 by 306		
Endrin	178499-2	6.62 ug/Kg	89.0	60.0-135	G9712	15May14 1001 by 301	19May14 1558 by 306		
Endrin aldehyde	178499-2	6.62 ug/Kg	61.0	35.0-145	G9712	15May14 1001 by 301	19May14 1558 by 306		
gamma-BHC	178499-2	6.62 ug/Kg	81.0	60.0-125	G9712	15May14 1001 by 301	19May14 1558 by 306		
Heptachlor	178499-2	6.62 ug/Kg	90.0	50.0-140	G9712	15May14 1001 by 301	19May14 1558 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

<u>Analyte</u>	<u>Sample</u>	<u>Spike Amount</u>	<u>%</u>	<u>Limits</u>	<u>Batch</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Dil</u>	<u>Qual</u>
Organochlorine Pesticides (Continued)									
Heptachlor epoxide	178499-2	6.62 ug/Kg	80.0	65.0-130	G9712	15May14 1001 by 301	19May14 1558 by 306		
Methoxychlor	178499-2	6.62 ug/Kg	98.0	55.0-145	G9712	15May14 1001 by 301	19May14 1558 by 306		
Organochlorine Pesticides Surrogates:									
Decachlorobiphenyl	178499-2	13.3 ug/Kg	93.9	55.0-130	G9712	15May14 1001 by 301	19May14 1558 by 306		
Tetrachloro-m-xylene	178499-2	13.3 ug/Kg	85.9	70.0-125	G9712	15May14 1001 by 301	19May14 1558 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W47697-1	14May14 0810 by 308	14May14 1130 by 308	
Chromium, Hexavalent	< 0.007 mg/l	0.007	0.007	W47688-1	13May14 1420 by 308	13May14 1530 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W47679-1	13May14 0905 by 308	13May14 1544 by 308	
Mercury, low level	< 0.0018 ug/l	0.0018	0.0050	S36804-1	16May14 0910 by 311	16May14 1056 by 311	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Beryllium	< 0.0002 mg/l	0.0002	0.0002	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S36787-1	13May14 1341 by 285	14May14 1707 by 305	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W47721-1	15May14 0820 by 308	15May14 1253 by 308	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W47720-1	15May14 0820 by 308	15May14 1500 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W47742-1	16May14 0915 by 271	16May14 1551 by 271	
Antimony	< 3 mg/Kg	3	3	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Arsenic	< 5 mg/Kg	5	5	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Chromium	< 0.7 mg/Kg	0.7	0.7	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Copper	< 0.6 mg/Kg	0.6	0.6	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Lead	< 4 mg/Kg	4	4	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Nickel	< 1 mg/Kg	1	1	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Selenium	< 7 mg/Kg	7	7	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Silver	< 0.7 mg/Kg	0.7	0.7	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Thallium	< 4 mg/Kg	4	4	S36811-1	19May14 1016 by 285	19May14 1531 by 305	
Zinc	< 0.2 mg/Kg	0.2	0.2	S36811-1	19May14 1016 by 285	20May14 1104 by 305	
Mercury	< 0.1 mg/Kg	0.1	0.1	S36810-1	19May14 0933 by 311	19May14 1155 by 311	
Base/Neutral and Acid Compounds							
Acenaphthene	< 0.83 ug/l	0.83	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Acenaphthylene	< 0.79 ug/l	0.79	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Anthracene	< 1.5 ug/l	1.5	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Benzidine	< 14 ug/l	14	25	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Benzo(a)anthracene	< 0.75 ug/l	0.75	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Benzo(a)pyrene	< 0.63 ug/l	0.63	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Benzo(g,h,i)perylene	< 0.79 ug/l	0.79	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Benzo(k)fluoranthene	< 1.6 ug/l	1.6	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
3,4-Benzofluoranthene	< 1.4 ug/l	1.4	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Bis(2-chloroethoxy)methane	< 0.80 ug/l	0.80	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Bis(2-chloroethyl)ether	< 0.88 ug/l	0.88	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Bis(2-chloroisopropyl)ether	< 0.94 ug/l	0.94	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Bis(2-ethylhexyl)phthalate	< 3.8 ug/l	3.8	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
4-Bromophenyl phenyl ether	< 1.2 ug/l	1.2	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Butylbenzyl phthalate	< 1.5 ug/l	1.5	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
2-Chloronaphthalene	< 0.84 ug/l	0.84	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2-Chlorophenol	< 2.1 ug/l	2.1	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
4-Chlorophenyl phenyl ether	< 0.96 ug/l	0.96	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Chrysene	< 0.83 ug/l	0.83	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Di-n-butyl phthalate	< 1.1 ug/l	1.1	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Di-n-octyl phthalate	< 0.70 ug/l	0.70	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Dibenz(a,h)anthracene	< 1.2 ug/l	1.2	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
3,3'-Dichlorobenzidine	< 4.9 ug/l	4.9	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,4-Dichlorophenol	< 0.51 ug/l	0.51	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Diethyl phthalate	< 0.85 ug/l	0.85	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Dimethyl phthalate	< 0.93 ug/l	0.93	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,4-Dimethylphenol	< 0.79 ug/l	0.79	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
4,6-Dinitro-o-cresol	< 0.75 ug/l	0.75	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,4-Dinitrophenol	< 0.74 ug/l	0.74	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,4-Dinitrotoluene	< 0.51 ug/l	0.51	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,6-Dinitrotoluene	< 0.83 ug/l	0.83	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
1,2-Diphenylhydrazine	< 0.60 ug/l	0.60	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Fluorene	< 0.99 ug/l	0.99	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Hexachlorobenzene	< 1.1 ug/l	1.1	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Hexachlorobutadiene	< 0.71 ug/l	0.71	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Hexachlorocyclopentadiene	< 0.74 ug/l	0.74	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Hexachloroethane	< 0.73 ug/l	0.73	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Indeno(1,2,3-cd)pyrene	< 1.2 ug/l	1.2	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Isophorone	< 0.90 ug/l	0.90	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
n-Nitrosodi-n-propylamine	< 0.90 ug/l	0.90	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
n-Nitrosodimethylamine	< 2.5 ug/l	2.5	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
n-Nitrosodiphenylamine	< 1.1 ug/l	1.1	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	R
Naphthalene	< 0.87 ug/l	0.87	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Nitrobenzene	< 0.85 ug/l	0.85	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2-Nitrophenol	< 0.82 ug/l	0.82	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
4-Nitrophenol	< 0.70 ug/l	0.70	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
p-Chloro-m-cresol	< 1.7 ug/l	1.7	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Pentachlorophenol	< 0.94 ug/l	0.94	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Phenanthrene	< 0.93 ug/l	0.93	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Phenol	< 2.6 ug/l	2.6	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Pyrene	< 0.56 ug/l	0.56	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
1,2,4-Trichlorobenzene	< 0.87 ug/l	0.87	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,4,6-Trichlorophenol	< 1.4 ug/l	1.4	5.0	B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	82.0 %			B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2-Fluorophenol (20.0-110%)	60.9 %			B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Nitrobenzene-D5 (40.0-110%)	80.2 %			B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Terphenyl-D14 (50.0-135%)	92.8 %			B8961-1	14May14 1439 by 306	14May14 1709 by 301	
2,4,6-Tribromophenol (40.0-125%)	51.6 %			B8961-1	14May14 1439 by 306	14May14 1709 by 301	
Volatile Organic Compounds							
Acrolein	< 0.78 ug/l	0.78	25	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Acrylonitrile	< 0.63 ug/l	0.63	25	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Benzene	< 0.12 ug/l	0.12	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Bromoform	< 0.26 ug/l	0.26	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Carbon tetrachloride	< 0.21 ug/l	0.21	2.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Chlorobenzene	< 0.11 ug/l	0.11	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Chlorodibromomethane	< 0.11 ug/l	0.11	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Chloroethane	< 0.35 ug/l	0.35	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
2-Chloroethyl vinyl ether	< 0.24 ug/l	0.24	10	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Chloroform	< 0.16 ug/l	0.16	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,2-Dichlorobenzene	< 0.17 ug/l	0.17	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,3-Dichlorobenzene	< 0.14 ug/l	0.14	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,4-Dichlorobenzene	< 0.19 ug/l	0.19	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Dichlorobromomethane	< 0.17 ug/l	0.17	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,1-Dichloroethane	< 0.15 ug/l	0.15	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,2-Dichloroethane	< 0.21 ug/l	0.21	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,1-Dichloroethylene	< 0.24 ug/l	0.24	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
trans-1,2-Dichloroethylene	< 0.20 ug/l	0.20	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,2-Dichloropropane	< 0.19 ug/l	0.19	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,3-Dichloropropylene	< 0.20 ug/l	0.20	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Ethylbenzene	< 0.12 ug/l	0.12	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Methyl bromide(Bromomethane)	< 0.16 ug/l	0.16	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Methyl chloride(Chloromethane)	< 0.19 ug/l	0.19	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Methylene chloride	< 0.25 ug/l	0.25	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,1,2,2-Tetrachloroethane	< 0.20 ug/l	0.20	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Tetrachloroethylene	< 0.18 ug/l	0.18	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Toluene	< 0.16 ug/l	0.16	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,1,1-Trichloroethane	< 0.13 ug/l	0.13	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
1,1,2-Trichloroethane	< 0.19 ug/l	0.19	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Trichloroethylene	< 0.22 ug/l	0.22	5.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Vinyl chloride	< 0.47 ug/l	0.47	2.0	V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	94.1 %			V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Dibromofluoromethane (85.0-115%)	106 %			V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Toluene-D8 (85.0-120%)	99.1 %			V8517-1	13May14 1031 by 301	13May14 1414 by 301	
Organochlorine Pesticides and PCBs							
Aldrin	< 0.0050 ug/l	0.0050	0.010	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
alpha-BHC	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
alpha-Endosulfan	< 0.0050 ug/l	0.0050	0.010	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
beta-BHC	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
beta-Endosulfan	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Chlordane	< 0.10 ug/l	0.10	0.10	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Chlorpyrifos	< 0.0050 ug/l	0.0050	0.050	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
4,4'-DDD	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
4,4'-DDE	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
4,4'-DDT	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
delta-BHC	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Dieldrin	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Endosulfan sulfate	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Endrin	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Endrin aldehyde	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
gamma-BHC	< 0.0050 ug/l	0.0050	0.020	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Heptachlor	< 0.0050 ug/l	0.0050	0.010	G9711-1	14May14 1153 by 306	14May14 1659 by 306	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Organochlorine Pesticides and PCBs							
Heptachlor epoxide	< 0.0050 ug/l	0.0050	0.010	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1016	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1221	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1232	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1242	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1248	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1254	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
PCB 1260	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Toxaphene	< 0.20 ug/l	0.20	0.20	G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Organochlorine Pesticides and PCBs Surrogates:							
Decachlorobiphenyl (30.0-135%)	84.6 %			G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Tetrachloro-m-xylene (25.0-140%)	93.6 %			G9711-1	14May14 1153 by 306	14May14 1659 by 306	
Base/Neutral and Acid Compounds							
3 & 4-Methylphenol	< 92 ug/Kg	92	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Acenaphthene	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Acenaphthylene	< 96 ug/Kg	96	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Anthracene	< 120 ug/Kg	120	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzo(a)anthracene	< 83 ug/Kg	83	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzo(a)pyrene	< 65 ug/Kg	65	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzo(b)fluoranthene	< 89 ug/Kg	89	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzo(g,h,i)perylene	< 99 ug/Kg	99	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzo(k)fluoranthene	< 76 ug/Kg	76	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzoic acid	< 300 ug/Kg	300	1700	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Benzyl alcohol	< 150 ug/Kg	150	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
bis(2-Chloroethoxy)Methane	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
bis(2-Chloroethyl)Ether	< 94 ug/Kg	94	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
bis(2-Chloroisopropyl)Ether	< 88 ug/Kg	88	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
bis(2-Ethylhexyl)Phthalate	< 140 ug/Kg	140	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4-Bromophenyl phenyl ether	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Butyl benzyl phthalate	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4-Chloro-3-methylphenol	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4-Chloroaniline	< 73 ug/Kg	73	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Chloronaphthalene	< 90 ug/Kg	90	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Chlorophenol	< 93 ug/Kg	93	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4-Chlorophenyl phenyl ether	< 120 ug/Kg	120	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Chrysene	< 99 ug/Kg	99	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Di-n-butyl phthalate	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Di-n-octyl phthalate	< 160 ug/Kg	160	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Dibenz(a,h)anthracene	< 100 ug/Kg	100	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Dibenzofuran	< 97 ug/Kg	97	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
1,2-Dichlorobenzene	< 92 ug/Kg	92	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
1,3-Dichlorobenzene	< 83 ug/Kg	83	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
1,4-Dichlorobenzene	< 100 ug/Kg	100	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
3,3'-Dichlorobenzidine	< 210 ug/Kg	210	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,4-Dichlorophenol	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Diethyl phthalate	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Dimethyl phthalate	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,4-Dimethylphenol	< 90 ug/Kg	90	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4,6-Dinitro-2-methylphenol	< 84 ug/Kg	84	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
2,4-Dinitrophenol	< 210 ug/Kg	210	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,4-Dinitrotoluene	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,6-Dinitrotoluene	< 260 ug/Kg	260	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Fluoranthene	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Fluorene	< 93 ug/Kg	93	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Hexachlorobenzene	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Hexachlorobutadiene	< 79 ug/Kg	79	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Hexachlorocyclopentadiene	< 86 ug/Kg	86	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Hexachloroethane	< 88 ug/Kg	88	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Indeno(1,2,3-cd)pyrene	< 85 ug/Kg	85	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Isophorone	< 99 ug/Kg	99	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Methylnaphthalene	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Methylphenol	< 97 ug/Kg	97	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
N-Nitroso-di-n-propylamine	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
n-Nitrosodiphenylamine	< 120 ug/Kg	120	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	R
Naphthalene	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Nitroaniline	< 99 ug/Kg	99	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
3-Nitroaniline	< 140 ug/Kg	140	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4-Nitroaniline	< 320 ug/Kg	320	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Nitrobenzene	< 130 ug/Kg	130	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Nitrophenol	< 120 ug/Kg	120	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
4-Nitrophenol	< 310 ug/Kg	310	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Pentachlorophenol	< 280 ug/Kg	280	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Phenanthrene	< 120 ug/Kg	120	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Phenol	< 90 ug/Kg	90	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Pyrene	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
1,2,4-Trichlorobenzene	< 100 ug/Kg	100	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,4,5-Trichlorophenol	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,4,6-Trichlorophenol	< 110 ug/Kg	110	330	B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (45.0-105%)	83.1 %			B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2-Fluorophenol (35.0-105%)	79.8 %			B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Nitrobenzene-D5 (35.0-100%)	80.6 %			B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Terphenyl-D14 (30.0-125%)	61.0 %			B8965-1	15May14 0928 by 301	15May14 1619 by 301	
2,4,6-Tribromophenol (35.0-125%)	70.6 %			B8965-1	15May14 0928 by 301	15May14 1619 by 301	
Volatile Organic Compounds							
Acetone	< 4.0 ug/Kg	4.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Benzene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Bromobenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Bromochloromethane	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Bromodichloromethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Bromoform	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Bromomethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
2-Butanone	< 1.0 ug/Kg	1.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Carbon disulfide	< 1.0 ug/Kg	1.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Carbon Tetrachloride	< 2.0 ug/Kg	2.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Chlorobenzene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Chloroethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
2-Chloroethyl vinyl ether	< 1.0 ug/Kg	1.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Chloroform	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Chloromethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
2-Chlorotoluene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
4-Chlorotoluene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2-Dibromo-3-chloropropane	< 2.0 ug/Kg	2.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Dibromochloromethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2-Dibromoethane	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Dibromomethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,3-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,4-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Dichlorodifluoromethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1-Dichloroethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2-Dichloroethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
cis-1,2-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
trans-1,2-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,3-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
2,2-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
cis-1,3-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
trans-1,3-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Ethylbenzene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Hexachlorobutadiene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
2-Hexanone	< 2.0 ug/Kg	2.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Isopropylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
m&p-Xylenes	< 1.0 ug/Kg	1.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
4-Methyl-2-pentanone	< 1.0 ug/Kg	1.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Methylene chloride	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
n-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
n-Propylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Naphthalene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
o-Xylene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
p-Isopropyltoluene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
sec-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Styrene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
tert-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1,1,2-Tetrachloroethane	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1,2,2-Tetrachloroethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Tetrachloroethene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Toluene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2,3-Trichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2,4-Trichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1,1-Trichloroethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,1,2-Trichloroethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Trichloroethene	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Trichlorofluoromethane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,2,3-Trichloropropane	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
1,2,4-Trimethylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
1,3,5-Trimethylbenzene	< 1.0 ug/Kg	1.0	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Vinyl acetate	< 1.0 ug/Kg	1.0	10	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Vinyl chloride	< 0.50 ug/Kg	0.50	5.0	V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (85.0-120%)	98.7 %			V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Dibromofluoromethane (80.0-120%)	96.9 %			V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Toluene-D8 (85.0-115%)	101 %			V8516-1	13May14 0838 by 301	13May14 1937 by 301	
Organochlorine Pesticides							
Aldrin	< 0.33 ug/Kg	0.33	0.67	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
alpha-BHC	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
alpha-Endosulfan	< 0.33 ug/Kg	0.33	0.67	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
beta-BHC	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
beta-Endosulfan	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Chlordane	< 6.7 ug/Kg	6.7	6.7	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
4,4'-DDD	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
4,4'-DDE	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
4,4'-DDT	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
delta-BHC	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Dieldrin	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Endosulfan sulfate	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Endrin	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Endrin aldehyde	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
gamma-BHC	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Heptachlor	< 0.33 ug/Kg	0.33	0.67	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Heptachlor epoxide	< 0.33 ug/Kg	0.33	0.67	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Methoxychlor	< 0.33 ug/Kg	0.33	1.4	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Toxaphene	< 14 ug/Kg	14	14	G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Organochlorine Pesticides Surrogates:							
Decachlorobiphenyl (55.0-130%)	80.6 %			G9712-1	15May14 1001 by 301	19May14 1523 by 306	
Tetrachloro-m-xylene (70.0-125%)	83.8 %			G9712-1	15May14 1001 by 301	19May14 1523 by 306	


CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>City of Fort Smith</u>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED ¹										AIC CONTROL NO: <u>178499</u>		
Project Reference: <u>"P" Street Table VIII Priority Polluters</u>			SAMPLE MATRIX			T. CHLOR	PHENOLS	BVA 628	PEST. 608	VOA 624	PP METALS	M ₀						AIC PROPOSAL NO:
Project Manager: <u>Lance McAvoy</u>			G R A B	C O M P	W A T E R	S O I L											Carrier/Tracking No. _____	
Sampled By: <u>Chris Cooper Amber Parker</u>																			Received Temperature C 14.5		Remarks
AIC No.	Sample Identification	Date/Time Collected																
③	P Street Effluent	5/12/14 1408	X		X			1	X									
③	P Street Effluent	5/12/14 1408	X		X			1		X								
③	P Street Effluent	5/12/14 1408	X		X			3			X							
③	P Street Effluent	5/12/14 1408	X		X			3			X							
③	P Street Effluent	5/12/14 1408	X		X			3			X							
③	P Street Effluent	5/12/14 1408	X		X			1				X	X					
Container Type									P	G	G	G	V	P	P		Field pH calibration	
Preservative									B	S	N ₀	P ₀	N ₀	N	N		on _____ @ _____	
G = Glass			P = Plastic			V = VOA vials			H = HCl to pH2			T = Sodium Thiosulfate			Buffer:			
NO = none			S = Sulfuric acid pH2			N = Nitric acid pH2			B = NaOH to pH12			Z = Zinc acetate						
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS								Relinquished By: <u>[Signature]</u>		Date/Time <u>5/12/14 185</u>		Received By:		Date/Time				
Expedited results requested by:								Relinquished By:		Date/Time		Received in Lab By: <u>[Signature]</u>		Date/Time <u>5/13/14 0930</u>				
Who should AIC contact with questions: <u>Lance McAvoy</u>								Comments: ¹ Required Reporting Limit for Metals must be identified on back of COC. <u>FRD Ex Tracking # 8024 7206 7370</u>										
Phone: <u>477-784-2337</u> Fax: _____																		
Report Attention to: <u>Lance McAvoy</u>																		
Report Address to: _____																		

AR 0033278

INTER-OFFICE MEMO

TO: Steve Floyd, Superintendent of Water and Wastewater Operations

FROM: Don Clover, Biologist 

DATE: June 2, 2014

RE: Biomonitoring Results - "P" Street Plant

Please find below the biomonitoring test results for the second quarter of 2014. Sub-lethal and lethal toxicity were not experienced in the low-flow dilution of 8% effluent for the *Ceriodaphnia dubia* test. The test therefore passes at the low-flow dilution of 8% for lethal and sub-lethal toxicity. The fathead minnow (*Pimephales promelas*) chronic test did not experience lethal or sub-lethal effects in the low flow dilution of 8% effluent. The test therefore passes at the low-flow dilution of 8% for lethal and sub-lethal effects.

Parameter #TGP3B- 0

Parameter #TGP6C- 0

Parameter #TLP3B- 0

Parameter #TLP6C- 0

Parameter #TOP3B- 11%

Parameter # TOP6C- 11%

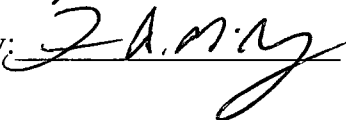
Parameter #TPP3B- 11%

Parameter #TPP6C- 11%

Parameter #TQP3B- 16.78%

Parameter #TQP6C- 13.95%

Prepared By:  Date: 6/2/14

Reviewed By:  Date: 06/16/14



REFERENCE #60169102

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

May 22, 2014

Lance McAvoy
City of Fort Smith (P-Street)
3900 Kelley HWY
Fort Smith, AR 72904

Re: Lab Project Number: 60169102
Client Project ID: Wet Test

Dear:

Enclosed are the analytical results for sample(s) received by the laboratory. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any question concerning this report, please feel free to contact me.

Sincerely,

Tim Harrell
Tim.Harrell@pacelabs.com
Technical Director

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Chronic Bio
Pace Project No.: 60169102

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Chronic Bio
Pace Project No.: 60169102

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60169102001	P Street Effluent	EPA 821/R-02/013	TDH	1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Chronic Bio
Pace Project No.: 60169102

Southeast Kansas Certification IDs

808 West McKay, Frontenac, KS 66763
Arkansas Certification #: 13-012-0
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055

Oklahoma Certification #: 2012-051
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Minnesota Certification #: 495004

REPORT OF LABORATORY ANALYSIS

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REFERENCE #60169102

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

May 22, 2014

Lance McAvoy
City of Fort Smith (P-Street)
3900 Kelley HWY
Fort Smith , AR 72904

Re: Lab Project Number: 60169102
Client Project ID: Wet Test

Dear:

Enclosed are the analytical results for sample(s) received by the laboratory. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any question concerning this report, please feel free to contact me.

Sincerely,

Tim Harrell
Tim.Harrell@pacelabs.com
Technical Director

REPORT OF LABORATORY ANALYSIS

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REFERENCE #60169102

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

**CHRONIC TOXICITY TEST FOR
CITY OF FORT SMITH (P-STREET)**

PERMIT # AR 0033278
AFIN # 66-00226

PERFORMED ON:

Pimephales promelas

and

Ceriodaphnia dubia

PREPARED FOR:

Lance McAvoy
City of Fort Smith (P-Street)
3900 Kelley HWY
Fort Smith, AR 72904

PREPARED BY:
Pace Analytical Services, Inc.
808 West McKay
Frontenac, KS 66763
1-620-235-0003

May 22, 2014

REPORT OF LABORATORY ANALYSIS

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
SUMMARY	1
INTRODUCTION	2
TEST MATERIAL	2
TEST METHODS	2
TEST ORGANISMS	2
RESULTS	3
TEST CONDITIONS	8
TEST VALIDITY	16
CONCLUSIONS	16
APPENDIX A – STATISTICAL ANALYSIS	
APPENDIX B - CHAIN OF CUSTODY FORMS	
APPENDIX C – REFERENCE TOXICANT SUMMARY	
APPENDIX D – State Agency Forms	

REPORT OF LABORATORY ANALYSIS

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SUMMARY

A Chronic Whole Effluent Toxicity Test using the 7-day chronic fathead minnows (*Pimephales promelas*), static renewal larval survival and growth test, and three brood 7-day chronic Cladoceran (*Ceriodaphnia dubia*), static renewal survival and reproduction test, was conducted on effluent discharge water collected at the CITY OF FORT SMITH (P-STREET) effluent discharge from May 12, 2014 to May 16, 2014. All the test methods followed are as listed in EPA 821-R-02-013, "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms."

Statistically significant ($p < 0.05$) mortality is determined by Dunnet's procedure using average percent survival of each test concentration versus the average survival of the controls. If significant mortality occurs, median lethal concentrations (LC50) are calculated using effluent concentrations and their corresponding percent mortality data. The LC50's and the 95% confidence intervals are calculated where appropriate by the Spearman-Kärber method. Statistical analysis is accomplished by following steps in EPA 821-R-02-013, November 2002 and by use of Toxstat version 3.4.

In minnow section of testing, it was observed that the effluent had no significant effect on the survival of the larvae at the 11% concentration. No significant mortality was observed in the other effluent concentrations after the 7-day exposure period. The No Observed Effect Concentration (NOEC) was determined to be 11% for survival. The LC50 was estimated to be >11% effluent. No significant reduction in growth was observed in the 11% effluent concentration. The Toxic Units is <1. The IC25 is >11. The NOEC for growth in effluent was determined to be 11%. The PMSD is 14.3

In Cladoceran section of testing, it was observed that the effluent had no significant effect on the survival of the organisms in the 11% effluent concentration. No significant mortality was observed in the other effluent concentrations after the 7-day exposure period. The No Observed Effect Concentration (NOEC) was determined to be 11% for survival. The LC50 was estimated to be >11% effluent. No significant reduction in reproduction was observed in the 11% effluent concentrations. The Toxic Units is <1. The IC25 is >11. The NOEC for reproduction in effluent was determined to be 11%. The PMSD is 15.9.

The chronic toxicity exhibited by the fathead minnows and the *Ceriodaphnia* treated by the effluent sampled from May 12 to May 16 from the CITY OF FORT SMITH (P-STREET) effluent discharge, is acceptable as described in EPA 821-R-02-013.

REPORT OF LABORATORY ANALYSIS

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INTRODUCTION

Pace Analytical was contracted to perform this chronic toxicity test on effluent from the CITY OF FORT SMITH (P-STREET) effluent discharge. Chronic toxicity was measured using the Pimephales promelas at larval for survival and growth test and the Ceriodaphnia dubia survival and reproduction test described in EPA 821-R-02-013, "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The raw data of the study is stored at Pace Analytical Services, INC. 808 West McKay, Frontenac, KS 66763.

TEST MATERIAL

City of Fort Smith (P-Street) personnel collected sampling of the effluent. A sample of the effluent was delivered to Pace by commercial carrier on 5-13-14. Subsequent samples followed by delivery on 5-15-14 and on 5-17-14. All samples were stored at $\leq 6^{\circ}$ Celsius. Moderately Hard Synthetic Water was used as a control and also to make the required dilutions in the test as described in EPA 821-R-02-013.

TEST METHODS

Pace used EPA test method 1000.0 for conducting the Fathead Minnow, Pimephales promelas, Larval Survival and Growth Test. EPA test method 1002.0 was used for conducting the Cladoceran, Ceriodaphnia dubia, Survival and Reproduction Test. The tests were conducted to estimate the LC50, NOEC, and LOEC for survival, growth, and reproduction of these test species.

The Pimephales and Ceriodaphnia tests were initiated on 5-13-14 and carried out until 5-20-14. The Pimephales tests were conducted in 500 ml plastic jars with 250 ml of test solution. Eight larvae were placed in each of at least 5 replicates to make a total of 40 larvae per sample concentration. The Ceriodaphnia tests were carried out in 35ml vials containing 25 ml of test solution. One Neonate was placed in each of 10 replicates to make a total of 10 neonates per sample concentration.

TEST ORGANISMS

Organisms used in these tests were cultured at Pace under controlled temperature and photo period conditions and/or were purchased from an external supplier. Pace maintains records of culture techniques for all organisms, whether produced in house or purchased.

REPORT OF LABORATORY ANALYSIS

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RESULTS

REPORT OF LABORATORY ANALYSIS

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Permittee: CITY OF FORT SMITH (P-STREET) Effluent discharge.

FATHEAD MINNOW SURVIVAL

Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV %
	A	B	C	D	E	24hr	48hr	7 day	
Control 0%	100	100	100	100	87.5	100	100	97.5	4.79
Dilution 1 3%	100	100	100	100	100	100	100	100	0.00
Dilution 2 5%	100	100	100	87.5	100	100	100	97.5	4.79
Dilution 3 6%	100	100	100	87.5	100	100	100	97.5	4.79
Dilution 4 8%	87.5	100	100	100	100	100	100	97.5	4.79
Dilution 5 11%	100	87.5	100	100	100	100	100	97.5	4.79

REPORT OF LABORATORY ANALYSIS

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CERIODAPHNIA SURVIVAL AND REPRODUCTION

DATA TABLE FOR CERIODAPHNIA YOUNG PRODUCTION

Replicate	Control 0%	Dilution 1 3%	Dilution 2 5%	Dilution 3 6%	Dilution 3 8%	Dilution 4 11%
1	25	23	22	17	23	26
2	16	23	22	15	25	18
3	18	17	17	21	19	19
4	24	20	16	20	24	24
5	22	24	25	24	21	18
6	23	22	25	22	25	23
7	20	16	24	24	21	23
8	25	23	21	25	18	26
9	16	18	26	18	19	18
10	19	24	19	23	20	22
Mean	20.8	21.0	21.7	20.9	21.5	21.7
SD	3.490	3.018	3.466	3.348	2.593	3.234
CV %	16.78	14.37	15.97	16.02	12.06	14.90

REPORT OF LABORATORY ANALYSIS

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Permittee: CITY OF FORT SMITH (P-STREET) Effluent discharge.

CERIODAPHNIA MEAN PERCENT SURVIVAL

Percent Effluent (%)						
Time Elapsed	Control 0%	Dilution 1 3%	Dilution 2 5%	Dilution 3 6%	Dilution 4 8%	Dilution 5 11%
24 hrs	100	100	100	100	100	100
48 hrs	100	100	100	100	100	100
7-day	100	100	100	100	100	100
SD	0.0	0.0	0.0	0.0	0.0	0.0
CV %	0.0	0.0	0.0	0.0	0.0	0.0

REPORT OF LABORATORY ANALYSIS

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TABLE 2
SUMMARY OF TEST CONDITIONS FOR THE FATHEAD MINNOW
(*Pimephales promelas*) LARVAL SURVIVAL AND GROWTH TEST

1. Test type	Static renewal
2. Temperature	25 degrees Celsius
3. Light quality	Ambient laboratory light
4. Light intensity	Ambient laboratory levels
5. Photoperiod	16 hr light, 8 hr dark
6. Test chamber size	500 ml
7. Test solution volume	250 ml
8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10. No. larvae/chamber	8
11. No. replicates/concentration	5
12. No. larvae/concentration	40
13. Feeding regime	Feed 0.1 ml newly hatched brine shrimp nauplii three times daily. Larvae are not fed 12 hours prior to termination of test.
14. Cleaning	Siphon daily, immediately before test solution renewal
15. Aeration	None

REPORT OF LABORATORY ANALYSIS

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TABLE 2 (CONT.)

16. Dilution Water	Moderately Hard Synthetic Water prepared with MILLI-Q deionized water and reagent grade chemicals
17. Effluent concentrations	0%, 3%, 5%, 6%, 8%, 11%
18. Test duration	7 days
19. Endpoints	Survival and growth
20. Test acceptability	80% or greater survival in the controls, Average dry weight in controls >0.25 mg, Coefficient of variation in the control must not exceed 40%.

**TABLE 2 (CONT.)
SUMMARY OF TEST CONDITIONS FOR THE CLADOCERAN
(Ceriodaphnia dubia) SURVIVAL AND REPRODUCTION TEST**

1. Test type	Static renewal
2. Temperature	25 degrees Celsius
3. Light quality	Ambient laboratory light
4. Light intensity	Ambient laboratory levels
5. Photoperiod	16 hr light, 8 hr dark
6. Test chamber size	30 ml
7. Test solution volume	25 ml

REPORT OF LABORATORY ANALYSIS

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TABLE 2 (CONT.)

8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10. No. larvae/chamber	1
11. No. replicates/concentration	10
12. No. larvae/concentration	10
13. Feeding regime	Feed 0.1 ml YCT three times daily. Larvae are not fed 12 hours prior to termination of test.
14. Cleaning	Siphon daily, immediately before test solution renewal
15. Aeration	None
16. Dilution Water	Moderately Hard Synthetic Water prepared with MILLI-Q deionized water and reagent grade chemicals
17. Effluent concentrations	0%, 3%, 5%, 6%, 8%, 11%
18. Test duration	Until 60% or more surviving control females have three broods or a maximum of 8 days.
19. Endpoints	Survival and Reproduction
20. Test acceptability	80% or greater survival in the controls, Average reproduction rate of 15 young / adult. Coefficient of variation in the control must not exceed 40%.

REPORT OF LABORATORY ANALYSIS

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TABLE 2 (SECTION 2)

**BIOMONITORING CHRONIC TOXICITY REPORT
FATHEAD MINNOW (Pimephales promelas)
CHEMICAL PARAMETERS CHART**

Permittee: CITY OF FORT SMITH (P-STREET). Effluent discharge.

ANALYSTS: Pace Analytical Services, Inc.
Timothy Harrell
Mike Bollin

SAMPLE NO. 1 COLLECTED: DATE: 5-12-14

SAMPLE NO. 2 COLLECTED: DATE: 5-14-14

SAMPLE NO. 3 COLLECTED: DATE: 5-16-14

**TABLE 2 (SECTION 2)
INITIAL WATER QUALITY
EFFLUENT CONCENTRATION**

	Control	100%
PH	7.59	7.08
D.O.	8.70	8.00
Temp	25.0	25.0
Alk	58	66
Hard	90	82
Cond	381	354
Chlorine	<0.1	<0.1

- * D.O. is reported as mg/L
- Alkalinity is reported as mg/L CaCO₃
- Hardness is reported as mg/L CaCO₃
- Conductance is reported as umhos
- Chlorine is reported as mg/L

REPORT OF LABORATORY ANALYSIS

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TEST WATER QUALITY

24-Hour Water Quality Measurements

Effluent Concentration (%)	PH	D.O. (mg/l)	Temperature (C)
0% Control	7.76	7.70	25.1
3% Effluent	7.74	7.60	24.9
5% Effluent	7.71	7.60	24.9
6% Effluent	7.71	7.60	24.9
8% Effluent	7.68	7.50	24.9
11% Effluent	7.65	7.50	24.9

48-Hour Water Quality Measurements

Effluent Concentration (%)	PH	D.O. (mg/l)	Temperature (C)
0% Control	7.68	7.20	25.1
3% Effluent	7.74	7.20	24.9
5% Effluent	7.78	7.20	24.9
6% Effluent	7.80	7.20	24.9
8% Effluent	7.80	7.20	24.9
11% Effluent	7.82	7.20	24.9

REPORT OF LABORATORY ANALYSIS

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FINAL WATER QUALITY

EFFLUENT CONCENTRATION

	Control	11%
pH	7.66	7.90
D.O.	7.10	7.00
Temp	25.0	25.0
Alk	62	74
Hard	96	98
Cond	485	565

- * D.O. is reported as mg/L
- Alkalinity is reported as mg/L CaCO₃
- Hardness is reported as mg/L CaCO₃
- Conductance is reported as umhos

REPORT OF LABORATORY ANALYSIS

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TEST VALIDITY

The Pimephales promelas control survival rate was 97.5%. The mean dry weight (growth) of the Pimephales promelas was determined at 0.386 mg/organism in the controls. The percent coefficient of variation (%CV) values for the fathead minnow control for survival and growth were 4.79 and 13.95. The Ceriodaphnia dubia survival rates were 100 in the control. The Ceriodaphnia in the control produced an average of 20.8 young over the seven-day exposure period. Percent CV values for Ceriodaphnia dubia control survival and reproduction was 0.00 and 16.78. Control data met or exceeded all criteria set out by EPA 821-R-02-013 for test acceptance.

CONCLUSIONS

The No Observed Effect Concentration (NOEC) for Pimephales promelas was 11% for survival and 11% for growth. The No Observed Effect Concentration (NOEC) for Ceriodaphnia dubia was 11% for Survival and 11% for Reproduction. The tests were ran using a synthetic control against effluent concentrations of 3%, 5%, 6%, 8%, and 11%. The effluent sampled on 5-12-14, 5-14-14, and 5-16-14 exhibited acceptable chronic toxicity in Pimephales promelas and in Ceriodaphnia dubia during the exposure period as described in EPA 821-R-02-013.

REPORT OF LABORATORY ANALYSIS

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APPENDIX A STATISTICAL ANNALYSIS

REPORT OF LABORATORY ANALYSIS

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60169102 Ft Smith FATHEAD SURVIVAL

File: 6169102A Transform: ARC SINE(SQUARE ROOT(Y))

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED	2.010	7.260	11.460	7.260	2.010
OBSERVED	5	0	25	0	0

Calculated Chi-Square goodness of fit test statistic = 36.9753

Table Chi-Square value (alpha = 0.01) = 13.277

Data FAIL normality test. Try another transformation.

Warning - The first three homogeneity tests are sensitive to non-normal data and should not be performed.

60169102 Ft Smith FATHEAD SURVIVAL

File: 6169102A Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro - Wilk's test for normality

D = 0.054

W = 0.558

Critical W (P = 0.05) (n = 30) = 0.927

Critical W (P = 0.01) (n = 30) = 0.900

Data FAIL normality test. Try another transformation.

Warning - The first three homogeneity tests are sensitive to non-normal data and should not be performed.

60169102 Ft Smith FATHEAD SURVIVAL

File: C:\TOXSTAT\6169102A. Transform: ARC SINE(SQUARE ROOT(Y))

Hartley's test for homogeneity of variance
Bartlett's test for homogeneity of variance

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption.
Additional transformations are useless.

60169102 Ft Smith FATHEAD SURVIVAL

File: 6169102A

Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	5	0.991	1.107	1.084
2	3%	5	1.107	1.107	1.107
3	5%	5	0.991	1.107	1.084
4	6%	5	0.991	1.107	1.084
5	8%	5	0.991	1.107	1.084
6	11%	5	0.991	1.107	1.084

60169102 Ft Smith FATHEAD SURVIVAL

File: 6169102A

Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.003	0.052	0.023	4.79
2	3%	0.000	0.000	0.000	0.00
3	5%	0.003	0.052	0.023	4.79
4	6%	0.003	0.052	0.023	4.79
5	8%	0.003	0.052	0.023	4.79
6	11%	0.003	0.052	0.023	4.79

60169102 Ft Smith FATHEAD SURVIVAL

File: C:\TOXSTAT\6169102A.

Transform: ARC SINE(SQUARE ROOT(Y))

STEEL'S MANY-ONE RANK TEST

Ho: Control < Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	RANK SUM	CRIT. VALUE	df	SIG
1	CONTROL	1.084				
2	3%	1.107	30.00	16.00	5.00	
3	5%	1.084	27.50	16.00	5.00	
4	6%	1.084	27.50	16.00	5.00	
5	8%	1.084	27.50	16.00	5.00	
6	11%	1.084	27.50	16.00	5.00	

Critical values use $k = 5$, are 1 tailed, and $\alpha = 0.05$

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B Transform: NO TRANSFORMATION

Shapiro - Wilk's test for normality

D = 0.033

W = 0.956

Critical W (P = 0.05) (n = 30) = 0.927

Critical W (P = 0.01) (n = 30) = 0.900

Data PASS normality test at P=0.01 level. Continue analysis.

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B Transform: NO TRANSFORMATION

Bartlett's test for homogeneity of variance

Calculated B1 statistic = 3.29

Table Chi-square value = 15.09 (alpha = 0.01, df = 5)

Table Chi-square value = 11.07 (alpha = 0.05, df = 5)

Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B

Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	5	0.301	0.439	0.386
2	3%	5	0.374	0.440	0.419
3	5%	5	0.353	0.432	0.387
4	6%	5	0.381	0.440	0.413
5	8%	5	0.311	0.420	0.384
6	11%	5	0.363	0.454	0.404

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B

Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.003	0.054	0.024	13.95
2	3%	0.001	0.028	0.012	6.67
3	5%	0.001	0.032	0.014	8.20
4	6%	0.001	0.024	0.011	5.87
5	8%	0.002	0.043	0.019	11.29
6	11%	0.001	0.033	0.015	8.09

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B

Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	0.006	0.001	0.844
Within (Error)	24	0.033	0.001	
Total	29	0.039		

Critical F value = 2.62 (0.05,5,24)

Since $F < \text{Critical } F$ FAIL TO REJECT H_0 : All equal

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B

Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 1 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	CONTROL	0.386	0.386		
2	3%	0.419	0.419	-1.400	
3	5%	0.387	0.387	-0.026	
4	6%	0.413	0.413	-1.127	
5	8%	0.384	0.384	0.111	
6	11%	0.404	0.404	-0.751	

Dunnett table value = 2.36 (1 Tailed Value, P=0.05, df=24,5)

60169102 Ft Smith FATHEAD GROWTH

File: 6169102B

Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	5			
2	3%	5	0.055	14.3	-0.033
3	5%	5	0.055	14.3	-0.001
4	6%	5	0.055	14.3	-0.026
5	8%	5	0.055	14.3	0.003
6	11%	5	0.055	14.3	-0.018

FISHER'S EXACT TEST

=====			
NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS

CONTROL	10	0	10
3%	10	0	10

TOTAL	20	0	20
=====			

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

=====			
NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS

CONTROL	10	0	10
5%	10	0	10

TOTAL	20	0	20
=====			

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

=====			
NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS

CONTROL	10	0	10
6%	10	0	10

TOTAL 20 0 20

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

IDENTIFICATION	NUMBER OF		
	ALIVE	DEAD	TOTAL ANIMALS
CONTROL	10	0	10
8%	10	0	10
TOTAL	20	0	20

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

IDENTIFICATION	NUMBER OF		
	ALIVE	DEAD	TOTAL ANIMALS
CONTROL	10	0	10
11%	10	0	10
TOTAL	20	0	20

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

SUMMARY OF FISHER'S EXACT TESTS

NUMBER	NUMBER	SIG
--------	--------	-----

GROUP	IDENTIFICATION	EXPOSED	DEAD	(P=.05)
	CONTROL	10	0	
1	3%	10	0	
2	5%	10	0	
3	6%	10	0	
4	8%	10	0	
5	11%	10	0	

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
File: 6169102E Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED	4.020	14.520	22.920	14.520	4.020
OBSERVED	3	18	15	24	0

Calculated Chi-Square goodness of fit test statistic = 14.0390

Table Chi-Square value (alpha = 0.01) = 13.277

Data FAIL normality test. Try another transformation.

Warning - The first three homogeneity tests are sensitive to non-normal data and should not be performed.

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
File: 6169102E Transform: NO TRANSFORMATION

Bartlett's test for homogeneity of variance
Calculated B1 statistic = 1.02

Table Chi-square value = 15.09 (alpha = 0.01, df = 5)
Table Chi-square value = 11.07 (alpha = 0.05, df = 5)

Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
File: 6169102E Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	10	16.000	25.000	20.800
2	3%	10	16.000	24.000	21.000
3	5%	10	16.000	26.000	21.700
4	6%	10	15.000	25.000	20.900
5	8%	10	18.000	25.000	21.500
6	11%	10	18.000	26.000	21.700

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
File: 6169102E Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	12.178	3.490	1.104	16.78
2	3%	9.111	3.018	0.955	14.37
3	5%	12.011	3.466	1.096	15.97
4	6%	11.211	3.348	1.059	16.02
5	8%	6.722	2.593	0.820	12.06
6	11%	10.456	3.234	1.023	14.90

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
File: 6169102E Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	8.533	1.707	0.166
Within (Error)	54	555.200	10.281	
Total	59	563.733		

Critical F value = 2.45 (0.05,5,40)
Since $F < \text{Critical } F$ FAIL TO REJECT H_0 : All equal

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
 File: 6169102E Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 1 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	CONTROL	20.800	20.800		
2	3%	21.000	21.000	-0.139	
3	5%	21.700	21.700	-0.628	
4	6%	20.900	20.900	-0.070	
5	8%	21.500	21.500	-0.488	
6	11%	21.700	21.700	-0.628	

Dunnett table value = 2.31 (1 Tailed Value, P=0.05, df=40,5)

60169102 Fort Smith CERIODAPHNIA DUBIA REPRODU
 File: 6169102E Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	10			
2	3%	10	3.312	15.9	-0.200
3	5%	10	3.312	15.9	-0.900
4	6%	10	3.312	15.9	-0.100
5	8%	10	3.312	15.9	-0.700
6	11%	10	3.312	15.9	-0.900

Conc. ID	1	2	3	4	5	6
Conc. Tested	0	3	5	6	8	11
Response 1	25	23	22	17	23	26
Response 2	16	23	22	15	25	18
Response 3	18	17	17	21	19	19
Response 4	24	20	16	20	24	24
Response 5	22	24	25	24	21	18
Response 6	23	22	25	22	25	23
Response 7	20	16	24	24	21	23
Response 8	25	23	21	25	18	26
Response 9	16	18	26	18	19	18
Response 10	19	24	19	23	20	22

*** Inhibition Concentration Percentage Estimate ***

Toxicant/Effluent: Ft Smith

Test Start Date: 5/13/14 Test Ending Date: 5/20/14

Test Species: Dubia

Test Duration: 7 Day

DATA FILE:

Conc. ID	Number Replicates	Concentration	Response Means	Std. Dev.	Pooled Response Means
1	10	0.000	20.800	3.490	21.267
2	10	3.000	21.000	3.018	21.267
3	10	5.000	21.700	3.466	21.267
4	10	6.000	20.900	3.348	21.267
5	10	8.000	21.500	2.593	21.267
6	10	11.000	21.700	3.234	21.267

*** No Linear Interpolation Estimate can be calculated from the input data since none of the (possibly pooled) group response means were less than 75% of the control response mean.

Conc. ID	1	2	3	4	5	6
Conc. Tested	0	3	5	6	8	11
Response 1	.399	.374	.353	.420	.311	.407
Response 2	.421	.440	.432	.428	.420	.363
Response 3	.439	.436	.400	.440	.379	.454
Response 4	.372	.436	.361	.381	.408	.396
Response 5	.301	.410	.389	.395	.401	.400

*** Inhibition Concentration Percentage Estimate ***
 Toxicant/Effluent: Ft Smith
 Test Start Date: 5/13/14 Test Ending Date: 5/20/14
 Test Species: Fathead
 Test Duration: 7 Day
 DATA FILE:

Conc. ID	Number Replicates	Concentration	Response Means	Std. Dev.	Pooled Response Means
1	5	0.000	0.386	0.054	0.403
2	5	3.000	0.419	0.028	0.403
3	5	5.000	0.387	0.032	0.400
4	5	6.000	0.413	0.024	0.400
5	5	8.000	0.384	0.043	0.394
6	5	11.000	0.404	0.033	0.394

*** No Linear Interpolation Estimate can be calculated from the input data since none of the (possibly pooled) group response means were less than 75% of the control response mean.

APPENDIX B
CHAIN OF CUSTODY FORMS

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Sample Condition Upon Receipt

Client Name: FT Smith
 Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking #: _____ Pace Shipping Label Used? Yes No
 Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No
 Packing Material: Bubble Wrap Bubble Bags Foam None Other
 Thermometer Used: T-111 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.
 Cooler Temperature: 2.8 (circle one)

Optional
 Proj Due Date:
 Proj Name:

Date and initials of person examining contents: MS 5/19/14 140

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Sample Condition Upon Receipt

Client Name: Ft Smith

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T-243 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 1.6 (circle one)

Date and initials of person examining contents: MB 5/17/14 1300

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>wt</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

APPENDIX C

REFERENCE TOXICANTS SUMMARY

REPORT OF LABORATORY ANALYSIS

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The absence of significant control mortality during this test indicated the health of the organisms and indicated that any significant mortality in the test concentrations was not due to contaminants or variations in testing conditions.

Reference toxicity testing is routinely performed by staff members in our biomonitoring - bioassay laboratory.

Start: 4/30/14 10:30 End: 5/7/14 11:00

Reference Toxicant (NaCl) Pimephales promelas

Concentration of Toxicant	Avg. # of Live Organisms/replicate			
	0 hrs	24 hrs	48 hrs	7 days
10 g/l	40	8	2	0
8 g/l	40	32	25	6
6 g/l	40	38	36	25
4 g/l	40	40	40	40
2 g/l	40	40	40	40

IC25 (5.25 g/l Sodium Chloride)

Survival NOEC: 4.0 g/l

Reference Toxicant (NaCl) Ceriodaphnia Dubia

Concentration of Toxicant	Avg. # of Live Organisms/replicate			
	0 hrs	24 hrs	48 hrs	7 days
2.5 g/l	10	4	0	0
2.0 g/l	10	10	7	2
1.5 g/l	10	10	10	10
1.0 g/l	10	10	10	10
0.5 g/l	10	10	10	10

IC25 (1.11 g/l Sodium Chloride)

Survival NOEC: 1.5 g/l

Submitted By:


Timothy Harrell, Technical Director

REPORT OF LABORATORY ANALYSIS

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APPENDIX D
STATE AGENCY FORMS

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Biomonitoring Form
 Chronic Toxicity Summary Form
Ceriodaphnia dubia
 Chemical Parameters Chart

Permittee: City of Fort Smith
 NPDES No.: AR 0033278
 Contact: Lance McAvoy
 Analyst: Tim Harrell
 Mike Bollin

Sample No. 1 Collected: Date: 5/12/2014 Time: 8:00
 Sample No. 2 Collected: Date: 5/14/2014 Time: 8:00
 Sample No. 3 Collected: Date: 5/16/2014 Time: 8:00
 Test Begin: Date: 5/13/2014 Time: 14:30
 Test End: Date: 5/20/2014 Time: 13:00

Dilution: 0 Day:								Dilution: 6 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	25.1	25	25.1	25	25.1	25		Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25	
DO Initial	8.7	8.4	8.1	8.1	8.1	8.5	8.3		DO Initial		8.3	8.2	8.2	8.1	8.5	8.3	
DO Final	7.7	7.2	7.5	8.2	7.3	7.4	7.1		DO Final	7.6	7.2	7.5	7.2	7.3	7.4	7.1	
pH Initial	7.59	7.64	7.58	7.46	7.41	7.6	7.52		pH Initial		7.63	7.69	7.49	7.56	7.78	7.76	
pH Final	7.76	7.68	7.66	7.55	7.54	7.72	7.66		pH Final	7.71	7.8	7.72	7.6	7.65	7.75	7.83	
Alkalinity	58								Alkalinity								
Hardness	90								Hardness								
Conductivity	381								Conductivity								
Chlorine	<.1						<.1		Chlorine								

Dilution: 3 Day:								Dilution: 8 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25		Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25	
DO Initial		8.4	8.1	8.1	8.1	8.5	8.3		DO Initial		8.3	8.2	8.2	8.1	8.4	8.2	
DO Final	7.6	7.2	7.5	7.2	7.3	7.4	7.1		DO Final	7.5	7.2	7.5	7.2	7.3	7.4	7	
pH Initial		7.64	7.63	7.48	7.48	7.67	7.65		pH Initial		7.63	7.74	7.5	7.6	7.81	7.81	
pH Final	7.74	7.74	7.69	7.58	7.59	7.72	7.76		pH Final	7.68	7.8	7.76	7.61	7.66	7.75	7.86	
Alkalinity									Alkalinity								
Hardness									Hardness								
Conductivit									Conductivit								
Chlorine									Chlorine								

Dilution: 5 Day:								Dilution: 11 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25		Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25	Init. 100%
DO Initial		8.3	8.1	8.1	8.1	8.5	8.3		DO Initial		8.3	8.3	8.2	8.1	8.4	8.2	8
DO Final	7.6	7.2	7.5	7.2	7.3	7.4	7.1		DO Final	7.5	7.2	7.4	7.2	7.2	7.4	7	
pH Initial		7.63	7.65	7.49	7.52	7.73	7.68		pH Initial		7.63	7.77	7.52	7.61	7.85	7.86	7.08
pH Final	7.71	7.78	7.7	7.6	7.62	7.73	7.81		pH Final	7.65	7.82	7.78	7.63	7.72	7.78	7.9	
Alkalinity									Alkalinity								66
Hardness									Hardness								82
Conductivit									Conductivit								354
Chlorine									Chlorine							<.1	<.1

**Summary Reporting Forms
Chronic Biomonitoring**

Ceriodaphnia dubia Survival and Reproduction

Permittee: City of Fort Smith NPDES No.: AR 0033278

Composite 1 Collected	Time:	Date:	Time:	Date:
	From 8:00	5/11/2014	To 8:00	5/12/2014

Composite 2 Collected	From 8:00	5/13/2014	To 8:00	5/14/2014
-----------------------	-----------	-----------	---------	-----------

Composite 3 Collected	From 8:00	5/15/2014	To 8:00	5/16/2014
-----------------------	-----------	-----------	---------	-----------

Test initiated: am/pm 14:30 date 5/13/2014
 Test terminated: am/pm 13:00 date 5/20/2014

Dilution water used: Receiving Reconstituted X

Percent Survival

Time of Reading	Percent Effluent					
	0	3	5	6	8	11
24h	100	100	100	100	100	100
48h	100	100	100	100	100	100
End of test	100	100	100	100	100	100

Number of Young Produced per Female @ End of Test

Rep	0	3	5	6	8	11
A	25	23	22	17	23	26
B	16	23	22	15	25	18
C	18	17	17	21	19	19
D	24	20	16	20	24	24
E	22	24	25	24	21	18
F	23	22	25	22	25	23
G	20	16	24	24	21	23
H	25	23	21	25	18	26
I	16	18	26	18	19	18
J	19	24	19	23	20	22
Mean	20.8	21	21.7	20.9	21.5	21.7
CV%*	16.78	14.37	15.97	16.02	12.06	14.9

*coefficient of variation = standard deviation x 100/mean.

Ceriodaphnia dubia
Survival and Reproduction (cont)

1. Fisher's Exact Test:

Is the mean survival at the end of the test significantly different ($p=.05$) than the control survival for the % effluent corresponding to (lethality):

a) Low Flow or Critical Dilution	(8 %):	Yes:	No: X
b) 1/2 Low Flow Dilution	(%):	Yes:	No:

2. Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean number of young produced per female significantly different ($p=.05$) than the control's number of young per female for the % effluent corresponding to (significant non-lethal effects):

a) Low Flow or Critical Dilution	(8 %):	Yes:	No: X
b) 1/2 Low Flow Dilution	(%):	Yes:	No:

3. If you answered NO to 1. a) and 2. a) enter (0) otherwise enter (1): 0

4. If you answered NO to 1. b) and 2. b) enter (0) otherwise enter (1):

5. Enter response to item 3 on DMR Form, parameter #TEP3B.

6. Enter response to item 4 on DMR Form, parameter #TFP3B.

7. Enter percent effluent corresponding to each NOEC below and circle lowest number:

a) NOEC survival:	11 % effluent
b) NOEC reproduction:	11 % effluent

Biomonitoring Form
 Chronic Toxicity Summary Form
Pimephales promelas
 Chemical Parameters Chart

Permittee: City of Fort Smith
 NPDES No.: AR 0033278
 Contact: Lance McAvoy
 Analyst: Tim Harrell
 Mike Bollin

Sample No. 1 Collected: Date: 5/12/2014 Time: 8:00
 Sample No. 2 Collected: Date: 5/14/2014 Time: 8:00
 Sample No. 3 Collected: Date: 5/16/2014 Time: 8:00
 Test Begin: Date: 5/13/2014 Time: 14:30
 Test End: Date: 5/20/2014 Time: 13:00

Dilution: 0 Day:								Dilution: 6 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	25.1	25	25.1	25	25.1	25		Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25	
DO Initial	8.7	8.4	8.1	8.1	8.1	8.5	8.3		DO Initial		8.3	8.2	8.2	8.1	8.5	8.3	
DO Final	7.7	7.2	7.5	8.2	7.3	7.4	7.1		DO Final	7.6	7.2	7.5	7.2	7.3	7.4	7.1	
pH Initial	7.59	7.64	7.58	7.46	7.41	7.6	7.52		pH Initial		7.63	7.69	7.49	7.56	7.78	7.76	
pH Final	7.76	7.68	7.66	7.55	7.54	7.72	7.66		pH Final	7.71	7.8	7.72	7.6	7.65	7.75	7.83	
Alkalinity	58								Alkalinity								
Hardness	90								Hardness								
Conductivity	381								Conductivity								
Chlorine	<.1						<.1		Chlorine								

Dilution: 3 Day:								Dilution: 8 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25		Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25	
DO Initial		8.4	8.1	8.1	8.1	8.5	8.3		DO Initial		8.3	8.2	8.2	8.1	8.4	8.2	
DO Final	7.6	7.2	7.5	7.2	7.3	7.4	7.1		DO Final	7.5	7.2	7.5	7.2	7.3	7.4	7	
pH Initial		7.64	7.63	7.48	7.48	7.67	7.65		pH Initial		7.63	7.74	7.5	7.6	7.81	7.81	
pH Final	7.74	7.74	7.69	7.58	7.59	7.72	7.76		pH Final	7.68	7.8	7.76	7.61	7.66	7.75	7.86	
Alkalinity									Alkalinity								
Hardness									Hardness								
Conductivity									Conductivity								
Chlorine									Chlorine								

Dilution: 5 Day:								Dilution: 11 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25		Temp (C)	24.9	24.9	24.9	25	24.9	24.8	25	Init. 100%
DO Initial		8.3	8.1	8.1	8.1	8.5	8.3		DO Initial		8.3	8.3	8.2	8.1	8.4	8.2	8
DO Final	7.6	7.2	7.5	7.2	7.3	7.4	7.1		DO Final	7.5	7.2	7.4	7.2	7.2	7.4	7	
pH Initial		7.63	7.65	7.49	7.52	7.73	7.68		pH Initial		7.63	7.77	7.52	7.61	7.85	7.86	7.08
pH Final	7.71	7.78	7.7	7.6	7.62	7.73	7.81		pH Final	7.65	7.82	7.78	7.63	7.72	7.78	7.9	
Alkalinity									Alkalinity								66
Hardness									Hardness								82
Conductivity									Conductivity								354
Chlorine									Chlorine							<.1	<.1

**Summary Reporting Forms Chronic Biomonitoring
Fathead Minnow Larvae Growth and Survival
(Pimephales promelas)**

Permittee: City of Fort Smith NPDES No.: AR 0033278

Composite 1 Collected	Time:	Date:	To	Time:	Date:
	From	8:00		5/11/2014	8:00	5/12/2014

Composite 2 Collected	From	8:00	5/13/2014	To	8:00	5/14/2014
-----------------------	------	------	-----------	----	------	-----------

Composite 3 Collected	From	8:00	5/15/2014	To	8:00	5/16/2014
-----------------------	------	------	-----------	----	------	-----------

Test initiated: am/pm 14:30 date 5/13/2014
 Test terminated: am/pm 13:00 date 5/20/2014

Dilution water used: Receiving Reconstituted X

Data Table for Survival

Effluent Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
Syn 0 %	100	100	100	100	87.5	100	100	97.5	4.79
3%	100	100	100	100	100	100	100	100	0
5%	100	100	100	87.5	100	100	100	97.5	4.79
6%	100	100	100	87.5	100	100	100	97.5	4.79
8%	87.5	100	100	100	100	100	100	97.5	4.79
11%	100	87.5	100	100	100	100	100	97.5	4.79

Data Table for Survival

Effluent Conc. %	Average Dry Weight in milligrams in Replicate Chambers					Mean Dry Weight mg	CV%*
	A	B	C	D	E		
Syn. 0%	0.399	0.421	0.439	0.372	0.301	0.386	13.95
3%	0.374	0.44	0.436	0.436	0.41	0.419	6.67
5%	0.353	0.432	0.4	0.361	0.389	0.387	8.2
6%	0.42	0.428	0.44	0.381	0.395	0.413	5.87
8%	0.311	0.42	0.379	0.408	0.401	0.384	11.29
11%	0.407	0.363	0.454	0.396	0.4	0.404	8.09

*coefficient of variation = standard deviation x 100/mean.

Fathead Minnow Larvae Growth and Survival (cont)
(Pimephales promelas)

1. Dunnett's Procedure or Steels Many-One Rank Test as appropriate:

Is the mean survival at 7 days significantly different ($p=.05$) than the control survival for the % effluent corresponding to:

a) Low Flow or Critical Dilution	(8 %):	Yes:	No: X
b) 1/2 Low Flow Dilution	(%):	Yes:	No:

2. Dunnett's Procedure (or appropriate test):

Is the mean dry weight (growth) of the effluent at 7 days significantly different ($p=0.05$) than the control's dry weight for the % effluent corresponding to (significant non-lethal effects):

a) Low Flow or Critical Dilution	(8 %):	Yes:	No: X
b) 1/2 Low Flow Dilution	(%):	Yes:	No:

3. If you answered NO to 1. a) and 2. a) enter (0) otherwise enter (1): 0

4. If you answered NO to 1. b) and 2. b) enter (0) otherwise enter (1):

5. Enter response to item 3 on DMR Form, parameter #TEP6C.

6. Enter response to item 4 on DMR Form, parameter #TFP6C.

7. Enter percent effluent corresponding to each NOEC below and circle lowest number:

a) NOEC survival:	11 % effluent
b) NOEC reproduction:	11 % effluent



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1	
Company: City of Fort Smith		Report To: Lance McAvoy		Attention: Lance McAvoy		1776646	
Address: 3900 Kelley Hwy Ft. Smith AR 72904		Copy To:		Company Name: City of Fort Smith		REGULATORY AGENCY:	
Email To:		Purchase Order No.:		Address: 3900 Kelley Hwy, Ft Smith 72904		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Phone: 479-781-2337 Fax:		Project Name: P Street Biomonitoring		Pace Cycle Reference:		Site Location:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager:		STATE: AR	
				Pace Profile #:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE:	MATRIX CODE (see matrix codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol	Other	ICE	Analysis Test ↓	Chronic Mirotox	Chronic Genotoxicity			
	SAMPLE ID (A-Z, 0-9 / -)				DATE	TIME	DATE	TIME																	
1	"P" Street Effluent		W	C	5/12/14	0800	5/12/14	0800	5/12/14	1															
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACQUIRED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
T ₁ Cl ₂ = 0.02 FCl ₂ = 0.00 ^{MLP} dol	Amber Parham / City of Fort Smith	5/12/14	1200	Amber Parham / City of Fort Smith	5/13/14	1415	3.0 Y Y Y

Page 73 of 73

ORIGINAL

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Amber Parham		DATE Signed (MM/DDYY): 5/12/14	
SIGNATURE of SAMPLER: <i>Amber Parham</i>			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

AR0021750

2nd QTR 2014



City of Fort Smith
ATTN: Mr. Lance McAvoy
3900 Kelley Highway
Fort Smith, AR 72904

RECEIVED

APR 21 2014

WATER/WASTEWATER

April 16, 2014
Control No. 177262
Page 1 of 52

This report contains the analytical results and supporting information for samples submitted on April 8, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.

John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: City of Fort Smith
ATTN: Mr. Lance McAvoy
lmcavoy@fortsmithar.gov



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

SAMPLE INFORMATION

Project Description:

One (1) water and one (1) sludge sample(s) received on April 8, 2014
Massard Table II / III Priority Pollutants

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
177262-1	Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930	07-Apr-2014 0930	
177262-2	Massard Raw Biosolid 4/7/14 0947	07-Apr-2014 0947	

Qualifiers:

- D Result is from a secondary dilution factor
- Q Analyte is not within quality control limits
- R n-Nitrosodiphenylamine cannot be separated from diphenylamine
- X Spiking level is invalid due to the high concentration of analyte in the spiked sample

Case Narrative:

High relative percent difference for Hexachloropentadiene in the Base/Neutral and Acid matrix spike/matrix spike duplicate is due to matrix interference. Matrix spike / matrix spike duplicate results for Organochlorine Pesticides are not available due to matrix interference.

Analysis of soils/sludges are reported on a dry-weight basis unless specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-1

Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	30	5	ug/l	
Prep: 09-Apr-2014 0739 by 308	Analyzed: 09-Apr-2014 1040 by 308		Batch: W47271	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 09-Apr-2014 0804 by 308	Analyzed: 09-Apr-2014 1135 by 308		Batch: W47273	
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Arsenic EPA 200.8	2.9	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Copper EPA 200.8	13	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Lead EPA 200.8	7.1	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Nickel EPA 200.8	5.6	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Silver EPA 200.8	1.8	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Total Recoverable Zinc EPA 200.8	98	20	ug/l	
Prep: 08-Apr-2014 1133 by 285	Analyzed: 08-Apr-2014 1353 by 305		Batch: S36576	
Base/Neutral and Acid Compounds By EPA 625				
Acenaphthene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Acenaphthylene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Anthracene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Benzidine EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Benzo(a)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-1 (Continued)

Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Benzo(a)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Benzo(g,h,i)perylene EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Benzo(k)fluoranthene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
3,4-Benzofluoranthene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Bis(2-chloroethoxy)methane EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Bis(2-chloroethyl)ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Bis(2-chloroisopropyl)ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Bis(2-ethylhexyl)phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
4-Bromophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Butylbenzyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2-Chloronaphthalene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2-Chlorophenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
4-Chlorophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Chrysene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Di-n-butyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Di-n-octyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Dibenz(a,h)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
3,3'-Dichlorobenzidine EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2,4-Dichlorophenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Diethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-1 (Continued)

Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Dimethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2,4-Dimethylphenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
4,6-Dinitro-o-cresol EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2,4-Dinitrophenol EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2,4-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2,6-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
1,2-Diphenylhydrazine EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Fluorene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Hexachlorobenzene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Hexachlorobutadiene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Hexachlorocyclopentadiene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Hexachloroethane EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Indeno(1,2,3-cd)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Isophorone EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
n-Nitrosodi-n-propylamine EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
n-Nitrosodimethylamine EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
n-Nitrosodiphenylamine EPA 625	< 20	20	ug/l	R
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Naphthalene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Nitrobenzene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2-Nitrophenol EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 177262-1 (Continued)
Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
4-Nitrophenol EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
p-Chloro-m-cresol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Pentachlorophenol EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Phenanthrene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Phenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Pyrene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
1,2,4-Trichlorobenzene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
2,4,6-Trichlorophenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 625	94.0		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 625	66.5		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 625	93.0		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 625	104		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 625	85.8		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2343 by 301		Batch: B8896	
Volatile Organic Compounds By EPA 624				
Acrolein EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Acrylonitrile EPA 624	< 20	20	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Benzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Bromoform EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Carbon tetrachloride EPA 624	< 2.0	2.0	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Chlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-1 (Continued)

Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Chlorodibromomethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Chloroethane EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
2-Chloroethyl vinyl ether EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Chloroform EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,2-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,3-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,4-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Dichlorobromomethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,1-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,2-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,1-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
trans-1,2-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,2-Dichloropropane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,3-Dichloropropylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Ethylbenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Methyl bromide(Bromomethane) EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Methyl chloride(Chloromethane) EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Methylene chloride EPA 624	< 20	20	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,1,2,2-Tetrachloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Tetrachloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 177262-1 (Continued)
Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Toluene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,1,1-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
1,1,2-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Trichloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Vinyl chloride EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 624	95.7		%	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Surrogate: Dibromofluoromethane (85.0-115%) EPA 624	108		%	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Surrogate: Toluene-D8 (85.0-120%) EPA 624	101		%	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1716 by 301		Batch: V8491	
Organochlorine Pesticides and PCBs By EPA 608				
Aldrin EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
alpha-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
alpha-Endosulfan EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
beta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
beta-Endosulfan EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Chlordane EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Chlorpyrifos EPA 608	< 0.070	0.070	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
4,4'-DDD EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
4,4'-DDE EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
4,4'-DDT EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
delta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-1 (Continued)

Sample Identification: Massard Influent 4/7/14 0924, 0926, 0928, 0929, 0930

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides and PCBs By EPA 608 (Continued)				
Dieldrin EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Endosulfan sulfate EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Endrin EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Endrin aldehyde EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
gamma-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Heptachlor EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Heptachlor epoxide EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1016 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1221 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1232 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1242 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1248 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1254 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
PCB 1260 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Toxaphene EPA 608	< 0.30	0.30	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 608	77.8		%	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 608	85.4		%	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1700 by 306		Batch: G9659	

AIC No. 177262-2

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 2	2	mg/Kg	
Prep: 11-Apr-2014 0828 by 308	Analyzed: 14-Apr-2014 1452 by 308		Batch: W47300	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 177262-2 (Continued)
Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 9065	79 Prep: 11-Apr-2014 0828 by 308 Analyzed: 11-Apr-2014 1415 by 308	10 Analyzed: 11-Apr-2014 1415 by 308	mg/Kg Batch: W47299	
Total Solids SM 2540 G 1997	5.3 Prep: 12-Apr-2014 1611 by 271 Analyzed: 14-Apr-2014 1458 by 271	0.01 Analyzed: 14-Apr-2014 1458 by 271	wt % Batch: W47317	
Antimony EPA 3051A, 6010C	< 3 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	3 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Arsenic EPA 3051A, 6010C	< 5 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	5 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Beryllium EPA 3051A, 6010C	0.22 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.03 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Cadmium EPA 3051A, 6010C	2.7 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.4 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Chromium EPA 3051A, 6010C	15 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.7 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Copper EPA 3051A, 6010C	210 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.6 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Lead EPA 3051A, 6010C	27 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	4 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Molybdenum EPA 3051A, 6010C	5.2 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.8 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Nickel EPA 3051A, 6010C	22 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	1 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Selenium EPA 3051A, 6010C	< 7 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	7 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Silver EPA 3051A, 6010C	15 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.7 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Thallium EPA 3051A, 6010C	< 4 Prep: 09-Apr-2014 1053 by 285 Analyzed: 10-Apr-2014 1044 by 305	4 Analyzed: 10-Apr-2014 1044 by 305	mg/Kg Batch: S36588	
Zinc EPA 3051A, 6010C	670 Prep: 09-Apr-2014 1053 by 285 Analyzed: 09-Apr-2014 1726 by 305	0.2 Analyzed: 09-Apr-2014 1726 by 305	mg/Kg Batch: S36588	
Mercury EPA 7471B	0.81 Prep: 09-Apr-2014 0944 by 311 Analyzed: 09-Apr-2014 1249 by 311	0.1 Analyzed: 09-Apr-2014 1249 by 311	mg/Kg Batch: S36586	
Base/Neutral and Acid Compounds By EPA 3550C, 8270D				
3 & 4-Methylphenol EPA 3550C, 8270D	210000 Prep: 09-Apr-2014 1413 by 306 Analyzed: 10-Apr-2014 1117 by 301	31000 Analyzed: 10-Apr-2014 1117 by 301	ug/Kg Batch: B8900	
Acenaphthene EPA 3550C, 8270D	< 6200 Prep: 09-Apr-2014 1413 by 306 Analyzed: 09-Apr-2014 1945 by 301	6200 Analyzed: 09-Apr-2014 1945 by 301	ug/Kg Batch: B8900	
Acenaphthylene EPA 3550C, 8270D	< 6200 Prep: 09-Apr-2014 1413 by 306 Analyzed: 09-Apr-2014 1945 by 301	6200 Analyzed: 09-Apr-2014 1945 by 301	ug/Kg Batch: B8900	
Anthracene EPA 3550C, 8270D	< 6200 Prep: 09-Apr-2014 1413 by 306 Analyzed: 09-Apr-2014 1945 by 301	6200 Analyzed: 09-Apr-2014 1945 by 301	ug/Kg Batch: B8900	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Benzo(a)anthracene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Benzo(a)pyrene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Benzo(b)fluoranthene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Benzo(g,h,i)perylene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Benzo(k)fluoranthene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Benzoic acid EPA 3550C, 8270D	< 31000	31000	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Benzyl alcohol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
bis(2-Chloroethoxy)Methane EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
bis(2-Chloroethyl)Ether EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
bis(2-Chloroisopropyl)Ether EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
bis(2-Ethylhexyl)Phthalate EPA 3550C, 8270D	16000	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4-Bromophenyl phenyl ether EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Butyl benzyl phthalate EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4-Chloro-3-methylphenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4-Chloroaniline EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2-Chloronaphthalene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2-Chlorophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4-Chlorophenyl phenyl ether EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Chrysene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Di-n-butyl phthalate EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Di-n-octyl phthalate EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Dibenz(a,h)anthracene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Dibenzofuran EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
1,2-Dichlorobenzene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
1,3-Dichlorobenzene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
1,4-Dichlorobenzene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
3,3'-Dichlorobenzidine EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2,4-Dichlorophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Diethyl phthalate EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Dimethyl phthalate EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2,4-Dimethylphenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4,6-Dinitro-2-methylphenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2,4-Dinitrophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2,4-Dinitrotoluene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2,6-Dinitrotoluene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Fluoranthene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Fluorene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Hexachlorobenzene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Hexachlorobutadiene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Hexachlorocyclopentadiene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
Hexachloroethane EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Indeno(1,2,3-cd)pyrene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Isophorone EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2-Methylnaphthalene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2-Methylphenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
N-Nitroso-di-n-propylamine EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
n-Nitrosodiphenylamine EPA 3550C, 8270D	< 6200	6200	ug/Kg	R
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Naphthalene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2-Nitroaniline EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
3-Nitroaniline EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4-Nitroaniline EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Nitrobenzene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2-Nitrophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
4-Nitrophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Pentachlorophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Phenanthrene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Phenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
Pyrene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
1,2,4-Trichlorobenzene EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	
2,4,5-Trichlorophenol EPA 3550C, 8270D	< 6200	6200	ug/Kg	
Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301		Batch: B8900	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 3550C, 8270D (Continued)				
2,4,6-Trichlorophenol	< 6200	6200	ug/Kg	
EPA 3550C, 8270D	Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301	Batch: B8900	
Surrogate: 2-Fluorobiphenyl (45.0-105%)	53.2		%	
EPA 3550C, 8270D	Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301	Batch: B8900	
Surrogate: 2-Fluorophenol (35.0-105%)	59.8		%	
EPA 3550C, 8270D	Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301	Batch: B8900	
Surrogate: Nitrobenzene-D5 (35.0-100%)	56.5		%	
EPA 3550C, 8270D	Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301	Batch: B8900	
Surrogate: Terphenyl-D14 (30.0-125%)	51.8		%	
EPA 3550C, 8270D	Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301	Batch: B8900	
Surrogate: 2,4,6-Tribromophenol (35.0-125%)	47.2		%	
EPA 3550C, 8270D	Prep: 09-Apr-2014 1413 by 306	Analyzed: 09-Apr-2014 1945 by 301	Batch: B8900	
Volatile Organic Compounds By EPA 5035, 8260C				
Acetone	8200	1900	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Benzene	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Bromobenzene	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Bromochloromethane	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Bromodichloromethane	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Bromoform	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Bromomethane	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
2-Butanone	< 1900	1900	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Carbon disulfide	< 1900	1900	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Carbon Tetrachloride	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Chlorobenzene	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
Chloroethane	< 930	930	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	
2-Chloroethyl vinyl ether	< 1900	1900	ug/Kg	
EPA 5035, 8260C	Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301	Batch: V8492	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
Chloroform EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
Chloromethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
2-Chlorotoluene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
4-Chlorotoluene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,2-Dibromo-3-chloropropane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
Dibromochloromethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,2-Dibromoethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
Dibromomethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,2-Dichlorobenzene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,3-Dichlorobenzene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,4-Dichlorobenzene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
Dichlorodifluoromethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,1-Dichloroethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,2-Dichloroethane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,1-Dichloroethene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
cis-1,2-Dichloroethene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
trans-1,2-Dichloroethene EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,2-Dichloropropane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
1,3-Dichloropropane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	
2,2-Dichloropropane EPA 5035, 8260C	< 930 Prep: 10-Apr-2014 1046 by 301 Analyzed: 15-Apr-2014 1938 by 301	930	ug/Kg Batch: V8492	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
1,1-Dichloropropene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
cis-1,3-Dichloropropene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
trans-1,3-Dichloropropene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Ethylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Hexachlorobutadiene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
2-Hexanone EPA 5035, 8260C	< 1900	1900	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Isopropylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
m&p-Xylenes EPA 5035, 8260C	< 1900	1900	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
4-Methyl-2-pentanone EPA 5035, 8260C	< 1900	1900	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Methylene chloride EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
n-Butylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
n-Propylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Naphthalene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
o-Xylene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
p-Isopropyltoluene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
sec-Butylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Styrene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
tert-Butylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,1,1,2-Tetrachloroethane EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,1,2,2-Tetrachloroethane EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 5035, 8260C (Continued)				
Tetrachloroethene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Toluene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,2,3-Trichlorobenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,2,4-Trichlorobenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,1,1-Trichloroethane EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,1,2-Trichloroethane EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Trichloroethene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Trichlorofluoromethane EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,2,3-Trichloropropane EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,2,4-Trimethylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
1,3,5-Trimethylbenzene EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Vinyl acetate EPA 5035, 8260C	< 1900	1900	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Vinyl chloride EPA 5035, 8260C	< 930	930	ug/Kg	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Surrogate: 4-Bromofluorobenzene (85.0-120%) EPA 5035, 8260C	96.5		%	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Surrogate: Dibromofluoromethane (80.0-120%) EPA 5035, 8260C	96.7		%	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Surrogate: Toluene-D8 (85.0-115%) EPA 5035, 8260C	102		%	
Prep: 10-Apr-2014 1046 by 301	Analyzed: 15-Apr-2014 1938 by 301		Batch: V8492	
Organochlorine Pesticides By EPA 3550C, 8081B				
Aldrin EPA 3550C, 8081B	< 13	13	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
alpha-BHC EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
alpha-Endosulfan EPA 3550C, 8081B	< 13	13	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177262-2 (Continued)

Sample Identification: Massard Raw Biosolid 4/7/14 0947

Analyte	Result	RL	Units	Qualifier
Organochlorine Pesticides By EPA 3550C, 8081B (Continued)				
beta-BHC EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
beta-Endosulfan EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Chlordane EPA 3550C, 8081B	< 130	130	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
4,4'-DDD EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
4,4'-DDE EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
4,4'-DDT EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
delta-BHC EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Dieldrin EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Endosulfan sulfate EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Endrin EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Endrin aldehyde EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
gamma-BHC EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Heptachlor EPA 3550C, 8081B	< 13	13	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Heptachlor epoxide EPA 3550C, 8081B	< 13	13	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Methoxychlor EPA 3550C, 8081B	< 25	25	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Toxaphene EPA 3550C, 8081B	< 250	250	ug/Kg	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Surrogate: Decachlorobiphenyl (55.0-130%) EPA 3550C, 8081B	87.4		%	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	
Surrogate: Tetrachloro-m-xylene (70.0-125%) EPA 3550C, 8081B	84.9		%	
Prep: 09-Apr-2014 1500 by 306	Analyzed: 10-Apr-2014 2056 by 306		Batch: G9661	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual	
Total Solids	177306-1	42 wt %			12Apr14 1611 by 271	14Apr14 1458 by 271			
	Batch: W47317	Duplicate	42 wt %	0.0173	10.0	12Apr14 1611 by 271	14Apr14 1458 by 271		
Volatile Organic Compounds									
Acrolein	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Acrylonitrile	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Benzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Bromodichloromethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Bromoform	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Bromomethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Carbon tetrachloride	177253-1	< 0.20 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.20 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
2-Chloroethyl vinyl ether	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	20.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chloroform	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chloromethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Dibromochloromethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,2-Dichlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,3-Dichlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,4-Dichlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1-Dichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,2-Dichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
trans-1,2-Dichloroethene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1-Dichloroethylene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,2-Dichloropropane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,3-Dichloropropylene	177253-1	< 0.10 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D	
	Batch: V8491	Duplicate	< 0.10 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Ethylbenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Methylene chloride	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1,2,2-Tetrachloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Tetrachloroethylene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Toluene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1,1-Trichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1,2-Trichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Trichloroethylene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Vinyl chloride	177253-1	< 0.20 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.20 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	177253-1	95.1 %			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	94.0 %			08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Dibromofluoromethane (85.0-115%)	177253-1	106 %			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	110 %			08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Toluene-D8 (85.0-120%)	177253-1	102 %			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	101 %			08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Volatile Organic Compounds								
Acetone	177262-2	8200 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	8600 ug/Kg	4.83	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Benzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Bromobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Bromochloromethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Bromodichloromethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Bromoform	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Bromomethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
2-Butanone	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Carbon disulfide	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Carbon Tetrachloride	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Chlorobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Chloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
2-Chloroethyl vinyl ether	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	20.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Chloroform	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Chloromethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
2-Chlorotoluene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
4-Chlorotoluene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2-Dibromo-3-chloropropane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Dibromochloromethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2-Dibromoethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Dibromomethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2-Dichlorobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,3-Dichlorobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,4-Dichlorobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Dichlorodifluoromethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,1-Dichloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2-Dichloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,1-Dichloroethene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
cis-1,2-Dichloroethene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
trans-1,2-Dichloroethene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2-Dichloropropane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,3-Dichloropropane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
2,2-Dichloropropane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,1-Dichloropropene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
cis-1,3-Dichloropropene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)								
trans-1,3-Dichloropropene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Ethylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Hexachlorobutadiene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
2-Hexanone	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Isopropylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
m&p-Xylenes	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
4-Methyl-2-pentanone	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Methylene chloride	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
n-Butylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
n-Propylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Naphthalene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
o-Xylene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
p-Isopropyltoluene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
sec-Butylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Styrene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
tert-Butylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,1,1,2-Tetrachloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,1,2,2-Tetrachloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Tetrachloroethene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Toluene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2,3-Trichlorobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2,4-Trichlorobenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,1,1-Trichloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
1,1,2-Trichloroethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Trichloroethene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Trichlorofluoromethane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2,3-Trichloropropane	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,2,4-Trimethylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
1,3,5-Trimethylbenzene	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Vinyl acetate	177262-2	< 1900 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 1900 ug/Kg	0.00	20.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
Vinyl chloride	177262-2	< 930 ug/Kg			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	< 940 ug/Kg	0.00	30.0	10Apr14 1046 by 301	16Apr14 0826 by 301		
4-Bromofluorobenzene (85.0-120%)	177262-2	96.5 %			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	99.5 %			10Apr14 1046 by 301	16Apr14 0826 by 301		
Dibromofluoromethane (80.0-120%)	177262-2	96.7 %			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	93.7 %			10Apr14 1046 by 301	16Apr14 0826 by 301		
Toluene-D8 (85.0-115%)	177262-2	102 %			10Apr14 1046 by 301	15Apr14 1938 by 301		
	Batch: V8492 Duplicate	111 %			10Apr14 1046 by 301	16Apr14 0826 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	90.9	85.0-115			W47271	09Apr14 0739 by 308	09Apr14 1040 by 308		
Total Cyanide	0.1 mg/l	108	85.0-115			W47273	09Apr14 0804 by 308	09Apr14 1129 by 308		
Total Recoverable Antimony	0.05 mg/l	109	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Arsenic	0.05 mg/l	106	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Beryllium	0.05 mg/l	101	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Cadmium	0.05 mg/l	96.7	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Chromium	0.05 mg/l	101	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Copper	0.05 mg/l	101	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Lead	0.05 mg/l	98.0	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Molybdenum	0.05 mg/l	99.2	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Nickel	0.05 mg/l	100	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Selenium	0.05 mg/l	99.3	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Silver	0.02 mg/l	97.9	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Thallium	0.05 mg/l	96.3	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Zinc	0.05 mg/l	102	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Cyanide	0.500 mg/Kg	94.9	85.0-115			W47300	11Apr14 0828 by 308	14Apr14 1450 by 308		
Total Recoverable Phenolics	10.0 mg/Kg	92.3	85.0-115			W47299	11Apr14 0828 by 308	11Apr14 1415 by 308		
Antimony	500 mg/Kg	99.2	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Arsenic	500 mg/Kg	96.8	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Beryllium	50.0 mg/Kg	96.0	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Cadmium	500 mg/Kg	96.7	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Chromium	50.0 mg/Kg	98.9	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Copper	50.0 mg/Kg	97.2	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Lead	500 mg/Kg	102	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Molybdenum	50.0 mg/Kg	101	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Nickel	50.0 mg/Kg	103	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Selenium	500 mg/Kg	93.4	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Silver	10.0 mg/Kg	99.0	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Thallium	500 mg/Kg	93.8	85.0-115			S36588	09Apr14 1053 by 285	10Apr14 1034 by 305		
Zinc	50.0 mg/Kg	96.5	85.0-115			S36588	09Apr14 1053 by 285	09Apr14 1704 by 305		
Mercury	1.25 mg/Kg	112	85.0-115			S36586	09Apr14 0945 by 311	09Apr14 1223 by 311		
Base/Neutral and Acid Compounds										
Acenaphthene	40 ug/l	84.2	45.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Acenaphthylene	40 ug/l	84.8	50.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Anthracene	40 ug/l	91.5	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzidine	100 ug/l	16.1	0.00-61.1			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(a)anthracene	40 ug/l	93.8	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(a)pyrene	40 ug/l	98.8	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(g,h,i)perylene	40 ug/l	110	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(k)fluoranthene	40 ug/l	102	45.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
3,4-Benzofluoranthene	40 ug/l	99.2	45.0-120			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Bis(2-chloroethoxy)methane	40 ug/l	81.5	45.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-chloroethyl)ether	40 ug/l	80.2	35.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-chloroisopropyl)ether	40 ug/l	86.5	25.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-ethylhexyl)phthalate	40 ug/l	90.8	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4-Bromophenyl phenyl ether	40 ug/l	93.0	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Butylbenzyl phthalate	40 ug/l	97.8	45.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Chloronaphthalene	40 ug/l	83.2	50.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Chlorophenol	40 ug/l	77.2	35.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4-Chlorophenyl phenyl ether	40 ug/l	85.2	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Chrysene	40 ug/l	94.2	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Di-n-butyl phthalate	40 ug/l	92.0	55.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Di-n-octyl phthalate	40 ug/l	104	35.0-135			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Dibenz(a,h)anthracene	40 ug/l	105	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,2-Dichlorobenzene	40 ug/l	76.8	35.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,3-Dichlorobenzene	40 ug/l	76.5	30.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,4-Dichlorobenzene	40 ug/l	79.0	30.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
3,3'-Dichlorobenzidine	40 ug/l	77.0	20.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dichlorophenol	40 ug/l	80.5	50.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Diethyl phthalate	40 ug/l	86.5	40.0-120			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Dimethyl phthalate	40 ug/l	88.0	25.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dimethylphenol	40 ug/l	69.2	30.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4,6-Dinitro-o-cresol	40 ug/l	99.8	40.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dinitrophenol	40 ug/l	56.2	15.0-140			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dinitrotoluene	40 ug/l	84.2	50.0-120			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,6-Dinitrotoluene	40 ug/l	87.2	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,2-Diphenylhydrazine	40 ug/l	93.5	55.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Fluorene	40 ug/l	87.8	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachlorobenzene	40 ug/l	93.5	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachlorobutadiene	40 ug/l	74.0	25.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachlorocyclopentadiene	40 ug/l	79.2	35.0-102			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachloroethane	40 ug/l	77.5	30.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Indeno(1,2,3-cd)pyrene	40 ug/l	105	45.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Isophorone	40 ug/l	79.0	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
n-Nitrosodi-n-propylamine	40 ug/l	85.5	35.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
n-Nitrosodimethylamine	40 ug/l	65.5	25.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
n-Nitrosodiphenylamine	40 ug/l	93.2	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Naphthalene	40 ug/l	82.5	40.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Nitrobenzene	40 ug/l	80.5	45.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Nitrophenol	40 ug/l	78.2	40.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4-Nitrophenol	40 ug/l	59.2	0.00-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
p-Chloro-m-cresol	40 ug/l	80.5	45.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Pentachlorophenol	40 ug/l	81.5	40.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Phenanthrene	40 ug/l	93.0	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Phenol	40 ug/l	49.2	0.00-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Pyrene	40 ug/l	102	50.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,2,4-Trichlorobenzene	40 ug/l	78.5	35.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4,6-Trichlorophenol	40 ug/l	85.2	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	89.0	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Fluorophenol	40 ug/l	65.8	20.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Nitrobenzene-D5	40 ug/l	84.0	40.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Terphenyl-D14	40 ug/l	105	50.0-135			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4,6-Tribromophenol	40 ug/l	98.5	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Volatile Organic Compounds										
Acrolein	100 ug/l	80.8	33.0-154			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Acrylonitrile	100 ug/l	102	64.4-133			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Benzene	20 ug/l	102	80.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Bromodichloromethane	20 ug/l	101	75.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Bromoform	20 ug/l	99.0	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Bromomethane	20 ug/l	97.4	30.0-145			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Carbon tetrachloride	20 ug/l	105	65.0-140			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chlorobenzene	20 ug/l	104	80.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chloroethane	20 ug/l	112	60.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
2-Chloroethyl vinyl ether	40 ug/l	113	69.9-126			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chloroform	20 ug/l	102	65.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chloromethane	20 ug/l	93.5	40.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Dibromochloromethane	20 ug/l	104	60.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,2-Dichlorobenzene	20 ug/l	100	70.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,3-Dichlorobenzene	20 ug/l	103	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,4-Dichlorobenzene	20 ug/l	102	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1-Dichloroethane	20 ug/l	106	70.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,2-Dichloroethane	20 ug/l	102	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1-Dichloroethene	20 ug/l	111	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
trans-1,2-Dichloroethene	20 ug/l	106	60.0-140			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,2-Dichloropropane	20 ug/l	102	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,3-Dichloropropylene	20 ug/l	99.3	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Ethylbenzene	20 ug/l	100	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Methylene chloride	20 ug/l	103	55.0-140			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1,2,2-Tetrachloroethane	20 ug/l	103	65.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Tetrachloroethene	20 ug/l	110	45.0-150			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Toluene	20 ug/l	101	75.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1,1-Trichloroethane	20 ug/l	103	65.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1,2-Trichloroethane	20 ug/l	98.9	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Trichloroethene	20 ug/l	102	70.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Vinyl chloride	20 ug/l	110	50.0-145			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	97.8	75.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Dibromofluoromethane	50 ug/l	102	85.0-115			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Toluene-D8	50 ug/l	103	85.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Organochlorine Pesticides and PCBs										
Aldrin	10 ug/l	86.9	25.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
alpha-BHC	10 ug/l	82.0	60.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
alpha-Endosulfan	10 ug/l	105	50.0-110			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
beta-BHC	10 ug/l	91.1	65.0-125			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
beta-Endosulfan	10 ug/l	119	30.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Chlorpyrifos	10 ug/l	110	55.4-122			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
4,4'-DDD	10 ug/l	73.5	25.0-150			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
4,4'-DDE	10 ug/l	98.3	35.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
4,4'-DDT	10 ug/l	126	45.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
delta-BHC	10 ug/l	108	45.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Dieldrin	10 ug/l	114	60.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Endosulfan sulfate	10 ug/l	118	55.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Endrin	10 ug/l	117	55.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Endrin aldehyde	10 ug/l	74.6	55.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
gamma-BHC	10 ug/l	92.8	25.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Heptachlor	10 ug/l	78.8	40.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Heptachlor epoxide	10 ug/l	102	60.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Organochlorine Pesticides and PCBs Surrogates:										
Decachlorobiphenyl	20 ug/l	67.3	30.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Tetrachloro-m-xylene	20 ug/l	87.6	25.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Base/Neutral and Acid Compounds										
3 & 4-Methylphenol	2670 ug/Kg	93.0	40.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Acenaphthene	2670 ug/Kg	88.0	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Acenaphthylene	2670 ug/Kg	86.2	45.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Anthracene	2670 ug/Kg	92.8	55.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Benzo(a)anthracene	2670 ug/Kg	91.5	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Benzo(a)pyrene	2670 ug/Kg	94.5	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Benzo(b)fluoranthene	2670 ug/Kg	95.5	45.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
Benzo(g,h,i)perylene	2670 ug/Kg	110	40.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Benzo(k)fluoranthene	2670 ug/Kg	95.8	45.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Benzoic acid	6670 ug/Kg	15.7	0.00-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Benzyl alcohol	2670 ug/Kg	85.8	20.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
bis(2-Chloroethoxy)Methane	2670 ug/Kg	88.8	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
bis(2-Chloroethyl)Ether	2670 ug/Kg	88.8	40.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
bis(2-Chloroisopropyl)Ether	2670 ug/Kg	93.0	20.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
bis(2-Ethylhexyl)Phthalate	2670 ug/Kg	105	45.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4-Bromophenyl phenyl ether	2670 ug/Kg	89.8	45.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Butyl benzyl phthalate	2670 ug/Kg	108	50.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4-Chloro-3-methylphenol	2670 ug/Kg	84.5	45.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4-Chloroaniline	2670 ug/Kg	41.0	10.0-100			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2-Chloronaphthalene	2670 ug/Kg	86.0	45.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2-Chlorophenol	2670 ug/Kg	86.5	45.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4-Chlorophenyl phenyl ether	2670 ug/Kg	86.2	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Chrysene	2670 ug/Kg	90.5	55.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Di-n-butyl phthalate	2670 ug/Kg	95.2	55.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Di-n-octyl phthalate	2670 ug/Kg	107	40.0-130			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Dibenz(a,h)anthracene	2670 ug/Kg	113	40.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Dibenzofuran	2670 ug/Kg	86.8	50.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
1,2-Dichlorobenzene	2670 ug/Kg	81.8	45.0-100			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
1,3-Dichlorobenzene	2670 ug/Kg	82.0	40.0-100			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
1,4-Dichlorobenzene	2670 ug/Kg	83.8	35.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
3,3'-Dichlorobenzidine	2670 ug/Kg	87.8	10.0-130			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4-Dichlorophenol	2670 ug/Kg	84.5	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Diethyl phthalate	2670 ug/Kg	89.0	50.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Dimethyl phthalate	2670 ug/Kg	89.0	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4-Dimethylphenol	2670 ug/Kg	82.2	30.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4,6-Dinitro-2-methylphenol	2670 ug/Kg	67.5	30.0-135			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4-Dinitrophenol	2670 ug/Kg	33.0	15.0-130			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4-Dinitrotoluene	2670 ug/Kg	86.5	50.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,6-Dinitrotoluene	2670 ug/Kg	87.8	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Fluoranthene	2670 ug/Kg	82.8	55.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Fluorene	2670 ug/Kg	87.8	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Hexachlorobenzene	2670 ug/Kg	86.8	45.0-120			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Hexachlorobutadiene	2670 ug/Kg	81.2	40.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Hexachlorocyclopentadiene	2670 ug/Kg	81.5	23.6-112			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Hexachloroethane	2670 ug/Kg	89.0	35.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Indeno(1,2,3-cd)pyrene	2670 ug/Kg	111	40.0-120			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Isophorone	2670 ug/Kg	87.5	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
2-Methylnaphthalene	2670 ug/Kg	82.5	45.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2-Methylphenol	2670 ug/Kg	87.0	40.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
N-Nitroso-di-n-propylamine	2670 ug/Kg	95.0	40.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
n-Nitrosodiphenylamine	2670 ug/Kg	93.5	50.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Naphthalene	2670 ug/Kg	86.0	40.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2-Nitroaniline	2670 ug/Kg	92.0	45.0-120			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
3-Nitroaniline	2670 ug/Kg	57.0	25.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4-Nitroaniline	2670 ug/Kg	81.2	35.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Nitrobenzene	2670 ug/Kg	88.5	40.0-115			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2-Nitrophenol	2670 ug/Kg	82.2	40.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
4-Nitrophenol	2670 ug/Kg	88.2	15.0-140			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Pentachlorophenol	2670 ug/Kg	60.0	25.0-120			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Phenanthrene	2670 ug/Kg	93.0	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Phenol	2670 ug/Kg	88.5	40.0-100			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Pyrene	2670 ug/Kg	107	45.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
1,2,4-Trichlorobenzene	2670 ug/Kg	82.5	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4,5-Trichlorophenol	2670 ug/Kg	82.5	50.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4,6-Trichlorophenol	2670 ug/Kg	82.8	45.0-110			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	2670 ug/Kg	88.2	45.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2-Fluorophenol	2670 ug/Kg	88.8	35.0-105			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Nitrobenzene-D5	2670 ug/Kg	90.0	35.0-100			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Terphenyl-D14	2670 ug/Kg	106	30.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
2,4,6-Tribromophenol	2670 ug/Kg	78.5	35.0-125			B8900	09Apr14 1413 by 306	09Apr14 1757 by 301		
Volatile Organic Compounds										
Acetone	40.0 ug/Kg	139	20.0-160			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Benzene	20.0 ug/Kg	99.0	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Bromobenzene	20.0 ug/Kg	99.7	65.0-120			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Bromochloromethane	20.0 ug/Kg	95.6	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Bromodichloromethane	20.0 ug/Kg	96.4	70.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Bromoform	20.0 ug/Kg	90.6	55.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Bromomethane	20.0 ug/Kg	103	30.0-160			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
2-Butanone	40.0 ug/Kg	86.0	30.0-160			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Carbon disulfide	40.0 ug/Kg	104	45.0-160			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Carbon tetrachloride	20.0 ug/Kg	102	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Chlorobenzene	20.0 ug/Kg	95.0	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Chloroethane	20.0 ug/Kg	107	40.0-155			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
2-Chloroethyl vinyl ether	40.0 ug/Kg	93.7	65.9-126			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Chloroform	20.0 ug/Kg	98.4	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Chloromethane	20.0 ug/Kg	98.1	50.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
2-Chlorotoluene	20.0 ug/Kg	95.4	70.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
4-Chlorotoluene	20.0 ug/Kg	97.4	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2-Dibromo-3-chloropropane	20.0 ug/Kg	94.3	40.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Dibromochloromethane	20.0 ug/Kg	89.6	65.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2-Dibromoethane	20.0 ug/Kg	89.2	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Dibromomethane	20.0 ug/Kg	96.0	75.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2-Dichlorobenzene	20.0 ug/Kg	101	75.0-120			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,3-Dichlorobenzene	20.0 ug/Kg	101	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,4-Dichlorobenzene	20.0 ug/Kg	100	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Dichlorodifluoromethane	20.0 ug/Kg	103	35.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1-Dichloroethane	20.0 ug/Kg	100	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2-Dichloroethane	20.0 ug/Kg	96.6	70.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1-Dichloroethene	20.0 ug/Kg	104	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
cis-1,2-Dichloroethene	20.0 ug/Kg	100	65.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
trans-1,2-Dichloroethene	20.0 ug/Kg	102	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2-Dichloropropane	20.0 ug/Kg	97.4	70.0-120			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,3-Dichloropropane	20.0 ug/Kg	92.0	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
2,2-Dichloropropane	20.0 ug/Kg	103	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1-Dichloropropene	20.0 ug/Kg	107	70.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
cis-1,3-Dichloropropene	20.0 ug/Kg	97.6	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
trans-1,3-Dichloropropene	20.0 ug/Kg	95.1	65.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Ethylbenzene	20.0 ug/Kg	95.0	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Hexachlorobutadiene	20.0 ug/Kg	106	55.0-140			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
2-Hexanone	40.0 ug/Kg	81.9	45.0-145			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Isopropylbenzene	20.0 ug/Kg	97.2	75.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
m&p-Xylenes	40.0 ug/Kg	97.0	80.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
4-Methyl-2-pentanone	40.0 ug/Kg	91.9	45.0-145			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Methylene chloride	20.0 ug/Kg	103	55.0-140			V8492	10Apr14 1046 by 301	15Apr14 1516 by 301		
n-Butylbenzene	20.0 ug/Kg	101	65.0-140			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
n-Propylbenzene	20.0 ug/Kg	102	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Naphthalene	20.0 ug/Kg	96.2	40.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
o-Xylene	20.0 ug/Kg	95.8	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
p-Isopropyltoluene	20.0 ug/Kg	104	75.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
sec-Butylbenzene	20.0 ug/Kg	104	65.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Styrene	20.0 ug/Kg	101	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
tert-Butylbenzene	20.0 ug/Kg	103	65.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1,1,2-Tetrachloroethane	20.0 ug/Kg	92.8	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1,2,2-Tetrachloroethane	20.0 ug/Kg	95.4	55.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Tetrachloroethene	20.0 ug/Kg	98.3	65.0-140			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	DII	Qual
Volatile Organic Compounds (Continued)										
Toluene	20.0 ug/Kg	97.6	70.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2,3-Trichlorobenzene	20.0 ug/Kg	101	60.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2,4-Trichlorobenzene	20.0 ug/Kg	102	65.0-130			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1,1-Trichloroethane	20.0 ug/Kg	101	70.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,1,2-Trichloroethane	20.0 ug/Kg	95.0	60.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Trichloroethene	20.0 ug/Kg	99.3	75.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Trichlorofluoromethane	20.0 ug/Kg	105	25.0-185			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,2,3-Trichloropropane	20.0 ug/Kg	99.2	65.0-130			V8492	10Apr14 1046 by 301	15Apr14 1516 by 301		
1,2,4-Trimethylbenzene	20.0 ug/Kg	101	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
1,3,5-Trimethylbenzene	20.0 ug/Kg	101	65.0-135			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Vinyl acetate	40.0 ug/Kg	96.2	49.8-129			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Vinyl chloride	20.0 ug/Kg	98.1	60.0-125			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50.0 ug/Kg	95.0	85.0-120			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Dibromofluoromethane	50.0 ug/Kg	99.8	80.0-120			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Toluene-D8	50.0 ug/Kg	97.2	85.0-115			V8492	10Apr14 1046 by 301	15Apr14 1658 by 301		
Organochlorine Pesticides										
Aldrin	4.44 ug/Kg	73.9	45.0-140			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
alpha-BHC	4.44 ug/Kg	75.4	60.0-125			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
alpha-Endosulfan	4.44 ug/Kg	86.8	15.0-135			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
beta-BHC	4.44 ug/Kg	93.1	60.0-125			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
beta-Endosulfan	4.44 ug/Kg	88.7	35.0-140			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
4,4'-DDD	4.44 ug/Kg	72.5	30.0-135			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
4,4'-DDE	4.44 ug/Kg	84.5	70.0-125			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
4,4'-DDT	4.44 ug/Kg	121	45.0-140			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
delta-BHC	4.44 ug/Kg	96.0	55.0-130			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Dieldrin	4.44 ug/Kg	95.8	65.0-125			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Endosulfan sulfate	4.44 ug/Kg	81.2	60.0-135			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Endrin	4.44 ug/Kg	84.8	60.0-135			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Endrin aldehyde	4.44 ug/Kg	109	35.0-145			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
gamma-BHC	4.44 ug/Kg	74.3	60.0-125			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Heptachlor	4.44 ug/Kg	78.9	50.0-140			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Heptachlor epoxide	4.44 ug/Kg	115	65.0-130			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Methoxychlor	4.44 ug/Kg	84.1	55.0-145			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Organochlorine Pesticides Surrogates:										
Decachlorobiphenyl	13.3 ug/Kg	68.8	55.0-130			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		
Tetrachloro-m-xylene	13.3 ug/Kg	77.6	70.0-125			G9661	09Apr14 1500 by 306	10Apr14 2013 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	177260-1	0.1 mg/l	91.5	80.0-120	W47271	09Apr14 0739 by 308	09Apr14 1040 by 308		
	177260-1	0.1 mg/l	94.9	80.0-120	W47271	09Apr14 0739 by 308	09Apr14 1040 by 308		
	Relative Percent Difference:		2.88	10.0	W47271				
Total Cyanide	177260-1	0.1 mg/l	101	75.0-125	W47273	09Apr14 0804 by 308	09Apr14 1132 by 308		
	177260-1	0.1 mg/l	93.0	75.0-125	W47273	09Apr14 0804 by 308	09Apr14 1134 by 308		
	Relative Percent Difference:		7.77	20.0	W47273				
Total Recoverable Antimony	177255-1	0.05 mg/l	123	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	124	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.903	20.0	S36576				
Total Recoverable Arsenic	177255-1	0.05 mg/l	104	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	104	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.202	20.0	S36576				
Total Recoverable Beryllium	177255-1	0.05 mg/l	100	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	99.2	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.20	20.0	S36576				
Total Recoverable Cadmium	177255-1	0.05 mg/l	96.2	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	95.9	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.257	20.0	S36576				
Total Recoverable Chromium	177255-1	0.05 mg/l	100	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	99.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.790	20.0	S36576				
Total Recoverable Copper	177255-1	0.05 mg/l	94.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	93.1	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.10	20.0	S36576				
Total Recoverable Lead	177255-1	0.05 mg/l	97.6	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	97.6	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.0286	20.0	S36576				
Total Recoverable Molybdenum	177255-1	0.05 mg/l	101	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	101	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.864	20.0	S36576				
Total Recoverable Nickel	177255-1	0.05 mg/l	97.9	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	96.8	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.16	20.0	S36576				
Total Recoverable Selenium	177255-1	0.05 mg/l	97.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	97.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.00146	20.0	S36576				
Total Recoverable Silver	177255-1	0.02 mg/l	95.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.02 mg/l	95.2	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.130	20.0	S36576				
Total Recoverable Thallium	177255-1	0.05 mg/l	95.9	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	94.7	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.30	20.0	S36576				
Total Recoverable Zinc	177255-1	0.05 mg/l	95.8	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	94.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.29	20.0	S36576				
Total Cyanide	177262-2	0.948 mg/Kg	89.4	75.0-125	W47300	11Apr14 0828 by 308	14Apr14 1454 by 308		
	177262-2	0.992 mg/Kg	88.0	75.0-125	W47300	11Apr14 0828 by 308	14Apr14 1455 by 308		
	Relative Percent Difference:		2.09	20.0	W47300				
Total Recoverable Phenolics	177262-2	9.78 mg/Kg	90.9	80.0-120	W47299	11Apr14 0828 by 308	11Apr14 1415 by 308		
	177262-2	9.95 mg/Kg	93.0	80.0-120	W47299	11Apr14 0828 by 308	11Apr14 1415 by 308		
	Relative Percent Difference:		1.48	10.0	W47299				

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	177278-1	492 mg/Kg	88.1	75.0-125	S36588	09Apr14 1053 by 285	10Apr14 0848 by 305		
	177278-1	497 mg/Kg	87.7	75.0-125	S36588	09Apr14 1053 by 285	10Apr14 0852 by 305		
	Relative Percent Difference:		0.682	20.0	S36588				
Arsenic	177278-1	492 mg/Kg	88.2	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	497 mg/Kg	89.4	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		1.20	20.0	S36588				
Beryllium	177278-1	49.2 mg/Kg	89.7	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	49.7 mg/Kg	89.5	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		0.386	20.0	S36588				
Cadmium	177278-1	492 mg/Kg	84.6	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	497 mg/Kg	84.1	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		0.810	20.0	S36588				
Chromium	177278-1	49.2 mg/Kg	85.0	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	49.7 mg/Kg	87.6	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		1.86	20.0	S36588				
Copper	177278-1	49.2 mg/Kg	90.5	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	49.7 mg/Kg	91.1	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		0.326	20.0	S36588				
Lead	177278-1	492 mg/Kg	94.1	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	497 mg/Kg	95.6	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		1.49	20.0	S36588				
Molybdenum	177278-1	49.2 mg/Kg	87.4	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	49.7 mg/Kg	89.1	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		1.77	20.0	S36588				
Nickel	177278-1	49.2 mg/Kg	90.7	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	49.7 mg/Kg	93.7	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		1.97	20.0	S36588				
Selenium	177278-1	492 mg/Kg	82.1	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	497 mg/Kg	83.1	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		0.960	20.0	S36588				
Silver	177278-1	9.85 mg/Kg	92.0	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	9.94 mg/Kg	94.2	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		2.36	20.0	S36588				
Thallium	177278-1	492 mg/Kg	94.2	75.0-125	S36588	09Apr14 1053 by 285	10Apr14 1036 by 305		
	177278-1	497 mg/Kg	93.6	75.0-125	S36588	09Apr14 1053 by 285	10Apr14 1039 by 305		
	Relative Percent Difference:		0.639	20.0	S36588				
Zinc	177278-1	49.2 mg/Kg	83.9	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1708 by 305		
	177278-1	49.7 mg/Kg	87.7	75.0-125	S36588	09Apr14 1053 by 285	09Apr14 1712 by 305		
	Relative Percent Difference:		1.54	20.0	S36588				
Mercury	177278-1	2.30 mg/Kg	89.1	70.0-130	S36586	09Apr14 0945 by 311	09Apr14 1227 by 311		
	177278-1	2.39 mg/Kg	88.4	70.0-130	S36586	09Apr14 0945 by 311	09Apr14 1231 by 311		
	Relative Percent Difference:		1.29	20.0	S36586				
Base/Neutral and Acid Compounds									
Acenaphthene	177160-1	40 ug/l	86.8	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.5	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.47	30.0	B8896				
Acenaphthylene	177160-1	40 ug/l	85.2	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.0	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.88	30.0	B8896				

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Anthracene	177160-1	40 ug/l	91.0	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	84.8	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.11	30.0	B8896				
Benzidine	177160-1	100 ug/l	11.7	0.00-96.2	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	100 ug/l	12.1	0.00-96.2	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		3.36	172	B8896				
Benzo(a)anthracene	177160-1	40 ug/l	91.5	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	85.5	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.78	30.0	B8896				
Benzo(a)pyrene	177160-1	40 ug/l	97.8	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	91.0	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.15	30.0	B8896				
Benzo(g,h,i)perylene	177160-1	40 ug/l	114	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	101	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		11.6	30.0	B8896				
Benzo(k)fluoranthene	177160-1	40 ug/l	98.2	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	94.0	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.42	30.0	B8896				
3,4-Benzofluoranthene	177160-1	40 ug/l	101	45.0-120	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	91.0	45.0-120	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.4	30.0	B8896				
Bis(2-chloroethoxy)methane	177160-1	40 ug/l	88.0	45.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	82.2	45.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.75	30.0	B8896				
Bis(2-chloroethyl)ether	177160-1	40 ug/l	89.5	35.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	83.2	35.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.24	30.0	B8896				
Bis(2-chloroisopropyl)ether	177160-1	40 ug/l	96.2	25.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	90.8	25.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		5.88	30.0	B8896				
Bis(2-ethylhexyl)phthalate	177160-1	40 ug/l	102	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	92.5	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.0	30.0	B8896				
4-Bromophenyl phenyl ether	177160-1	40 ug/l	87.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		9.58	30.0	B8896				
Butylbenzyl phthalate	177160-1	40 ug/l	108	45.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	96.2	45.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		11.0	30.0	B8896				
2-Chloronaphthalene	177160-1	40 ug/l	86.2	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.4	30.0	B8896				
2-Chlorophenol	177160-1	40 ug/l	83.2	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.83	30.0	B8896				
4-Chlorophenyl phenyl ether	177160-1	40 ug/l	83.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.53	30.0	B8896				
Chrysene	177160-1	40 ug/l	91.5	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	84.8	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.66	30.0	B8896				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Di-n-butyl phthalate	177160-1	40 ug/l	94.0	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	88.5	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.03	30.0	B8896				
Di-n-octyl phthalate	177160-1	40 ug/l	112	35.0-135	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	104	35.0-135	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.42	30.0	B8896				
Dibenz(a,h)anthracene	177160-1	40 ug/l	112	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	98.5	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		12.4	30.0	B8896				
1,2-Dichlorobenzene	177160-1	40 ug/l	81.2	35.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	74.2	35.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		9.00	30.0	B8896				
1,3-Dichlorobenzene	177160-1	40 ug/l	80.2	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	73.8	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.44	30.0	B8896				
1,4-Dichlorobenzene	177160-1	40 ug/l	81.5	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	75.8	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.31	30.0	B8896				
3,3'-Dichlorobenzidine	177160-1	40 ug/l	58.5	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	72.8	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		21.7	30.0	B8896				
2,4-Dichlorophenol	177160-1	40 ug/l	82.8	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	76.0	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.50	30.0	B8896				
Diethyl phthalate	177160-1	40 ug/l	85.0	40.0-120	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	81.5	40.0-120	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.20	30.0	B8896				
Dimethyl phthalate	177160-1	40 ug/l	85.8	25.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	81.2	25.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		5.39	30.0	B8896				
2,4-Dimethylphenol	177160-1	40 ug/l	75.0	30.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	66.2	30.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		12.4	30.0	B8896				
4,6-Dinitro-o-cresol	177160-1	40 ug/l	92.8	40.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	85.0	40.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.72	30.0	B8896				
2,4-Dinitrophenol	177160-1	40 ug/l	68.5	15.0-140	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	63.5	15.0-140	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.58	30.0	B8896				
2,4-Dinitrotoluene	177160-1	40 ug/l	84.0	50.0-120	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.0	50.0-120	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.88	30.0	B8896				
2,6-Dinitrotoluene	177160-1	40 ug/l	85.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.02	30.0	B8896				
1,2-Diphenylhydrazine	177160-1	40 ug/l	102	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	91.2	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		11.6	30.0	B8896				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Fluorene	177160-1	40 ug/l	86.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.2	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.92	30.0	B8896				
Hexachlorobenzene	177160-1	40 ug/l	85.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.8	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.22	30.0	B8896				
Hexachlorobutadiene	177160-1	40 ug/l	74.2	25.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	68.5	25.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.06	30.0	B8896				
Hexachlorocyclopentadiene	177160-1	40 ug/l	76.8	6.60-121	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	68.0	6.60-121	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		12.1	41.4	B8896				
Hexachloroethane	177160-1	40 ug/l	83.2	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.5	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.61	30.0	B8896				
Indeno(1,2,3-cd)pyrene	177160-1	40 ug/l	111	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	99.5	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.7	30.0	B8896				
Isophorone	177160-1	40 ug/l	86.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.85	30.0	B8896				
n-Nitrosodi-n-propylamine	177160-1	40 ug/l	95.5	35.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	89.5	35.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.49	30.0	B8896				
n-Nitrosodimethylamine	177160-1	40 ug/l	82.5	25.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	76.8	25.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.22	30.0	B8896				
n-Nitrosodiphenylamine	177160-1	40 ug/l	94.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	85.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.0	30.0	B8896				
Naphthalene	177160-1	40 ug/l	85.2	40.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.5	40.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.24	30.0	B8896				
Nitrobenzene	177160-1	40 ug/l	88.2	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.8	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.88	30.0	B8896				
2-Nitrophenol	177160-1	40 ug/l	85.5	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.2	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.1	30.0	B8896				
4-Nitrophenol	177160-1	40 ug/l	62.5	0.00-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	60.2	0.00-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		3.67	30.0	B8896				
p-Chloro-m-cresol	177160-1	40 ug/l	82.5	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.0	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.33	30.0	B8896				
Pentachlorophenol	177160-1	40 ug/l	85.5	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.5	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.54	30.0	B8896				
Phenanthrene	177160-1	40 ug/l	93.8	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	86.8	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.76	30.0	B8896				

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Phenol	177160-1	40 ug/l	54.0	0.00-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	50.5	0.00-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.70	30.0	B8896				
Pyrene	177160-1	40 ug/l	108	50.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	94.5	50.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		13.1	30.0	B8896				
1,2,4-Trichlorobenzene	177160-1	40 ug/l	79.0	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	73.5	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.21	30.0	B8896				
2,4,6-Trichlorophenol	177160-1	40 ug/l	84.2	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.02	30.0	B8896				
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	177160-1	40 ug/l	87.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	79.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
2-Fluorophenol	177160-1	40 ug/l	69.5	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	64.5	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
Nitrobenzene-D5	177160-1	40 ug/l	89.2	40.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	83.0	40.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
Terphenyl-D14	177160-1	40 ug/l	103	50.0-135	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	91.8	50.0-135	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
2,4,6-Tribromophenol	177160-1	40 ug/l	83.2	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	76.0	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
Volatile Organic Compounds									
Acrolein	177253-1	100 ug/l	84.0	35.9-146	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Acrylonitrile	177253-1	100 ug/l	101	44.6-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Benzene	177253-1	20 ug/l	105	80.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Bromodichloromethane	177253-1	20 ug/l	103	75.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Bromoform	177253-1	20 ug/l	99.6	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Bromomethane	177253-1	20 ug/l	110	30.0-145	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Carbon tetrachloride	177253-1	20 ug/l	109	65.0-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chlorobenzene	177253-1	20 ug/l	107	80.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chloroethane	177253-1	20 ug/l	120	60.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
2-Chloroethyl vinyl ether	177253-1	40 ug/l	60.8	58.2-122	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chloroform	177253-1	20 ug/l	110	65.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chloromethane	177253-1	20 ug/l	106	40.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Dibromochloromethane	177253-1	20 ug/l	104	60.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,2-Dichlorobenzene	177253-1	20 ug/l	106	70.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,3-Dichlorobenzene	177253-1	20 ug/l	109	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,4-Dichlorobenzene	177253-1	20 ug/l	108	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1-Dichloroethane	177253-1	20 ug/l	111	70.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,2-Dichloroethane	177253-1	20 ug/l	104	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1-Dichloroethene	177253-1	20 ug/l	118	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
trans-1,2-Dichloroethene	177253-1	20 ug/l	115	60.0-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,2-Dichloropropane	177253-1	20 ug/l	103	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,3-Dichloropropylene	177253-1	20 ug/l	102	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Ethylbenzene	177253-1	20 ug/l	104	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Methylene chloride	177253-1	20 ug/l	106	55.0-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1,2,2-Tetrachloroethane	177253-1	20 ug/l	104	65.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Tetrachloroethene	177253-1	20 ug/l	113	45.0-150	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Toluene	177253-1	20 ug/l	104	75.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1,1-Trichloroethane	177253-1	20 ug/l	111	65.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1,2-Trichloroethane	177253-1	20 ug/l	103	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Trichloroethene	177253-1	20 ug/l	106	70.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Vinyl chloride	177253-1	20 ug/l	118	50.0-145	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	177253-1	50 ug/l	99.2	75.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Dibromofluoromethane	177253-1	50 ug/l	105	85.0-115	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Toluene-D8	177253-1	50 ug/l	101	85.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Organochlorine Pesticides and PCBs									
Aldrin	177253-1	10 ug/l	66.0	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	60.7	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		8.37	30.0	G9659				
alpha-BHC	177253-1	10 ug/l	67.8	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	63.8	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.08	30.0	G9659				
alpha-Endosulfan	177253-1	10 ug/l	82.2	50.0-110	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	78.5	50.0-110	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		4.60	30.0	G9659				
beta-BHC	177253-1	10 ug/l	65.1	65.0-125	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	65.3	65.0-125	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		0.307	30.0	G9659				
beta-Endosulfan	177253-1	10 ug/l	100	30.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	85.5	30.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		15.7	30.0	G9659				
Chlorpyrifos	177253-1	10 ug/l	93.5	47.9-138	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	78.0	47.9-138	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		18.1	25.6	G9659				
4,4'-DDD	177253-1	10 ug/l	97.8	25.0-150	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	88.0	25.0-150	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		10.5	30.0	G9659				
4,4'-DDE	177253-1	10 ug/l	66.5	35.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	62.5	35.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.20	30.0	G9659				
4,4'-DDT	177253-1	10 ug/l	109	45.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	107	45.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		2.22	30.0	G9659				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
delta-BHC	177253-1	10 ug/l	68.4	45.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	64.2	45.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.33	30.0	G9659				
Dieldrin	177253-1	10 ug/l	94.9	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	88.6	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.87	30.0	G9659				
Endosulfan sulfate	177253-1	10 ug/l	81.6	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	79.5	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		2.61	30.0	G9659				
Endrin	177253-1	10 ug/l	85.9	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	79.5	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		7.74	30.0	G9659				
Endrin aldehyde	177253-1	10 ug/l	96.8	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	89.9	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		7.39	30.0	G9659				
gamma-BHC	177253-1	10 ug/l	66.8	25.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	63.2	25.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		5.54	30.0	G9659				
Heptachlor	177253-1	10 ug/l	59.9	40.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	58.7	40.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		2.02	30.0	G9659				
Heptachlor epoxide	177253-1	10 ug/l	65.1	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	62.0	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		4.88	30.0	G9659				
Organochlorine Pesticides and PCBs Surrogates:									
Decachlorobiphenyl	177253-1	20 ug/l	88.0	30.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306		
	177253-1	20 ug/l	76.2	30.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306		
Tetrachloro-m-xylene	177253-1	20 ug/l	89.6	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306		
	177253-1	20 ug/l	78.8	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306		
Base/Neutral and Acid Compounds									
3 & 4-Methylphenol	177262-2	2670 ug/Kg	-	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		X
	177262-2	2670 ug/Kg	-	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		X
	Relative Percent Difference:		-	-	B8900				
Acenaphthene	177262-2	2670 ug/Kg	79.8	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	77.2	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.18	30.0	B8900				
Acenaphthylene	177262-2	2670 ug/Kg	79.2	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	75.8	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.52	30.0	B8900				
Anthracene	177262-2	2670 ug/Kg	81.2	55.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	78.2	55.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.76	30.0	B8900				
Benzo(a)anthracene	177262-2	2670 ug/Kg	85.0	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	80.8	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.13	30.0	B8900				
Benzo(a)pyrene	177262-2	2670 ug/Kg	84.8	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	82.8	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		2.39	30.0	B8900				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Benzo(b)fluoranthene	177262-2	2670 ug/Kg	84.0	45.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	83.8	45.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		0.298	30.0	B8900				
Benzo(g,h,i)perylene	177262-2	2670 ug/Kg	96.5	40.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	79.2	40.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		19.6	30.0	B8900				
Benzo(k)fluoranthene	177262-2	2670 ug/Kg	81.5	45.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	82.2	45.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		0.916	30.0	B8900				
Benzoic acid	177262-2	6670 ug/Kg	37.8	0.00-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	6670 ug/Kg	28.3	0.00-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		28.7	30.0	B8900				
Benzyl alcohol	177262-2	2670 ug/Kg	100	20.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	97.2	20.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.29	30.0	B8900				
bis(2-Chloroethoxy)Methane	177262-2	2670 ug/Kg	81.8	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	78.0	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.69	30.0	B8900				
bis(2-Chloroethyl)Ether	177262-2	2670 ug/Kg	85.2	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	90.5	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.97	30.0	B8900				
bis(2-Chloroisopropyl)Ether	177262-2	2670 ug/Kg	97.2	20.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	94.5	20.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		2.87	30.0	B8900				
bis(2-Ethylhexyl)Phthalate	177262-2	2670 ug/Kg	98.4	45.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	96.1	45.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		1.75	30.0	B8900				
4-Bromophenyl phenyl ether	177262-2	2670 ug/Kg	83.8	45.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	78.2	45.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		6.79	30.0	B8900				
Butyl benzyl phthalate	177262-2	2670 ug/Kg	91.2	50.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	95.2	50.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.29	30.0	B8900				
4-Chloro-3-methylphenol	177262-2	2670 ug/Kg	72.2	45.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	71.5	45.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		1.04	30.0	B8900				
4-Chloroaniline	177262-2	2670 ug/Kg	17.5	10.0-100	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	17.5	10.0-100	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		0.00	30.0	B8900				
2-Chloronaphthalene	177262-2	2670 ug/Kg	79.8	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	75.5	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.48	30.0	B8900				
2-Chlorophenol	177262-2	2670 ug/Kg	83.8	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	80.2	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.27	30.0	B8900				
4-Chlorophenyl phenyl ether	177262-2	2670 ug/Kg	74.2	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	72.8	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		2.04	30.0	B8900				
Chrysene	177262-2	2670 ug/Kg	81.5	55.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	77.0	55.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.68	30.0	B8900				

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Di-n-butyl phthalate	177262-2	2670 ug/Kg	71.2	55.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	71.2	55.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		0.00	30.0	B8900				
Di-n-octyl phthalate	177262-2	2670 ug/Kg	88.0	40.0-130	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	97.2	40.0-130	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		9.99	30.0	B8900				
Dibenz(a,h)anthracene	177262-2	2670 ug/Kg	99.5	40.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	78.5	40.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		23.6	30.0	B8900				
Dibenzofuran	177262-2	2670 ug/Kg	76.8	50.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	74.5	50.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		2.98	30.0	B8900				
1,2-Dichlorobenzene	177262-2	2670 ug/Kg	82.5	45.0-100	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	77.5	45.0-100	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		6.25	30.0	B8900				
1,3-Dichlorobenzene	177262-2	2670 ug/Kg	73.2	40.0-100	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	69.0	40.0-100	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.98	30.0	B8900				
1,4-Dichlorobenzene	177262-2	2670 ug/Kg	77.2	35.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	73.2	35.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.32	30.0	B8900				
3,3'-Dichlorobenzidine	177262-2	2670 ug/Kg	22.2	10.0-130	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	21.5	10.0-130	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.43	30.0	B8900				
2,4-Dichlorophenol	177262-2	2670 ug/Kg	75.8	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	73.2	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.36	30.0	B8900				
Diethyl phthalate	177262-2	2670 ug/Kg	75.0	50.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	74.2	50.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		1.01	30.0	B8900				
Dimethyl phthalate	177262-2	2670 ug/Kg	72.2	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	72.0	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		0.347	30.0	B8900				
2,4-Dimethylphenol	177262-2	2670 ug/Kg	76.0	30.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	73.8	30.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.01	30.0	B8900				
4,6-Dinitro-2-methylphenol	177262-2	2670 ug/Kg	73.0	30.0-135	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	55.8	30.0-135	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		26.8	30.0	B8900				
2,4-Dinitrophenol	177262-2	2670 ug/Kg	35.5	15.0-130	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	31.2	15.0-130	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		12.7	30.0	B8900				
2,4-Dinitrotoluene	177262-2	2670 ug/Kg	72.5	50.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	69.5	50.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.23	30.0	B8900				
2,6-Dinitrotoluene	177262-2	2670 ug/Kg	78.2	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	74.2	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.25	30.0	B8900				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Fluoranthene	177262-2	2670 ug/Kg	70.2	55.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	67.8	55.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		3.62	30.0	B8900				
Fluorene	177262-2	2670 ug/Kg	75.2	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	74.0	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		1.68	30.0	B8900				
Hexachlorobenzene	177262-2	2670 ug/Kg	82.2	45.0-120	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	76.8	45.0-120	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		6.92	30.0	B8900				
Hexachlorobutadiene	177262-2	2670 ug/Kg	72.8	40.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	67.0	40.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		8.23	30.0	B8900				
Hexachlorocyclopentadiene	177262-2	2670 ug/Kg	35.0	0.00-130	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	7.75	0.00-130	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		127	46.1	B8900				
Hexachloroethane	177262-2	2670 ug/Kg	48.5	35.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	42.2	35.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		13.8	30.0	B8900				
Indeno(1,2,3-cd)pyrene	177262-2	2670 ug/Kg	101	40.0-120	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	82.5	40.0-120	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		20.4	30.0	B8900				
Isophorone	177262-2	2670 ug/Kg	75.2	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	72.0	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.41	30.0	B8900				
2-Methylnaphthalene	177262-2	2670 ug/Kg	69.5	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	69.2	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		0.360	30.0	B8900				
2-Methylphenol	177262-2	2670 ug/Kg	86.5	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	82.5	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.73	30.0	B8900				
N-Nitroso-di-n-propylamine	177262-2	2670 ug/Kg	57.2	40.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	60.0	40.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.69	30.0	B8900				
n-Nitrosodiphenylamine	177262-2	2670 ug/Kg	93.0	50.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	86.5	50.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		7.24	30.0	B8900				
Naphthalene	177262-2	2670 ug/Kg	78.5	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	75.0	40.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.56	30.0	B8900				
2-Nitroaniline	177262-2	2670 ug/Kg	84.8	45.0-120	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	82.2	45.0-120	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		2.99	30.0	B8900				
3-Nitroaniline	177262-2	2670 ug/Kg	25.0	25.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	27.0	25.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		7.69	30.0	B8900				
4-Nitroaniline	177262-2	2670 ug/Kg	47.0	35.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	55.0	35.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		15.7	30.0	B8900				
Nitrobenzene	177262-2	2670 ug/Kg	82.0	40.0-115	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	77.5	40.0-115	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.64	30.0	B8900				

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
2-Nitrophenol	177262-2	2670 ug/Kg	78.0	40.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	73.5	40.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.94	30.0	B8900				
4-Nitrophenol	177262-2	2670 ug/Kg	78.2	15.0-140	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	81.8	15.0-140	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.38	30.0	B8900				
Pentachlorophenol	177262-2	2670 ug/Kg	81.2	25.0-120	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	75.5	25.0-120	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		7.34	30.0	B8900				
Phenanthrene	177262-2	2670 ug/Kg	84.5	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	80.8	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.54	30.0	B8900				
Phenol	177262-2	2670 ug/Kg	80.0	40.0-100	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	76.8	40.0-100	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		4.15	30.0	B8900				
Pyrene	177262-2	2670 ug/Kg	80.5	45.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	85.5	45.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		6.02	30.0	B8900				
1,2,4-Trichlorobenzene	177262-2	2670 ug/Kg	72.0	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	68.0	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.71	30.0	B8900				
2,4,5-Trichlorophenol	177262-2	2670 ug/Kg	77.5	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	73.0	50.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		5.98	30.0	B8900				
2,4,6-Trichlorophenol	177262-2	2670 ug/Kg	80.2	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	75.5	45.0-110	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
	Relative Percent Difference:		6.10	30.0	B8900				
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	177262-2	2670 ug/Kg	82.0	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	77.2	45.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
2-Fluorophenol	177262-2	2670 ug/Kg	67.0	35.0-105	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	81.5	35.0-105	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
Nitrobenzene-D5	177262-2	2670 ug/Kg	81.8	35.0-100	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	77.2	35.0-100	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
Terphenyl-D14	177262-2	2670 ug/Kg	79.8	30.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	85.2	30.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
2,4,6-Tribromophenol	177262-2	2670 ug/Kg	74.8	35.0-125	B8900	09Apr14 1413 by 306	09Apr14 1832 by 301		
	177262-2	2670 ug/Kg	72.2	35.0-125	B8900	09Apr14 1413 by 306	09Apr14 1908 by 301		
Volatile Organic Compounds									
Acetone	177262-2	40 ug/Kg	137	20.0-160	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Benzene	177262-2	20 ug/Kg	106	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Bromobenzene	177262-2	20 ug/Kg	93.4	65.0-120	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Bromochloromethane	177262-2	20 ug/Kg	114	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Bromodichloromethane	177262-2	20 ug/Kg	109	70.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Bromoform	177262-2	20 ug/Kg	98.6	55.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Bromomethane	177262-2	20 ug/Kg	111	30.0-160	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
2-Butanone	177262-2	40 ug/Kg	107	30.0-160	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Carbon disulfide	177262-2	40 ug/Kg	108	45.0-160	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Carbon tetrachloride	177262-2	20 ug/Kg	102	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Chlorobenzene	177262-2	20 ug/Kg	98.7	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Chloroethane	177262-2	20 ug/Kg	117	40.0-155	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
2-Chloroethyl vinyl ether	177262-2	40 ug/Kg	109	57.3-127	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Chloroform	177262-2	20 ug/Kg	112	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Chloromethane	177262-2	20 ug/Kg	108	50.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
2-Chlorotoluene	177262-2	20 ug/Kg	89.7	70.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
4-Chlorotoluene	177262-2	20 ug/Kg	91.2	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2-Dibromo-3-chloropropane	177262-2	20 ug/Kg	90.3	40.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Dibromochloromethane	177262-2	20 ug/Kg	99.0	65.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2-Dibromoethane	177262-2	20 ug/Kg	101	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Dibromomethane	177262-2	20 ug/Kg	112	75.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2-Dichlorobenzene	177262-2	20 ug/Kg	94.1	75.0-120	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,3-Dichlorobenzene	177262-2	20 ug/Kg	92.4	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,4-Dichlorobenzene	177262-2	20 ug/Kg	92.9	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Dichlorodifluoromethane	177262-2	20 ug/Kg	102	35.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1-Dichloroethane	177262-2	20 ug/Kg	111	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2-Dichloroethane	177262-2	20 ug/Kg	112	70.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1-Dichloroethene	177262-2	20 ug/Kg	109	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
cis-1,2-Dichloroethene	177262-2	20 ug/Kg	111	65.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
trans-1,2-Dichloroethene	177262-2	20 ug/Kg	109	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2-Dichloropropane	177262-2	20 ug/Kg	112	70.0-120	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,3-Dichloropropane	177262-2	20 ug/Kg	104	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
2,2-Dichloropropane	177262-2	20 ug/Kg	101	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1-Dichloropropene	177262-2	20 ug/Kg	107	70.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
cis-1,3-Dichloropropene	177262-2	20 ug/Kg	107	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
trans-1,3-Dichloropropene	177262-2	20 ug/Kg	111	65.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Ethylbenzene	177262-2	20 ug/Kg	95.4	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Hexachlorobutadiene	177262-2	20 ug/Kg	63.7	55.0-140	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
2-Hexanone	177262-2	40 ug/Kg	64.7	45.0-145	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Isopropylbenzene	177262-2	20 ug/Kg	96.4	75.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
m&p-Xylenes	177262-2	40 ug/Kg	97.3	80.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
4-Methyl-2-pentanone	177262-2	40 ug/Kg	63.8	45.0-145	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Methylene chloride	177262-2	20 ug/Kg	134	55.0-140	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
n-Butylbenzene	177262-2	20 ug/Kg	84.3	65.0-140	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
n-Propylbenzene	177262-2	20 ug/Kg	89.4	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Naphthalene	177262-2	20 ug/Kg	88.2	40.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
o-Xylene	177262-2	20 ug/Kg	99.9	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
p-Isopropyltoluene	177262-2	20 ug/Kg	91.4	75.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
sec-Butylbenzene	177262-2	20 ug/Kg	90.8	65.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Styrene	177262-2	20 ug/Kg	94.8	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
tert-Butylbenzene	177262-2	20 ug/Kg	93.7	65.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1,1,2-Tetrachloroethane	177262-2	20 ug/Kg	102	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1,2,2-Tetrachloroethane	177262-2	20 ug/Kg	95.9	55.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Tetrachloroethene	177262-2	20 ug/Kg	95.0	65.0-140	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Toluene	177262-2	20 ug/Kg	125	70.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2,3-Trichlorobenzene	177262-2	20 ug/Kg	85.2	60.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2,4-Trichlorobenzene	177262-2	20 ug/Kg	84.2	65.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1,1-Trichloroethane	177262-2	20 ug/Kg	109	70.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,1,2-Trichloroethane	177262-2	20 ug/Kg	111	60.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Trichloroethene	177262-2	20 ug/Kg	104	75.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Trichlorofluoromethane	177262-2	20 ug/Kg	109	25.0-185	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2,3-Trichloropropane	177262-2	20 ug/Kg	111	65.0-130	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,2,4-Trimethylbenzene	177262-2	20 ug/Kg	92.2	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
1,3,5-Trimethylbenzene	177262-2	20 ug/Kg	92.7	65.0-135	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Vinyl acetate	177262-2	40 ug/Kg	0.150	0.00-174	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Vinyl chloride	177262-2	20 ug/Kg	104	60.0-125	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	177262-2	50 ug/Kg	102	85.0-120	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Dibromofluoromethane	177262-2	50 ug/Kg	104	80.0-120	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		
Toluene-D8	177262-2	50 ug/Kg	94.8	85.0-115	V8492	10Apr14 1046 by 301	15Apr14 1737 by 301		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W47271-1	09Apr14 0739 by 308	09Apr14 1040 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W47273-1	09Apr14 0804 by 308	09Apr14 1127 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Arsenic	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Copper	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Lead	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Nickel	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Thallium	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W47300-1	11Apr14 0828 by 308	14Apr14 1448 by 308	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W47299-1	11Apr14 0828 by 308	11Apr14 1415 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W47317-1	12Apr14 1611 by 271	14Apr14 1458 by 271	
Antimony	< 3 mg/Kg	3	3	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Arsenic	< 5 mg/Kg	5	5	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Chromium	< 0.7 mg/Kg	0.7	0.7	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Copper	< 0.6 mg/Kg	0.6	0.6	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Lead	< 4 mg/Kg	4	4	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Nickel	< 1 mg/Kg	1	1	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Selenium	< 7 mg/Kg	7	7	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Silver	< 0.7 mg/Kg	0.7	0.7	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Thallium	< 4 mg/Kg	4	4	S36588-1	09Apr14 1053 by 285	10Apr14 1031 by 305	
Zinc	< 0.2 mg/Kg	0.2	0.2	S36588-1	09Apr14 1053 by 285	09Apr14 1700 by 305	
Mercury	< 0.1 mg/Kg	0.1	0.1	S36588-1	09Apr14 0945 by 311	09Apr14 1219 by 311	
Base/Neutral and Acid Compounds							
Acenaphthene	< 0.83 ug/l	0.83	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Acenaphthylene	< 0.79 ug/l	0.79	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Anthracene	< 1.5 ug/l	1.5	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzidine	< 14 ug/l	14	25	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(a)anthracene	< 0.75 ug/l	0.75	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(a)pyrene	< 0.63 ug/l	0.63	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(g,h,i)perylene	< 0.79 ug/l	0.79	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(k)fluoranthene	< 1.6 ug/l	1.6	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
3,4-Benzofluoranthene	< 1.4 ug/l	1.4	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-chloroethoxy)methane	< 0.80 ug/l	0.80	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-chloroethyl)ether	< 0.88 ug/l	0.88	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-chloroisopropyl)ether	< 0.94 ug/l	0.94	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-ethylhexyl)phthalate	< 3.8 ug/l	3.8	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4-Bromophenyl phenyl ether	< 1.2 ug/l	1.2	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Butylbenzyl phthalate	< 1.5 ug/l	1.5	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Chloronaphthalene	< 0.84 ug/l	0.84	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Chlorophenol	< 2.1 ug/l	2.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
4-Chlorophenyl phenyl ether	< 0.96 ug/l	0.96	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Chrysene	< 0.83 ug/l	0.83	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Di-n-butyl phthalate	< 1.1 ug/l	1.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Di-n-octyl phthalate	< 0.70 ug/l	0.70	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Dibenz(a,h)anthracene	< 1.2 ug/l	1.2	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
3,3'-Dichlorobenzidine	< 4.9 ug/l	4.9	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dichlorophenol	< 0.51 ug/l	0.51	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Diethyl phthalate	< 0.85 ug/l	0.85	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Dimethyl phthalate	< 0.93 ug/l	0.93	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dimethylphenol	< 0.79 ug/l	0.79	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4,6-Dinitro-o-cresol	< 0.75 ug/l	0.75	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dinitrophenol	< 0.74 ug/l	0.74	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dinitrotoluene	< 0.51 ug/l	0.51	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,6-Dinitrotoluene	< 0.83 ug/l	0.83	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
1,2-Diphenylhydrazine	< 0.60 ug/l	0.60	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Fluorene	< 0.99 ug/l	0.99	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachlorobenzene	< 1.1 ug/l	1.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachlorobutadiene	< 0.71 ug/l	0.71	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachlorocyclopentadiene	< 0.74 ug/l	0.74	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachloroethane	< 0.73 ug/l	0.73	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Indeno(1,2,3-cd)pyrene	< 1.2 ug/l	1.2	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Isophorone	< 0.90 ug/l	0.90	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
n-Nitrosodi-n-propylamine	< 0.90 ug/l	0.90	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
n-Nitrosodimethylamine	< 2.5 ug/l	2.5	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
n-Nitrosodiphenylamine	< 1.1 ug/l	1.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	R
Naphthalene	< 0.87 ug/l	0.87	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Nitrobenzene	< 0.85 ug/l	0.85	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Nitrophenol	< 0.82 ug/l	0.82	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4-Nitrophenol	< 0.70 ug/l	0.70	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
p-Chloro-m-cresol	< 1.7 ug/l	1.7	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Pentachlorophenol	< 0.94 ug/l	0.94	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Phenanthrene	< 0.93 ug/l	0.93	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Phenol	< 2.6 ug/l	2.6	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Pyrene	< 0.56 ug/l	0.56	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
1,2,4-Trichlorobenzene	< 0.87 ug/l	0.87	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4,6-Trichlorophenol	< 1.4 ug/l	1.4	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	94.8 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Fluorophenol (20.0-110%)	69.2 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Nitrobenzene-D5 (40.0-110%)	90.8 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Terphenyl-D14 (50.0-135%)	106 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4,6-Tribromophenol (40.0-125%)	92.5 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Volatile Organic Compounds							
Acrolein	< 0.78 ug/l	0.78	25	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Acrylonitrile	< 0.63 ug/l	0.63	25	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Benzene	< 0.12 ug/l	0.12	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Bromoform	< 0.26 ug/l	0.26	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Carbon tetrachloride	< 0.21 ug/l	0.21	2.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chlorobenzene	< 0.11 ug/l	0.11	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Chlorodibromomethane	< 0.11 ug/l	0.11	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chloroethane	< 0.35 ug/l	0.35	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
2-Chloroethyl vinyl ether	< 0.24 ug/l	0.24	10	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chloroform	< 0.16 ug/l	0.16	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,2-Dichlorobenzene	< 0.17 ug/l	0.17	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,3-Dichlorobenzene	< 0.14 ug/l	0.14	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,4-Dichlorobenzene	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Dichlorobromomethane	< 0.17 ug/l	0.17	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1-Dichloroethane	< 0.15 ug/l	0.15	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,2-Dichloroethane	< 0.21 ug/l	0.21	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1-Dichloroethylene	< 0.24 ug/l	0.24	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
trans-1,2-Dichloroethylene	< 0.20 ug/l	0.20	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,2-Dichloropropane	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,3-Dichloropropylene	< 0.20 ug/l	0.20	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Ethylbenzene	< 0.12 ug/l	0.12	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Methyl bromide(Bromomethane)	< 0.16 ug/l	0.16	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Methyl chloride(Chloromethane)	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Methylene chloride	< 0.25 ug/l	0.25	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1,2,2-Tetrachloroethane	< 0.20 ug/l	0.20	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Tetrachloroethylene	< 0.18 ug/l	0.18	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Toluene	< 0.16 ug/l	0.16	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1,1-Trichloroethane	< 0.13 ug/l	0.13	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1,2-Trichloroethane	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Trichloroethylene	< 0.22 ug/l	0.22	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Vinyl chloride	< 0.47 ug/l	0.47	2.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	95.6 %			V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Dibromofluoromethane (85.0-115%)	107 %			V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Toluene-D8 (85.0-120%)	101 %			V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Organochlorine Pesticides and PCBs							
Aldrin	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
alpha-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
alpha-Endosulfan	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
beta-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
beta-Endosulfan	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Chlordane	< 0.10 ug/l	0.10	0.10	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Chlorpyrifos	< 0.0050 ug/l	0.0050	0.050	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
4,4'-DDD	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
4,4'-DDE	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
4,4'-DDT	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
delta-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Dieldrin	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Endosulfan sulfate	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Endrin	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Endrin aldehyde	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
gamma-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Heptachlor	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Heptachlor epoxide	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1016	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Organochlorine Pesticides and PCBs							
PCB 1221	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1232	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1242	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1248	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1254	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1260	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Toxaphene	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Organochlorine Pesticides and PCBs Surrogates:							
Decachlorobiphenyl (30.0-135%)	72.6 %			G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Tetrachloro-m-xylene (25.0-140%)	96.2 %			G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Base/Neutral and Acid Compounds							
3 & 4-Methylphenol	< 92 ug/Kg	92	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Acenaphthene	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Acenaphthylene	< 96 ug/Kg	96	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Anthracene	< 120 ug/Kg	120	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzo(a)anthracene	< 83 ug/Kg	83	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzo(a)pyrene	< 65 ug/Kg	65	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzo(b)fluoranthene	< 89 ug/Kg	89	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzo(g,h,i)perylene	< 99 ug/Kg	99	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzo(k)fluoranthene	< 76 ug/Kg	76	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzoic acid	< 300 ug/Kg	300	1700	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Benzyl alcohol	< 150 ug/Kg	150	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
bis(2-Chloroethoxy)Methane	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
bis(2-Chloroethyl)Ether	< 94 ug/Kg	94	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
bis(2-Chloroisopropyl)Ether	< 88 ug/Kg	88	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
bis(2-Ethylhexyl)Phthalate	< 140 ug/Kg	140	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4-Bromophenyl phenyl ether	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Butyl benzyl phthalate	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4-Chloro-3-methylphenol	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4-Chloroaniline	< 73 ug/Kg	73	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Chloronaphthalene	< 90 ug/Kg	90	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Chlorophenol	< 93 ug/Kg	93	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4-Chlorophenyl phenyl ether	< 120 ug/Kg	120	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Chrysene	< 99 ug/Kg	99	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Di-n-butyl phthalate	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Di-n-octyl phthalate	< 160 ug/Kg	160	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Dibenz(a,h)anthracene	< 100 ug/Kg	100	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Dibenzofuran	< 97 ug/Kg	97	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
1,2-Dichlorobenzene	< 92 ug/Kg	92	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
1,3-Dichlorobenzene	< 83 ug/Kg	83	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
1,4-Dichlorobenzene	< 100 ug/Kg	100	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
3,3'-Dichlorobenzidine	< 210 ug/Kg	210	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4-Dichlorophenol	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Diethyl phthalate	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Dimethyl phthalate	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4-Dimethylphenol	< 90 ug/Kg	90	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4,6-Dinitro-2-methylphenol	< 84 ug/Kg	84	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4-Dinitrophenol	< 210 ug/Kg	210	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4-Dinitrotoluene	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
2,6-Dinitrotoluene	< 260 ug/Kg	260	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Fluoranthene	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Fluorene	< 93 ug/Kg	93	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Hexachlorobenzene	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Hexachlorobutadiene	< 79 ug/Kg	79	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Hexachlorocyclopentadiene	< 86 ug/Kg	86	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Hexachloroethane	< 88 ug/Kg	88	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Indeno(1,2,3-cd)pyrene	< 85 ug/Kg	85	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Isophorone	< 99 ug/Kg	99	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Methylnaphthalene	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Methylphenol	< 97 ug/Kg	97	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
N-Nitroso-di-n-propylamine	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
n-Nitrosodiphenylamine	< 120 ug/Kg	120	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	R
Naphthalene	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Nitroaniline	< 99 ug/Kg	99	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
3-Nitroaniline	< 140 ug/Kg	140	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4-Nitroaniline	< 320 ug/Kg	320	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Nitrobenzene	< 130 ug/Kg	130	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Nitrophenol	< 120 ug/Kg	120	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
4-Nitrophenol	< 310 ug/Kg	310	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Pentachlorophenol	< 280 ug/Kg	280	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Phenanthrene	< 120 ug/Kg	120	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Phenol	< 90 ug/Kg	90	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Pyrene	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
1,2,4-Trichlorobenzene	< 100 ug/Kg	100	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4,5-Trichlorophenol	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4,6-Trichlorophenol	< 110 ug/Kg	110	330	B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (45.0-105%)	82.8 %			B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2-Fluorophenol (35.0-105%)	86.2 %			B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Nitrobenzene-D5 (35.0-100%)	87.8 %			B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Terphenyl-D14 (30.0-125%)	96.5 %			B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
2,4,6-Tribromophenol (35.0-125%)	60.5 %			B8900-1	09Apr14 1413 by 306	09Apr14 1722 by 301	
Volatile Organic Compounds							
Acetone	< 4.0 ug/Kg	4.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Benzene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Bromobenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Bromochloromethane	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Bromodichloromethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Bromoform	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Bromomethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
2-Butanone	< 1.0 ug/Kg	1.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Carbon disulfide	< 1.0 ug/Kg	1.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Carbon Tetrachloride	< 2.0 ug/Kg	2.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Chlorobenzene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Chloroethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
2-Chloroethyl vinyl ether	< 1.0 ug/Kg	1.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Chloroform	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Chloromethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
2-Chlorotoluene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
4-Chlorotoluene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2-Dibromo-3-chloropropane	< 2.0 ug/Kg	2.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Dibromochloromethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2-Dibromoethane	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Dibromomethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,3-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,4-Dichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Dichlorodifluoromethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1-Dichloroethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2-Dichloroethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
cis-1,2-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
trans-1,2-Dichloroethene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,3-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
2,2-Dichloropropane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
cis-1,3-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
trans-1,3-Dichloropropene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Ethylbenzene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Hexachlorobutadiene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
2-Hexanone	< 2.0 ug/Kg	2.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Isopropylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
m&p-Xylenes	< 1.0 ug/Kg	1.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
4-Methyl-2-pentanone	< 1.0 ug/Kg	1.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Methylene chloride	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
n-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
n-Propylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Naphthalene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
o-Xylene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
p-Isopropyltoluene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
sec-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Styrene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
tert-Butylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1,1,2-Tetrachloroethane	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1,2,2-Tetrachloroethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Tetrachloroethene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Toluene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2,3-Trichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2,4-Trichlorobenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1,1-Trichloroethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,1,2-Trichloroethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Trichloroethene	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Trichlorofluoromethane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2,3-Trichloropropane	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,2,4-Trimethylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
1,3,5-Trimethylbenzene	< 1.0 ug/Kg	1.0	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Vinyl acetate	< 1.0 ug/Kg	1.0	10	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Vinyl chloride	< 0.50 ug/Kg	0.50	5.0	V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (85.0-120%)	96.0 %			V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Dibromofluoromethane (80.0-120%)	97.0 %			V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Toluene-D8 (85.0-115%)	101 %			V8492-1	10Apr14 1046 by 301	15Apr14 1858 by 301	
Organochlorine Pesticides							
Aldrin	< 0.33 ug/Kg	0.33	0.67	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
alpha-BHC	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
alpha-Endosulfan	< 0.33 ug/Kg	0.33	0.67	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
beta-BHC	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
beta-Endosulfan	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Chlordane	< 6.7 ug/Kg	6.7	6.7	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
4,4'-DDD	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
4,4'-DDE	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
4,4'-DDT	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
delta-BHC	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Dieldrin	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Endosulfan sulfate	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Endrin	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Endrin aldehyde	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
gamma-BHC	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Heptachlor	< 0.33 ug/Kg	0.33	0.67	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Heptachlor epoxide	< 0.33 ug/Kg	0.33	0.67	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Methoxychlor	< 0.33 ug/Kg	0.33	1.4	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Toxaphene	< 14 ug/Kg	14	14	G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Organochlorine Pesticides Surrogates:							
Decachlorobiphenyl (55.0-130%)	87.2 %			G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	
Tetrachloro-m-xylene (70.0-125%)	116 %			G9661-1	09Apr14 1500 by 306	10Apr14 1959 by 306	

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>City of Fort Smith</u>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED ¹										AIC CONTROL NO: <u>177262</u>					
Project Reference: <u>Massard Table II/III Priority</u>			SAMPLE MATRIX			<u>T. Cyanide</u> <u>Pesticides</u> <u>BNA. 625</u> <u>Pest. 608</u> <u>VOA. 624</u> <u>PP Metals</u> <u>MO</u> <u>Table II: BNA, PEST.</u> <u>VOA, T. Solids</u> <u>Table III: PP Metals</u> <u>CNT, Pesticides</u> <u>MO</u>										AIC PROPOSAL NO:					
Project Manager: <u>Lance McAvoy</u>			G R A B	C O M P	W A T E R	S O I L	NO OF BOTTLES											Carrier/Tracking No. <u>Fed-7</u>			
Sampled By: <u>Chris Cooper Amber Parker</u>																		Received Temperature C <u>14</u>			
AIC No.	Sample Identification	Date/Time Collected	G R A B	C O M P	W A T E R	S O I L	NO OF BOTTLES	T. Cyanide	Pesticides	BNA. 625	Pest. 608	VOA. 624	PP Metals	MO	Table II: BNA, PEST.	VOA, T. Solids	Table III: PP Metals	CNT, Pesticides	MO	Remarks	
1	Massard Influent	4/7/14 0928	X		X		1	X													
1	Massard Influent	4/7/14 0926	X		X		1		X												
1	Massard Influent	4/7/14 0930	X		X		3			X											
1	Massard Influent	4/7/14 0926	X		X		3				X										
1	Massard Influent	4/7/14 0924	X		X		3					X									
1	Massard Influent	4/7/14 0929	X		X		1						X	X							
2	Massard Raw Biosolid	4/7/14 0927	X		X		1								X	X	X				
Container Type									P	G	G	G	V	P	P	G	G	G	Field pH calibration on _____ @ _____		
Preservative									B	S	NO	NO	NO	N	N	NO	NO	NO	Buffer:		
G = Glass			P = Plastic			V = VOA vials			H = HCl to pH2			T = Sodium Thiosulfate									
NO = none			S = Sulfuric acid pH2			N = Nitric acid pH2			B = NaOH to pH12			Z = Zinc acetate									
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS																					
Expedited results requested by: _____																					
Who should AIC contact with questions: <u>Lance McAvoy</u>																					
Phone: <u>479-784-2337</u> Fax: _____																					
Report Attention to: <u>Lance McAvoy</u>																					
Report Address to: _____																					
Relinquished By: <u>Chris Cooper</u>						Date/Time: <u>4/7/14 1545</u>						Received By: _____						Date/Time: _____			
Relinquished By: _____						Date/Time: _____						Received in Lab By: <u>Lance McAvoy</u>						Date/Time: <u>4-8-14 0900</u>			
Comments: ¹ Required Reporting Limit for Metals must be identified on back of COC.																					
<u>Fed ex Tracking # 8024 7206 7483</u>																					



City of Fort Smith
ATTN: Mr. Lance McAvoy
3900 Kelley Highway
Fort Smith, AR 72904

RECEIVED

APR 14 2014

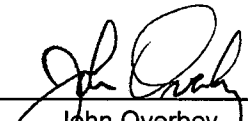
WATER/WASTEWATER

April 10, 2014
Control No. 177260
Page 1 of 25

This report contains the analytical results and supporting information for the sample submitted on April 8, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: City of Fort Smith
ATTN: Mr. Lance McAvoy
lmcavoy@fortsmithar.gov



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

SAMPLE INFORMATION

Project Description:

One (1) water sample(s) received on April 8, 2014
Massard Table II / III Priority Pollutants

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
177260-1	Massard Effluent 4/7/14 1432, 1433, 1435, 1437	07-Apr-2014 1437	

Qualifiers:

- D Result is from a secondary dilution factor
- R n-Nitrosodiphenylamine cannot be separated from diphenylamine

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177260-1

Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	25	5	ug/l	
Prep: 09-Apr-2014 0739 by 308	Analyzed: 09-Apr-2014 1040 by 308		Batch: W47271	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 09-Apr-2014 0804 by 308	Analyzed: 09-Apr-2014 1130 by 308		Batch: W47273	
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Arsenic EPA 200.8	0.88	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Copper EPA 200.8	5.6	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Lead EPA 200.8	0.79	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Nickel EPA 200.8	3.0	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Total Recoverable Zinc EPA 200.8	39	20	ug/l	
Prep: 08-Apr-2014 1040 by 285	Analyzed: 08-Apr-2014 1348 by 305		Batch: S36576	
Base/Neutral and Acid Compounds By EPA 625				
Acenaphthene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Acenaphthylene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Anthracene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Benzidine EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Benzo(a)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS
AIC No. 177260-1 (Continued)
Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Benzo(a)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Benzo(g,h,i)perylene EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Benzo(k)fluoranthene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
3,4-Benzofluoranthene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Bis(2-chloroethoxy)methane EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Bis(2-chloroethyl)ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Bis(2-chloroisopropyl)ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Bis(2-ethylhexyl)phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
4-Bromophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Butylbenzyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2-Chloronaphthalene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2-Chlorophenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
4-Chlorophenyl phenyl ether EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Chrysene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Di-n-butyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Di-n-octyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Dibenz(a,h)anthracene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
3,3'-Dichlorobenzidine EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2,4-Dichlorophenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Diethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177260-1 (Continued)

Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
Dimethyl phthalate EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2,4-Dimethylphenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
4,6-Dinitro-o-cresol EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2,4-Dinitrophenol EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2,4-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2,6-Dinitrotoluene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
1,2-Diphenylhydrazine EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Fluorene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Hexachlorobenzene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Hexachlorobutadiene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Hexachlorocyclopentadiene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Hexachloroethane EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Indeno(1,2,3-cd)pyrene EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Isophorone EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
n-Nitrosodi-n-propylamine EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
n-Nitrosodimethylamine EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
n-Nitrosodiphenylamine EPA 625	< 20	20	ug/l	R
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Naphthalene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Nitrobenzene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2-Nitrophenol EPA 625	< 20	20	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177260-1 (Continued)

Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

Analyte	Result	RL	Units	Qualifier
Base/Neutral and Acid Compounds By EPA 625 (Continued)				
4-Nitrophenol EPA 625	< 50	50	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
p-Chloro-m-cresol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Pentachlorophenol EPA 625	< 5.0	5.0	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Phenanthrene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Phenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Pyrene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
1,2,4-Trichlorobenzene EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
2,4,6-Trichlorophenol EPA 625	< 10	10	ug/l	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Surrogate: 2-Fluorobiphenyl (50.0-110%) EPA 625	96.5		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Surrogate: 2-Fluorophenol (20.0-110%) EPA 625	70.0		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Surrogate: Nitrobenzene-D5 (40.0-110%) EPA 625	98.0		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Surrogate: Terphenyl-D14 (50.0-135%) EPA 625	118		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Surrogate: 2,4,6-Tribromophenol (40.0-125%) EPA 625	78.8		%	
Prep: 08-Apr-2014 1122 by 306	Analyzed: 08-Apr-2014 2308 by 301		Batch: B8896	
Volatile Organic Compounds By EPA 624				
Acrolein EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Acrylonitrile EPA 624	< 20	20	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Benzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Bromoform EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Carbon tetrachloride EPA 624	< 2.0	2.0	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Chlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177260-1 (Continued)

Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Chlorodibromomethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Chloroethane EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
2-Chloroethyl vinyl ether EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Chloroform EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,2-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,3-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,4-Dichlorobenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Dichlorobromomethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,1-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,2-Dichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,1-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
trans-1,2-Dichloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,2-Dichloropropane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,3-Dichloropropylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Ethylbenzene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Methyl bromide(Bromomethane) EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Methyl chloride(Chloromethane) EPA 624	< 50	50	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Methylene chloride EPA 624	< 20	20	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,1,1,2-Tetrachloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Tetrachloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177260-1 (Continued)

Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

Analyte	Result	RL	Units	Qualifier
Volatile Organic Compounds By EPA 624 (Continued)				
Toluene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,1,1-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
1,1,2-Trichloroethane EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Trichloroethylene EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Vinyl chloride EPA 624	< 10	10	ug/l	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Surrogate: 4-Bromofluorobenzene (75.0-120%) EPA 624	94.1		%	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Surrogate: Dibromofluoromethane (85.0-115%) EPA 624	113		%	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Surrogate: Toluene-D8 (85.0-120%) EPA 624	100		%	
Prep: 08-Apr-2014 1015 by 301	Analyzed: 08-Apr-2014 1637 by 301		Batch: V8491	
Organochlorine Pesticides and PCBs By EPA 608				
Aldrin EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
alpha-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
alpha-Endosulfan EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
beta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
beta-Endosulfan EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Chlordane EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Chlorpyrifos EPA 608	< 0.070	0.070	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
4,4'-DDD EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
4,4'-DDE EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
4,4'-DDT EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
delta-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177260-1 (Continued)

Sample Identification: Massard Effluent 4/7/14 1432, 1433, 1435, 1437

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Organochlorine Pesticides and PCBs By EPA 608 (Continued)				
Dieldrin EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Endosulfan sulfate EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Endrin EPA 608	< 0.020	0.020	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Endrin aldehyde EPA 608	< 0.10	0.10	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
gamma-BHC EPA 608	< 0.050	0.050	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Heptachlor EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Heptachlor epoxide EPA 608	< 0.010	0.010	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1016 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1221 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1232 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1242 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1248 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1254 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
PCB 1260 EPA 608	< 0.20	0.20	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Toxaphene EPA 608	< 0.30	0.30	ug/l	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Surrogate: Decachlorobiphenyl (30.0-135%) EPA 608	93.4		%	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	
Surrogate: Tetrachloro-m-xylene (25.0-140%) EPA 608	77.5		%	
Prep: 08-Apr-2014 1412 by 306	Analyzed: 09-Apr-2014 1649 by 306		Batch: G9659	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds								
Acrolein	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Acrylonitrile	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Benzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Bromodichloromethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Bromoform	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Bromomethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Carbon tetrachloride	177253-1	< 0.20 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.20 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
2-Chloroethyl vinyl ether	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	20.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chloroform	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Chloromethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Dibromochloromethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,2-Dichlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,3-Dichlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,4-Dichlorobenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1-Dichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,2-Dichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
trans-1,2-Dichloroethene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1-Dichloroethylene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,2-Dichloropropane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,3-Dichloropropylene	177253-1	< 0.10 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.10 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Ethylbenzene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Methylene chloride	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1,2,2-Tetrachloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Tetrachloroethylene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Toluene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1,1-Trichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
1,1,2-Trichloroethane	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Trichloroethylene	177253-1	< 0.50 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.50 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Vinyl chloride	177253-1	< 0.20 mg/l			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	< 0.20 mg/l	0.00	30.0	08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
4-Bromofluorobenzene (75.0-120%)	177253-1	95.1 %			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	94.0 %			08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Dibromofluoromethane (85.0-115%)	177253-1	106 %			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	110 %			08Apr14 1014 by 301	08Apr14 1442 by 301	100	D
Toluene-D8 (85.0-120%)	177253-1	102 %			08Apr14 1014 by 301	08Apr14 1403 by 301	100	D
	Batch: V8491 Duplicate	101 %			08Apr14 1014 by 301	08Apr14 1442 by 301	100	D



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	90.9	85.0-115			W47271	09Apr14 0739 by 308	09Apr14 1040 by 308		
Total Cyanide	0.1 mg/l	108	85.0-115			W47273	09Apr14 0804 by 308	09Apr14 1129 by 308		
Total Recoverable Antimony	0.05 mg/l	109	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Arsenic	0.05 mg/l	106	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Beryllium	0.05 mg/l	101	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Cadmium	0.05 mg/l	96.7	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Chromium	0.05 mg/l	101	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Copper	0.05 mg/l	101	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Lead	0.05 mg/l	98.0	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Molybdenum	0.05 mg/l	99.2	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Nickel	0.05 mg/l	100	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Selenium	0.05 mg/l	99.3	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Silver	0.02 mg/l	97.9	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Thallium	0.05 mg/l	96.3	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Total Recoverable Zinc	0.05 mg/l	102	85.0-115			S36576	08Apr14 1041 by 285	08Apr14 1317 by 305		
Base/Neutral and Acid Compounds										
Acenaphthene	40 ug/l	84.2	45.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Acenaphthylene	40 ug/l	84.8	50.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Anthracene	40 ug/l	91.5	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzidine	100 ug/l	16.1	0.00-61.1			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(a)anthracene	40 ug/l	93.8	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(a)pyrene	40 ug/l	98.8	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(g,h,i)perylene	40 ug/l	110	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Benzo(k)fluoranthene	40 ug/l	102	45.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
3,4-Benzofluoranthene	40 ug/l	99.2	45.0-120			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-chloroethoxy)methane	40 ug/l	81.5	45.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-chloroethyl)ether	40 ug/l	80.2	35.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-chloroisopropyl)ether	40 ug/l	86.5	25.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Bis(2-ethylhexyl)phthalate	40 ug/l	90.8	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4-Bromophenyl phenyl ether	40 ug/l	93.0	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Butylbenzyl phthalate	40 ug/l	97.8	45.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Chloronaphthalene	40 ug/l	83.2	50.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Chlorophenol	40 ug/l	77.2	35.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4-Chlorophenyl phenyl ether	40 ug/l	85.2	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Chrysene	40 ug/l	94.2	55.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Di-n-butyl phthalate	40 ug/l	92.0	55.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Di-n-octyl phthalate	40 ug/l	104	35.0-135			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Dibenz(a,h)anthracene	40 ug/l	105	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,2-Dichlorobenzene	40 ug/l	76.8	35.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,3-Dichlorobenzene	40 ug/l	76.5	30.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,4-Dichlorobenzene	40 ug/l	79.0	30.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)										
3,3'-Dichlorobenzidine	40 ug/l	77.0	20.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dichlorophenol	40 ug/l	80.5	50.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Diethyl phthalate	40 ug/l	86.5	40.0-120			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Dimethyl phthalate	40 ug/l	88.0	25.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dimethylphenol	40 ug/l	69.2	30.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4,6-Dinitro-o-cresol	40 ug/l	99.8	40.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dinitrophenol	40 ug/l	56.2	15.0-140			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4-Dinitrotoluene	40 ug/l	84.2	50.0-120			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,6-Dinitrotoluene	40 ug/l	87.2	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,2-Diphenylhydrazine	40 ug/l	93.5	55.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Fluorene	40 ug/l	87.8	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachlorobenzene	40 ug/l	93.5	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachlorobutadiene	40 ug/l	74.0	25.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachlorocyclopentadiene	40 ug/l	79.2	35.0-102			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Hexachloroethane	40 ug/l	77.5	30.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Indeno(1,2,3-cd)pyrene	40 ug/l	105	45.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Isophorone	40 ug/l	79.0	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
n-Nitrosodi-n-propylamine	40 ug/l	85.5	35.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
n-Nitrosodimethylamine	40 ug/l	65.5	25.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
n-Nitrosodiphenylamine	40 ug/l	93.2	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Naphthalene	40 ug/l	82.5	40.0-100			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Nitrobenzene	40 ug/l	80.5	45.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Nitrophenol	40 ug/l	78.2	40.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
4-Nitrophenol	40 ug/l	59.2	0.00-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
p-Chloro-m-cresol	40 ug/l	80.5	45.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Pentachlorophenol	40 ug/l	81.5	40.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Phenanthrene	40 ug/l	93.0	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Phenol	40 ug/l	49.2	0.00-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Pyrene	40 ug/l	102	50.0-130			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
1,2,4-Trichlorobenzene	40 ug/l	78.5	35.0-105			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4,6-Trichlorophenol	40 ug/l	85.2	50.0-115			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Base/Neutral and Acid Compounds Surrogates:										
2-Fluorobiphenyl	40 ug/l	89.0	50.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2-Fluorophenol	40 ug/l	65.8	20.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Nitrobenzene-D5	40 ug/l	84.0	40.0-110			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Terphenyl-D14	40 ug/l	105	50.0-135			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
2,4,6-Tribromophenol	40 ug/l	98.5	40.0-125			B8896	08Apr14 1122 by 306	08Apr14 1936 by 301		
Volatile Organic Compounds										
Acrolein	100 ug/l	80.8	33.0-154			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)										
Acrylonitrile	100 ug/l	102	64.4-133			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Benzene	20 ug/l	102	80.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Bromodichloromethane	20 ug/l	101	75.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Bromoform	20 ug/l	99.0	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Bromomethane	20 ug/l	97.4	30.0-145			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Carbon tetrachloride	20 ug/l	105	65.0-140			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chlorobenzene	20 ug/l	104	80.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chloroethane	20 ug/l	112	60.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
2-Chloroethyl vinyl ether	40 ug/l	113	69.9-126			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chloroform	20 ug/l	102	65.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Chloromethane	20 ug/l	93.5	40.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Dibromochloromethane	20 ug/l	104	60.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,2-Dichlorobenzene	20 ug/l	100	70.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,3-Dichlorobenzene	20 ug/l	103	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,4-Dichlorobenzene	20 ug/l	102	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1-Dichloroethane	20 ug/l	106	70.0-135			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,2-Dichloroethane	20 ug/l	102	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1-Dichloroethene	20 ug/l	111	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
trans-1,2-Dichloroethene	20 ug/l	106	60.0-140			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,2-Dichloropropane	20 ug/l	102	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,3-Dichloropropylene	20 ug/l	99.3	70.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Ethylbenzene	20 ug/l	100	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Methylene chloride	20 ug/l	103	55.0-140			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1,2,2-Tetrachloroethane	20 ug/l	103	65.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Tetrachloroethene	20 ug/l	110	45.0-150			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Toluene	20 ug/l	101	75.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1,1-Trichloroethane	20 ug/l	103	65.0-130			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
1,1,2-Trichloroethane	20 ug/l	98.9	75.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Trichloroethene	20 ug/l	102	70.0-125			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Vinyl chloride	20 ug/l	110	50.0-145			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Volatile Organic Compounds Surrogates:										
4-Bromofluorobenzene	50 ug/l	97.8	75.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Dibromofluoromethane	50 ug/l	102	85.0-115			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Toluene-D8	50 ug/l	103	85.0-120			V8491	08Apr14 1014 by 301	08Apr14 1051 by 301		
Organochlorine Pesticides and PCBs										
Aldrin	10 ug/l	86.9	25.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
alpha-BHC	10 ug/l	82.0	60.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
alpha-Endosulfan	10 ug/l	105	50.0-110			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
beta-BHC	10 ug/l	91.1	65.0-125			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

<u>Analyte</u>	<u>Spike Amount</u>	<u>%</u>	<u>Limits</u>	<u>RPD</u>	<u>Limit</u>	<u>Batch</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Dil</u>	<u>Qual</u>
Organochlorine Pesticides and PCBs (Continued)										
beta-Endosulfan	10 ug/l	119	30.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Chlorpyrifos	10 ug/l	110	55.4-122			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
4,4'-DDD	10 ug/l	73.5	25.0-150			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
4,4'-DDE	10 ug/l	98.3	35.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
4,4'-DDT	10 ug/l	126	45.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
delta-BHC	10 ug/l	108	45.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Dieldrin	10 ug/l	114	60.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Endosulfan sulfate	10 ug/l	118	55.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Endrin	10 ug/l	117	55.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Endrin aldehyde	10 ug/l	74.6	55.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
gamma-BHC	10 ug/l	92.8	25.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Heptachlor	10 ug/l	78.8	40.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Heptachlor epoxide	10 ug/l	102	60.0-130			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Organochlorine Pesticides and PCBs Surrogates:										
Decachlorobiphenyl	20 ug/l	67.3	30.0-135			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		
Tetrachloro-m-xylene	20 ug/l	87.6	25.0-140			G9659	08Apr14 1411 by 306	08Apr14 1606 by 306		



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	177260-1	0.1 mg/l	91.5	80.0-120	W47271	09Apr14 0739 by 308	09Apr14 1040 by 308		
	177260-1	0.1 mg/l	94.9	80.0-120	W47271	09Apr14 0739 by 308	09Apr14 1040 by 308		
	Relative Percent Difference:		2.88	10.0	W47271				
Total Cyanide	177260-1	0.1 mg/l	101	75.0-125	W47273	09Apr14 0804 by 308	09Apr14 1132 by 308		
	177260-1	0.1 mg/l	93.0	75.0-125	W47273	09Apr14 0804 by 308	09Apr14 1134 by 308		
	Relative Percent Difference:		7.77	20.0	W47273				
Total Recoverable Antimony	177255-1	0.05 mg/l	123	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	124	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.903	20.0	S36576				
Total Recoverable Arsenic	177255-1	0.05 mg/l	104	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	104	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.202	20.0	S36576				
Total Recoverable Beryllium	177255-1	0.05 mg/l	100	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	99.2	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.20	20.0	S36576				
Total Recoverable Cadmium	177255-1	0.05 mg/l	96.2	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	95.9	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.257	20.0	S36576				
Total Recoverable Chromium	177255-1	0.05 mg/l	100	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	99.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.790	20.0	S36576				
Total Recoverable Copper	177255-1	0.05 mg/l	94.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	93.1	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.10	20.0	S36576				
Total Recoverable Lead	177255-1	0.05 mg/l	97.6	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	97.6	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.0286	20.0	S36576				
Total Recoverable Molybdenum	177255-1	0.05 mg/l	101	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	101	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.864	20.0	S36576				
Total Recoverable Nickel	177255-1	0.05 mg/l	97.9	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	96.8	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.16	20.0	S36576				
Total Recoverable Selenium	177255-1	0.05 mg/l	97.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	97.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.00146	20.0	S36576				
Total Recoverable Silver	177255-1	0.02 mg/l	95.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.02 mg/l	95.2	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		0.130	20.0	S36576				
Total Recoverable Thallium	177255-1	0.05 mg/l	95.9	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	94.7	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.30	20.0	S36576				
Total Recoverable Zinc	177255-1	0.05 mg/l	95.8	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1322 by 305		
	177255-1	0.05 mg/l	94.3	75.0-125	S36576	08Apr14 1041 by 285	08Apr14 1327 by 305		
	Relative Percent Difference:		1.29	20.0	S36576				
Base/Neutral and Acid Compounds									
Acenaphthene	177160-1	40 ug/l	86.8	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.5	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.47	30.0	B8896				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Acenaphthylene	177160-1	40 ug/l	85.2	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.0	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.88	30.0	B8896				
Anthracene	177160-1	40 ug/l	91.0	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	84.8	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.11	30.0	B8896				
Benzidine	177160-1	100 ug/l	11.7	0.00-96.2	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	100 ug/l	12.1	0.00-96.2	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		3.36	172	B8896				
Benzo(a)anthracene	177160-1	40 ug/l	91.5	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	85.5	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.78	30.0	B8896				
Benzo(a)pyrene	177160-1	40 ug/l	97.8	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	91.0	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.15	30.0	B8896				
Benzo(g,h,i)perylene	177160-1	40 ug/l	114	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	101	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		11.6	30.0	B8896				
Benzo(k)fluoranthene	177160-1	40 ug/l	98.2	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	94.0	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.42	30.0	B8896				
3,4-Benzofluoranthene	177160-1	40 ug/l	101	45.0-120	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	91.0	45.0-120	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.4	30.0	B8896				
Bis(2-chloroethoxy)methane	177160-1	40 ug/l	88.0	45.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	82.2	45.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.75	30.0	B8896				
Bis(2-chloroethyl)ether	177160-1	40 ug/l	89.5	35.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	83.2	35.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.24	30.0	B8896				
Bis(2-chloroisopropyl)ether	177160-1	40 ug/l	96.2	25.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	90.8	25.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		5.88	30.0	B8896				
Bis(2-ethylhexyl)phthalate	177160-1	40 ug/l	102	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	92.5	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.0	30.0	B8896				
4-Bromophenyl phenyl ether	177160-1	40 ug/l	87.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		9.58	30.0	B8896				
Butylbenzyl phthalate	177160-1	40 ug/l	108	45.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	96.2	45.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		11.0	30.0	B8896				
2-Chloronaphthalene	177160-1	40 ug/l	86.2	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.4	30.0	B8896				
2-Chlorophenol	177160-1	40 ug/l	83.2	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.83	30.0	B8896				
4-Chlorophenyl phenyl ether	177160-1	40 ug/l	83.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.53	30.0	B8896				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Chrysene	177160-1	40 ug/l	91.5	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	84.8	55.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.66	30.0	B8896				
Di-n-butyl phthalate	177160-1	40 ug/l	94.0	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	88.5	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.03	30.0	B8896				
Di-n-octyl phthalate	177160-1	40 ug/l	112	35.0-135	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	104	35.0-135	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.42	30.0	B8896				
Dibenz(a,h)anthracene	177160-1	40 ug/l	112	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	98.5	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		12.4	30.0	B8896				
1,2-Dichlorobenzene	177160-1	40 ug/l	81.2	35.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	74.2	35.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		9.00	30.0	B8896				
1,3-Dichlorobenzene	177160-1	40 ug/l	80.2	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	73.8	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.44	30.0	B8896				
1,4-Dichlorobenzene	177160-1	40 ug/l	81.5	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	75.8	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.31	30.0	B8896				
3,3'-Dichlorobenzidine	177160-1	40 ug/l	58.5	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	72.8	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		21.7	30.0	B8896				
2,4-Dichlorophenol	177160-1	40 ug/l	82.8	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	76.0	50.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.50	30.0	B8896				
Diethyl phthalate	177160-1	40 ug/l	85.0	40.0-120	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	81.5	40.0-120	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.20	30.0	B8896				
Dimethyl phthalate	177160-1	40 ug/l	85.8	25.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	81.2	25.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		5.39	30.0	B8896				
2,4-Dimethylphenol	177160-1	40 ug/l	75.0	30.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	66.2	30.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		12.4	30.0	B8896				
4,6-Dinitro-o-cresol	177160-1	40 ug/l	92.8	40.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	85.0	40.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.72	30.0	B8896				
2,4-Dinitrophenol	177160-1	40 ug/l	68.5	15.0-140	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	63.5	15.0-140	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.58	30.0	B8896				
2,4-Dinitrotoluene	177160-1	40 ug/l	84.0	50.0-120	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.0	50.0-120	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.88	30.0	B8896				
2,6-Dinitrotoluene	177160-1	40 ug/l	85.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.5	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.02	30.0	B8896				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
1,2-Diphenylhydrazine	177160-1	40 ug/l	102	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	91.2	55.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		11.6	30.0	B8896				
Fluorene	177160-1	40 ug/l	86.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.2	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.92	30.0	B8896				
Hexachlorobenzene	177160-1	40 ug/l	85.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.8	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.22	30.0	B8896				
Hexachlorobutadiene	177160-1	40 ug/l	74.2	25.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	68.5	25.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.06	30.0	B8896				
Hexachlorocyclopentadiene	177160-1	40 ug/l	76.8	6.60-121	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	68.0	6.60-121	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		12.1	41.4	B8896				
Hexachloroethane	177160-1	40 ug/l	83.2	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.5	30.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.61	30.0	B8896				
Indeno(1,2,3-cd)pyrene	177160-1	40 ug/l	111	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	99.5	45.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.7	30.0	B8896				
Isophorone	177160-1	40 ug/l	86.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.85	30.0	B8896				
n-Nitrosodi-n-propylamine	177160-1	40 ug/l	95.5	35.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	89.5	35.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.49	30.0	B8896				
n-Nitrosodimethylamine	177160-1	40 ug/l	82.5	25.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	76.8	25.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.22	30.0	B8896				
n-Nitrosodiphenylamine	177160-1	40 ug/l	94.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	85.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.0	30.0	B8896				
Naphthalene	177160-1	40 ug/l	85.2	40.0-100	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.5	40.0-100	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.24	30.0	B8896				
Nitrobenzene	177160-1	40 ug/l	88.2	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	80.8	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.88	30.0	B8896				
2-Nitrophenol	177160-1	40 ug/l	85.5	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.2	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		10.1	30.0	B8896				
4-Nitrophenol	177160-1	40 ug/l	62.5	0.00-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	60.2	0.00-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		3.67	30.0	B8896				
p-Chloro-m-cresol	177160-1	40 ug/l	82.5	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	79.0	45.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		4.33	30.0	B8896				
Pentachlorophenol	177160-1	40 ug/l	85.5	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	78.5	40.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.54	30.0	B8896				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Base/Neutral and Acid Compounds (Continued)									
Phenanthrene	177160-1	40 ug/l	93.8	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	86.8	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.76	30.0	B8896				
Phenol	177160-1	40 ug/l	54.0	0.00-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	50.5	0.00-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		6.70	30.0	B8896				
Pyrene	177160-1	40 ug/l	108	50.0-130	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	94.5	50.0-130	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		13.1	30.0	B8896				
1,2,4-Trichlorobenzene	177160-1	40 ug/l	79.0	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	73.5	35.0-105	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		7.21	30.0	B8896				
2,4,6-Trichlorophenol	177160-1	40 ug/l	84.2	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301	10	D
	177160-1	40 ug/l	77.8	50.0-115	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301	10	D
	Relative Percent Difference:		8.02	30.0	B8896				
Base/Neutral and Acid Compounds Surrogates:									
2-Fluorobiphenyl	177160-1	40 ug/l	87.0	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	79.5	50.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
2-Fluorophenol	177160-1	40 ug/l	69.5	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	64.5	20.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
Nitrobenzene-D5	177160-1	40 ug/l	89.2	40.0-110	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	83.0	40.0-110	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
Terphenyl-D14	177160-1	40 ug/l	103	50.0-135	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	91.8	50.0-135	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
2,4,6-Tribromophenol	177160-1	40 ug/l	83.2	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2012 by 301		
	177160-1	40 ug/l	76.0	40.0-125	B8896	08Apr14 1122 by 306	08Apr14 2047 by 301		
Volatile Organic Compounds									
Acrolein	177253-1	100 ug/l	84.0	35.9-146	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Acrylonitrile	177253-1	100 ug/l	101	44.6-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Benzene	177253-1	20 ug/l	105	80.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Bromodichloromethane	177253-1	20 ug/l	103	75.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Bromoform	177253-1	20 ug/l	99.6	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Bromomethane	177253-1	20 ug/l	110	30.0-145	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Carbon tetrachloride	177253-1	20 ug/l	109	65.0-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chlorobenzene	177253-1	20 ug/l	107	80.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chloroethane	177253-1	20 ug/l	120	60.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
2-Chloroethyl vinyl ether	177253-1	40 ug/l	60.8	58.2-122	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chloroform	177253-1	20 ug/l	110	65.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Chloromethane	177253-1	20 ug/l	106	40.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Dibromochloromethane	177253-1	20 ug/l	104	60.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,2-Dichlorobenzene	177253-1	20 ug/l	106	70.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,3-Dichlorobenzene	177253-1	20 ug/l	109	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,4-Dichlorobenzene	177253-1	20 ug/l	108	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1-Dichloroethane	177253-1	20 ug/l	111	70.0-135	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D

City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Volatile Organic Compounds (Continued)									
1,2-Dichloroethane	177253-1	20 ug/l	104	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1-Dichloroethene	177253-1	20 ug/l	118	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
trans-1,2-Dichloroethene	177253-1	20 ug/l	115	60.0-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,2-Dichloropropane	177253-1	20 ug/l	103	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,3-Dichloropropylene	177253-1	20 ug/l	102	70.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Ethylbenzene	177253-1	20 ug/l	104	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Methylene chloride	177253-1	20 ug/l	106	55.0-140	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1,2,2-Tetrachloroethane	177253-1	20 ug/l	104	65.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Tetrachloroethene	177253-1	20 ug/l	113	45.0-150	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Toluene	177253-1	20 ug/l	104	75.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1,1-Trichloroethane	177253-1	20 ug/l	111	65.0-130	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
1,1,2-Trichloroethane	177253-1	20 ug/l	103	75.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Trichloroethene	177253-1	20 ug/l	106	70.0-125	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Vinyl chloride	177253-1	20 ug/l	118	50.0-145	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Volatile Organic Compounds Surrogates:									
4-Bromofluorobenzene	177253-1	50 ug/l	99.2	75.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Dibromofluoromethane	177253-1	50 ug/l	105	85.0-115	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Toluene-D8	177253-1	50 ug/l	101	85.0-120	V8491	08Apr14 1014 by 301	08Apr14 1206 by 301	100	D
Organochlorine Pesticides and PCBs									
Aldrin	177253-1	10 ug/l	66.0	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	60.7	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		8.37	30.0	G9659				
alpha-BHC	177253-1	10 ug/l	67.8	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	63.8	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.08	30.0	G9659				
alpha-Endosulfan	177253-1	10 ug/l	82.2	50.0-110	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	78.5	50.0-110	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		4.60	30.0	G9659				
beta-BHC	177253-1	10 ug/l	65.1	65.0-125	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	65.3	65.0-125	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		0.307	30.0	G9659				
beta-Endosulfan	177253-1	10 ug/l	100	30.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	85.5	30.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		15.7	30.0	G9659				
Chlorpyrifos	177253-1	10 ug/l	93.5	47.9-138	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	78.0	47.9-138	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		18.1	25.6	G9659				
4,4'-DDD	177253-1	10 ug/l	97.8	25.0-150	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	88.0	25.0-150	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		10.5	30.0	G9659				
4,4'-DDE	177253-1	10 ug/l	66.5	35.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	62.5	35.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.20	30.0	G9659				



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
4,4'-DDT	177253-1	10 ug/l	109	45.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	107	45.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		2.22	30.0	G9659				
delta-BHC	177253-1	10 ug/l	68.4	45.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	64.2	45.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.33	30.0	G9659				
Dieldrin	177253-1	10 ug/l	94.9	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	88.6	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		6.87	30.0	G9659				
Endosulfan sulfate	177253-1	10 ug/l	81.6	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	79.5	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		2.61	30.0	G9659				
Endrin	177253-1	10 ug/l	85.9	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	79.5	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		7.74	30.0	G9659				
Endrin aldehyde	177253-1	10 ug/l	96.8	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	89.9	55.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		7.39	30.0	G9659				
gamma-BHC	177253-1	10 ug/l	66.8	25.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	63.2	25.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		5.54	30.0	G9659				
Heptachlor	177253-1	10 ug/l	59.9	40.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	58.7	40.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		2.02	30.0	G9659				
Heptachlor epoxide	177253-1	10 ug/l	65.1	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306	10	D
	177253-1	10 ug/l	62.0	60.0-130	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306	10	D
	Relative Percent Difference:		4.88	30.0	G9659				
Organochlorine Pesticides and PCBs Surrogates:									
Decachlorobiphenyl	177253-1	20 ug/l	88.0	30.0-135	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306		
	177253-1	20 ug/l	76.2	30.0-135	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306		
Tetrachloro-m-xylene	177253-1	20 ug/l	89.6	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1617 by 306		
	177253-1	20 ug/l	78.8	25.0-140	G9659	08Apr14 1411 by 306	08Apr14 1629 by 306		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W47271-1	09Apr14 0739 by 308	09Apr14 1040 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W47273-1	09Apr14 0804 by 308	09Apr14 1127 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Arsenic	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Copper	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Lead	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Nickel	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Thallium	< 0.001 mg/l	0.001	0.001	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S36576-1	08Apr14 1041 by 285	08Apr14 1312 by 305	

Base/Neutral and Acid Compounds

Acenaphthene	< 0.83 ug/l	0.83	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Acenaphthylene	< 0.79 ug/l	0.79	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Anthracene	< 1.5 ug/l	1.5	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzidine	< 14 ug/l	14	25	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(a)anthracene	< 0.75 ug/l	0.75	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(a)pyrene	< 0.63 ug/l	0.63	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(g,h,i)perylene	< 0.79 ug/l	0.79	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Benzo(k)fluoranthene	< 1.6 ug/l	1.6	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
3,4-Benzofluoranthene	< 1.4 ug/l	1.4	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-chloroethoxy)methane	< 0.80 ug/l	0.80	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-chloroethyl)ether	< 0.88 ug/l	0.88	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-chloroisopropyl)ether	< 0.94 ug/l	0.94	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Bis(2-ethylhexyl)phthalate	< 3.8 ug/l	3.8	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4-Bromophenyl phenyl ether	< 1.2 ug/l	1.2	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Butylbenzyl phthalate	< 1.5 ug/l	1.5	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Chloronaphthalene	< 0.84 ug/l	0.84	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Chlorophenol	< 2.1 ug/l	2.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4-Chlorophenyl phenyl ether	< 0.96 ug/l	0.96	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Chrysene	< 0.83 ug/l	0.83	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Di-n-butyl phthalate	< 1.1 ug/l	1.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Di-n-octyl phthalate	< 0.70 ug/l	0.70	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Dibenz(a,h)anthracene	< 1.2 ug/l	1.2	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
3,3'-Dichlorobenzidine	< 4.9 ug/l	4.9	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dichlorophenol	< 0.51 ug/l	0.51	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Diethyl phthalate	< 0.85 ug/l	0.85	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Dimethyl phthalate	< 0.93 ug/l	0.93	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dimethylphenol	< 0.79 ug/l	0.79	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4,6-Dinitro-o-cresol	< 0.75 ug/l	0.75	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dinitrophenol	< 0.74 ug/l	0.74	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4-Dinitrotoluene	< 0.51 ug/l	0.51	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,6-Dinitrotoluene	< 0.83 ug/l	0.83	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
1,2-Diphenylhydrazine	< 0.60 ug/l	0.60	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Fluorene	< 0.99 ug/l	0.99	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachlorobenzene	< 1.1 ug/l	1.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Base/Neutral and Acid Compounds							
Hexachlorobutadiene	< 0.71 ug/l	0.71	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachlorocyclopentadiene	< 0.74 ug/l	0.74	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Hexachloroethane	< 0.73 ug/l	0.73	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Indeno(1,2,3-cd)pyrene	< 1.2 ug/l	1.2	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Isophorone	< 0.90 ug/l	0.90	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
n-Nitrosodi-n-propylamine	< 0.90 ug/l	0.90	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
n-Nitrosodimethylamine	< 2.5 ug/l	2.5	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
n-Nitrosodiphenylamine	< 1.1 ug/l	1.1	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	R
Naphthalene	< 0.87 ug/l	0.87	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Nitrobenzene	< 0.85 ug/l	0.85	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Nitrophenol	< 0.82 ug/l	0.82	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
4-Nitrophenol	< 0.70 ug/l	0.70	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
p-Chloro-m-cresol	< 1.7 ug/l	1.7	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Pentachlorophenol	< 0.94 ug/l	0.94	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Phenanthrene	< 0.93 ug/l	0.93	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Phenol	< 2.6 ug/l	2.6	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Pyrene	< 0.56 ug/l	0.56	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
1,2,4-Trichlorobenzene	< 0.87 ug/l	0.87	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4,6-Trichlorophenol	< 1.4 ug/l	1.4	5.0	B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Base/Neutral and Acid Compounds Surrogates:							
2-Fluorobiphenyl (50.0-110%)	94.8 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2-Fluorophenol (20.0-110%)	69.2 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Nitrobenzene-D5 (40.0-110%)	90.8 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Terphenyl-D14 (50.0-135%)	106 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
2,4,6-Tribromophenol (40.0-125%)	92.5 %			B8896-1	08Apr14 1122 by 306	08Apr14 1900 by 301	
Volatile Organic Compounds							
Acrolein	< 0.78 ug/l	0.78	25	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Acrylonitrile	< 0.63 ug/l	0.63	25	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Benzene	< 0.12 ug/l	0.12	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Bromoform	< 0.26 ug/l	0.26	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Carbon tetrachloride	< 0.21 ug/l	0.21	2.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chlorobenzene	< 0.11 ug/l	0.11	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chlorodibromomethane	< 0.11 ug/l	0.11	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chloroethane	< 0.35 ug/l	0.35	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
2-Chloroethyl vinyl ether	< 0.24 ug/l	0.24	10	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Chloroform	< 0.16 ug/l	0.16	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,2-Dichlorobenzene	< 0.17 ug/l	0.17	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,3-Dichlorobenzene	< 0.14 ug/l	0.14	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,4-Dichlorobenzene	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Dichlorobromomethane	< 0.17 ug/l	0.17	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1-Dichloroethane	< 0.15 ug/l	0.15	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,2-Dichloroethane	< 0.21 ug/l	0.21	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1-Dichloroethylene	< 0.24 ug/l	0.24	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
trans-1,2-Dichloroethylene	< 0.20 ug/l	0.20	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,2-Dichloropropane	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,3-Dichloropropylene	< 0.20 ug/l	0.20	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Ethylbenzene	< 0.12 ug/l	0.12	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Methyl bromide(Bromomethane)	< 0.16 ug/l	0.16	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Methyl chloride(Chloromethane)	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	

City of Fort Smith
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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Volatile Organic Compounds							
Methylene chloride	< 0.25 ug/l	0.25	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1,2,2-Tetrachloroethane	< 0.20 ug/l	0.20	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Tetrachloroethylene	< 0.18 ug/l	0.18	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Toluene	< 0.16 ug/l	0.16	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1,1-Trichloroethane	< 0.13 ug/l	0.13	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
1,1,2-Trichloroethane	< 0.19 ug/l	0.19	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Trichloroethylene	< 0.22 ug/l	0.22	5.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Vinyl chloride	< 0.47 ug/l	0.47	2.0	V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Volatile Organic Compounds Surrogates:							
4-Bromofluorobenzene (75.0-120%)	95.6 %			V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Dibromofluoromethane (85.0-115%)	107 %			V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Toluene-D8 (85.0-120%)	101 %			V8491-1	08Apr14 1014 by 301	08Apr14 1323 by 301	
Organochlorine Pesticides and PCBs							
Aldrin	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
alpha-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
alpha-Endosulfan	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
beta-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
beta-Endosulfan	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Chlordane	< 0.10 ug/l	0.10	0.10	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Chlorpyrifos	< 0.0050 ug/l	0.0050	0.050	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
4,4'-DDD	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
4,4'-DDE	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
4,4'-DDT	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
delta-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Dieldrin	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Endosulfan sulfate	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Endrin	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Endrin aldehyde	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
gamma-BHC	< 0.0050 ug/l	0.0050	0.020	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Heptachlor	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Heptachlor epoxide	< 0.0050 ug/l	0.0050	0.010	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1016	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1221	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1232	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1242	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1248	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1254	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
PCB 1260	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Toxaphene	< 0.20 ug/l	0.20	0.20	G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Organochlorine Pesticides and PCBs Surrogates:							
Decachlorobiphenyl (30.0-135%)	72.6 %			G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	
Tetrachloro-m-xylene (25.0-140%)	96.2 %			G9659-1	08Apr14 1411 by 306	08Apr14 1554 by 306	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>City of Ft. Smith</u>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED ¹										AIC CONTROL NO: <u>177260</u>	
Project Reference: <u>Massard Table IV/III Priority Pollutants</u>			SAMPLE MATRIX			T. Cyanide	Pesticides	BNA-625	Pest-608	VOA-624	SP. Metals	M ₀	AIC PROPOSAL NO:				
Project Manager: <u>Lance McAvey</u>			WATER	SOIL	Carrier/Tracking No. <u>Fed-X</u>												
Sampled By: <u>Chris Cooper Amber Parker</u>					G R A B	C O M P	Received Temperature C <u>1.3</u>										
AIC No.	Sample Identification	Date/Time Collected														Remarks	
1	Massard Effluent	4/7/14 1432	X		X												
1	Massard Effluent	4/7/14 1435	X		X												
1	Massard Effluent	4/7/14 1432	X		X			X									
1	Massard Effluent	4/7/14 1433	X		X			X									
1	Massard Effluent	4/7/14 1437	X		X			X									
1	Massard Effluent	4/7/14 1435	X		X			X		X							
Container Type															Field pH calibration		
Preservative															on _____ @ _____		
G = Glass NO = none			P = Plastic S = Sulfuric acid pH2			V = VOA vials N = Nitric acid pH2			H = HCl to pH2 B = NaOH to pH12			T = Sodium Thiosulfate Z = Zinc acetate					
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS						Relinquished By: <u>Chris Cooper</u>		Date/Time: <u>4/7/14 1545</u>		Received By:		Date/Time:					
Expedited results requested by: _____						Relinquished By:		Date/Time:		Received in Lab By: <u>Amber Parker</u>		Date/Time: <u>4-8-14 0900</u>					
Who should AIC contact with questions: <u>Lance McAvey</u>						Comments: ¹ Required Reporting Limit for Metals must be identified on back of COC.											
Phone: <u>479-784-2337</u> Fax: _____						<u>Fed Ex Tracking # 8024 7206 7472</u>											
Report Attention to: <u>Lance McAvey</u>																	
Report Address to: _____																	

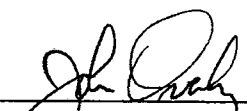


City of Fort Smith
ATTN: Mr. Lance McAvoy
3900 Kelley Highway
Fort Smith, AR 72904

This report contains the analytical results and supporting information for samples submitted on April 8, 2014. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: City of Fort Smith
ATTN: Mr. Lance McAvoy
lmcavoy@fortsmithar.gov

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

SAMPLE INFORMATION

Project Description:

Two (2) water sample(s) received on April 8, 2014
Massard Table II / III Priority Pollutants (HG)

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.
Ice chest #1 was delivered with shipping documentation.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
177261-1	Massard Influent 4/7/14 0933	07-Apr-2014 0933	
177261-2	Massard Effluent 4/7/14 1433	07-Apr-2014 1433	

Qualifiers:

D Result is from a secondary dilution factor

References:

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
"Standard Methods for the Examination of Water and Wastewaters", 21st edition.
"American Society for Testing and Materials" (ASTM).
"Association of Analytical Chemists" (AOAC).



City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

ANALYTICAL RESULTS

AIC No. 177261-1

Sample Identification: Massard Influent 4/7/14 0933

Analyte	Result	RL	Units	Qualifier
Mercury, low level EPA 245.7	0.23	0.050	ug/l	D
Prep: 11-Apr-2014 0851 by 311	Analyzed: 11-Apr-2014 1100 by 311		Batch: S36604	Dil: 10

AIC No. 177261-2

Sample Identification: Massard Effluent 4/7/14 1433

Analyte	Result	RL	Units	Qualifier
Mercury, low level EPA 245.7	0.013	0.0050	ug/l	
Prep: 11-Apr-2014 0851 by 311	Analyzed: 11-Apr-2014 1031 by 311		Batch: S36604	



City of Fort Smith
 3900 Kelley Highway
 Fort Smith, AR 72904

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Mercury, low level	0.01 ug/l	98.5	76.0-113			S36604	11Apr14 0851 by 311	11Apr14 0935 by 311		

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Mercury, low level	177363-3	0.01 ug/l	101	63.0-111	S36604	11Apr14 0851 by 311	11Apr14 0940 by 311		
	177363-3	0.01 ug/l	105	63.0-111	S36604	11Apr14 0851 by 311	11Apr14 0945 by 311		
	Relative Percent Difference:		3.17	18.0	S36604				

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Mercury, low level	< 0.0018 ug/l	0.0018	0.0050	S36604-1	11Apr14 0851 by 311	11Apr14 0925 by 311	


CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: <u>City of Fort Smith</u>			PO No.		NO OF BOTTLES	ANALYSES REQUESTED ¹										AIC CONTROL NO: <u>177261</u>			
Project Reference: <u>Massard Table IV/III Priority Pollutants (Hg)</u>			SAMPLE MATRIX			6											AIC PROPOSAL NO:		
Project Manager: <u>Lance McAvoy</u>			WATER SOIL														Carrier/Tracking No. <u>Fed-X</u>		
Sampled By: <u>Chris Cooper</u>			GRAB	COMP	WATER	SOIL	NO OF BOTTLES											Received Temperature C <u>1.3</u>	
AIC No.	Sample Identification	Date/Time Collected																Remarks	
1	MASSARD Influent	4/7/14 0933	X		X		1												
2	Massard Effluent	4/7/14 1433	X		X		1												
Container Type			Preservative		6												Field pH calibration on _____ @ _____ Buffer:		
G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate			NO = none S = Sulfuric acid pH2 N = Nitric acid pH2 B = NaOH to pH12 Z = Zinc acetate																
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS							Relinquished By: <u>Chris Cooper</u>		Date/Time: <u>4/7/14 1545</u>		Received By:		Date/Time						
Expedited results requested by: _____							Relinquished By:		Date/Time		Received in Lab By: <u>Lisa Hopton</u>		Date/Time: <u>4-8-14 0900</u>						
Who should AIC contact with questions: <u>Lance McAvoy</u>							Comments: <u>Analyze using EPA method 245.7</u>							Required Reporting Limit for Metals must be identified on back of COC.					
Phone: <u>479-784-2337</u> Fax: _____																			
Report Attention to: <u>Lance McAvoy</u>																			
Report Address to: _____																			

FED Ex Tracking # 8024 7206 7472

INTER-OFFICE MEMO

TO: Steve Floyd, Superintendent of Water and Wastewater Operations

FROM: Don Clover, Biologist 

DATE: May 1, 2014

RE: Biomonitoring Results - Massard Plant

Please find below the chronic biomonitoring results for the second quarter of 2014. Lethal and sub-lethal toxicity were not experienced in the low-flow dilution of 8% effluent for the *Ceriodaphnia dubia* test organism. The test therefore passes at the low-flow dilution of 8% effluent for lethal and sub-lethal effects. Lethal and sub-lethal toxicity were not experienced in the low-flow dilution of 8% effluent for the fathead minnow (*Pimephales promelas*) test. The test therefore passes at the low-flow dilution of 8% effluent for lethal and sub-lethal effects.

Parameter #TGP3B- 0

Parameter #TGP6C- 0

Parameter #TLP3B- 0

Parameter #TLP6C- 0

Parameter #TOP3B- 11%

Parameter # TOP6C- 11%

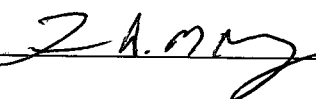
Parameter #TPP3B- 11%

Parameter #TPP6C- 11%

Parameter #TQP3B- 11.58%

Parameter #TQP6C- 14.43%

Prepared By:  Date: 5/1/2014

Reviewed By:  Date: 05/05/2014

April 21, 2014

RECEIVED

APR 25 2014

WATER/WASTEWATER

Lance McAvoy
City of Fort Smith
3900 Kelley Hwy.
Fort Smith, AR 72904

RE: Project: MASSARD BIOMONITORING
Pace Project No.: 60166560

Dear Lance McAvoy:

Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Alice Flanagan
alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Dan Clover, City of Fort Smith, AR



REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: MASSARD BIOMONITORING
Pace Project No.: 60166560

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166560001	MASSARD EFFLUENT	Water	04/07/14 08:00	04/08/14 14:15

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MASSARD BIOMONITORING
Pace Project No.: 60166560

Sample: MASSARD EFFLUENT	Lab ID: 60166560001	Collected: 04/07/14 08:00	Received: 04/08/14 14:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chronic Toxicity	Analytical Method: EPA 821/R-02/013							
Toxicity, Chronic	Complete		1.0	1		04/08/14 14:30		

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Date: 04/21/2014 03:23 PM



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MASSARD BIOMONITORING
Pace Project No.: 60166560

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166560001	MASSARD EFFLUENT	EPA 821/R-02/013	BIO/1704		

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Date: 04/21/2014 03:23 PM



REFERENCE #60166560

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

April 17, 2014

Lance McAvoy
City of Fort Smith (Massard)
3900 Kelley HWY
Fort Smith , AR 72904

Re: Lab Project Number: 60166560
Client Project ID: Wet Test

Dear:

Enclosed are the analytical results for sample(s) received by the laboratory. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any question concerning this report, please feel free to contact me.

Sincerely,

Tim Harrell
Tim.Harrell@pacelabs.com
Technical Director

REPORT OF LABORATORY ANALYSIS

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REFERENCE #60166560

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

**CHRONIC TOXICITY TEST FOR
CITY OF FORT SMITH (Massard)**

PERMIT # AR 0021750
AFIN # 66-00226

PERFORMED ON:

Pimephales promelas

and

Ceriodaphnia dubia

PREPARED FOR:

Lance McAvoy
City of Fort Smith (Massard)
3900 Kelley HWY
Fort Smith, AR 72904

PREPARED BY:
Pace Analytical Services, Inc.
808 West McKay
Frontenac, KS 66763
1-620-235-0003

April 17, 2014

REPORT OF LABORATORY ANALYSIS

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
SUMMARY	1
INTRODUCTION	2
TEST MATERIAL	2
TEST METHODS	2
TEST ORGANISMS	2
RESULTS	3
TEST CONDITIONS	8
TEST VALIDITY	16
CONCLUSIONS	16
APPENDIX A – STATISTICAL ANALYSIS	
APPENDIX B - CHAIN OF CUSTODY FORMS	
APPENDIX C – REFERENCE TOXICANT SUMMARY	
APPENDIX D – State Agency Forms	

REPORT OF LABORATORY ANALYSIS

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SUMMARY

A Chronic Whole Effluent Toxicity Test using the 7-day chronic fathead minnows (*Pimephales promelas*), static renewal larval survival and growth test, and three brood 7-day chronic Cladoceran (*Ceriodaphnia dubia*), static renewal survival and reproduction test, was conducted on effluent discharge water collected at the CITY OF FORT SMITH (Massard) effluent discharge from April 7, 2014 to April 11, 2014. All the test methods followed are as listed in EPA 821-R-02-013, "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms."

Statistically significant ($p < 0.05$) mortality is determined by Dunnet's procedure using average percent survival of each test concentration versus the average survival of the controls. If significant mortality occurs, median lethal concentrations (LC50) are calculated using effluent concentrations and their corresponding percent mortality data. The LC50's and the 95% confidence intervals are calculated where appropriate by the Spearman-Kärber method. Statistical analysis is accomplished by following steps in EPA 821-R-02-013, November 2002 and by use of Toxstat version 3.4.

In minnow section of testing, it was observed that the effluent had no significant effect on the survival of the larvae at the 11% concentration. No significant mortality was observed in the other effluent concentrations after the 7-day exposure period. The No Observed Effect Concentration (NOEC) was determined to be 11% for survival. The LC50 was estimated to be >11% effluent. No significant reduction in growth was observed in the 11% effluent concentration. The Toxic Units is <1. The IC25 is >11. The NOEC for growth in effluent was determined to be 11%. The PMSD is 15.7.

In Cladoceran section of testing, it was observed that the effluent had no significant effect on the survival of the organisms in the 11% effluent concentration. No significant mortality was observed in the other effluent concentrations after the 7-day exposure period. The No Observed Effect Concentration (NOEC) was determined to be 11% for survival. The LC50 was estimated to be >11% effluent. No significant reduction in reproduction was observed in the 11% effluent concentrations. The Toxic Units is <1. The IC25 is >11. The NOEC for reproduction in effluent was determined to be 11%. The PMSD is 14.1.

The chronic toxicity exhibited by the fathead minnows and the *Ceriodaphnia* treated by the effluent sampled from April 7 to April 11 from the CITY OF FORT SMITH (Massard) effluent discharge, is acceptable as described in EPA 821-R-02-013.

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INTRODUCTION

Pace Analytical was contracted to perform this chronic toxicity test on effluent from the CITY OF FORT SMITH (Massard) effluent discharge. Chronic toxicity was measured using the Pimephales promelas at larval for survival and growth test and the Ceriodaphnia dubia survival and reproduction test described in EPA 821-R-02-013, "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The raw data of the study is stored at Pace Analytical Services, INC. 808 West McKay, Frontenac, KS 66763.

TEST MATERIAL

City of Fort Smith (Massard) personnel collected sampling of the effluent. A sample of the effluent was delivered to Pace by commercial carrier on 4-8-14. Subsequent samples followed by delivery on 4-10-14 and on 4-12-14. All samples were stored at $\leq 6^{\circ}$ Celsius. Moderately Hard Synthetic Water was used as a control and also to make the required dilutions in the test as described in EPA 821-R-02-013.

TEST METHODS

Pace used EPA test method 1000.0 for conducting the Fathead Minnow, Pimephales promelas, Larval Survival and Growth Test. EPA test method 1002.0 was used for conducting the Cladoceran, Ceriodaphnia dubia, Survival and Reproduction Test. The tests were conducted to estimate the LC50, NOEC, and LOEC for survival, growth, and reproduction of these test species.

The Pimephales and Ceriodaphnia tests were initiated on 4-8-14 and carried out until 4-15-14. The Pimephales tests were conducted in 500 ml plastic jars with 250 ml of test solution. Eight larvae were placed in each of at least 5 replicates to make a total of 40 larvae per sample concentration. The Ceriodaphnia tests were carried out in 35ml vials containing 25 ml of test solution. One Neonate was placed in each of 10 replicates to make a total of 10 neonates per sample concentration.

TEST ORGANISMS

Organisms used in these tests were cultured at Pace under-controlled temperature and photo period conditions and/or were purchased from an external supplier. Pace maintains records of culture techniques for all organisms, whether produced in house or purchased.

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RESULTS

REPORT OF LABORATORY ANALYSIS

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Permittee: CITY OF FORT SMITH (Massard) Effluent discharge.

FATHEAD MINNOW SURVIVAL

Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV %
	A	B	C	D	E	24hr	48hr	7 day	
Control 0%	100	100	100	87.5	87.5	100	100	95	5.99
Dilution 1 3%	100	100	100	100	100	100	100	100	0.00
Dilution 2 5%	87.5	87.5	100	100	100	100	100	95	5.99
Dilution 3 6%	100	100	100	100	100	100	100	100	0.00
Dilution 4 8%	100	100	100	100	87.5	100	100	97.5	4.79
Dilution 5 11%	100	100	100	87.5	100	100	100	97.5	4.79

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FORT SMITH (Massard) Effluent discharge.

CERIODAPHNIA SURVIVAL AND REPRODUCTION

DATA TABLE FOR CERIODAPHNIA YOUNG PRODUCTION

Replicate	Control 0%	Dilution 1 3%	Dilution 2 5%	Dilution 3 6%	Dilution 3 8%	Dilution 4 11%
1	21	23	18	16	22	23
2	20	17	22	21	21	20
3	18	21	22	25	22	22
4	17	16	18	24	17	22
5	18	23	24	20	22	23
6	22	24	24	18	23	22
7	18	24	18	21	24	27
8	23	20	21	22	22	15
9	22	19	17	23	20	23
10	17	20	21	22	21	16
Mean	19.6	20.7	20.5	21.2	21.4	21.3
SD	2.271	2.830	2.593	2.700	1.897	3.529
CV %	11.58	13.67	12.65	12.73	8.87	16.57

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Permittee: CITY OF FORT SMITH (Massard) Effluent discharge.

CERIODAPHNIA MEAN PERCENT SURVIVAL

Percent Effluent (%)						
Time Elapsed	Control 0%	Dilution 1 3%	Dilution 2 5%	Dilution 3 6%	Dilution 4 8%	Dilution 5 11%
24 hrs	100	100	100	100	100	100
48 hrs	100	100	100	100	100	100
7-day	100	100	100	100	100	100
SD	0.0	0.0	0.0	0.0	0.0	0.0
CV %	0.0	0.0	0.0	0.0	0.0	0.0

REPORT OF LABORATORY ANALYSIS

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TABLE 2
SUMMARY OF TEST CONDITIONS FOR THE FATHEAD MINNOW
(*Pimephales promelas*) LARVAL SURVIVAL AND GROWTH TEST

1. Test type	Static renewal
2. Temperature	25 degrees Celsius
3. Light quality	Ambient laboratory light
4. Light intensity	Ambient laboratory levels
5. Photoperiod	16 hr light, 8 hr dark
6. Test chamber size	500 ml
7. Test solution volume	250 ml
8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10. No. larvae/chamber	8
11. No. replicates/concentration	5
12. No. larvae/concentration	40
13. Feeding regime	Feed 0.1 ml newly hatched brine shrimp nauplii three times daily. Larvae are not fed 12 hours prior to termination of test.
14. Cleaning	Siphon daily, immediately before test solution renewal
15. Aeration	None

REPORT OF LABORATORY ANALYSIS

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TABLE 2 (CONT.)

16. Dilution Water	Moderately Hard Synthetic Water prepared with MILLI-Q deionized water and reagent grade chemicals
17. Effluent concentrations	0%, 3%, 5%, 6%, 8%, 11%
18. Test duration	7 days
19. Endpoints	Survival and growth
20. Test acceptability	80% or greater survival in the controls, Average dry weight in controls >0.25 mg, Coefficient of variation in the control must not exceed 40%.

TABLE 2 (CONT.)

**SUMMARY OF TEST CONDITIONS FOR THE CLADOCERAN
(Ceriodaphnia dubia) SURVIVAL AND REPRODUCTION TEST**

1. Test type	Static renewal
2. Temperature	25 degrees Celsius
3. Light quality	Ambient laboratory light
4. Light intensity	Ambient laboratory levels
5. Photoperiod	16 hr light, 8 hr dark
6. Test chamber size	30 ml
7. Test solution volume	25 ml

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TABLE 2 (CONT.)

8. Renewal of test concentrations	Daily
9. Age of test organism	< 24 hours
10. No. larvae/chamber	1
11. No. replicates/concentration	10
12. No. larvae/concentration	10
13. Feeding regime	Feed 0.1 ml YCT three times daily. Larvae are not fed 12 hours prior to termination of test.
14. Cleaning	Siphon daily, immediately before test solution renewal
15. Aeration	None
16. Dilution Water	Moderately Hard Synthetic Water prepared with MILLI-Q deionized water and reagent grade chemicals
17. Effluent concentrations	0%, 3%, 5%, 6%, 8%, 11%
18. Test duration	Until 60% or more surviving control females have three broods or a maximum of 8 days.
19. Endpoints	Survival and Reproduction
20. Test acceptability	80% or greater survival in the controls, Average reproduction rate of 15 young / adult. Coefficient of variation in the control must not exceed 40%.

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TABLE 2 (SECTION 2)

**BIOMONITORING CHRONIC TOXICITY REPORT
FATHEAD MINNOW (Pimephales promelas)
CHEMICAL PARAMETERS CHART**

Permittee: CITY OF FORT SMITH (Massard). Effluent discharge.

ANALYSTS: Pace Analytical Services, Inc.
Timothy Harrell
Mike Bollin

SAMPLE NO. 1 COLLECTED: DATE: 4-7-14

SAMPLE NO. 2 COLLECTED: DATE: 4-9-14

SAMPLE NO. 3 COLLECTED: DATE: 4-11-14

**TABLE 2 (SECTION 2)
INITIAL WATER QUALITY
EFFLUENT CONCENTRATION**

	Control	100%
PH	7.50	7.52
D.O.	8.40	8.60
Temp	25.0	25.0
Alk	64	122
Hard	92	82
Cond	362	538
Chlorine	<0.1	<0.1

- * D.O. is reported as mg/L
- Alkalinity is reported as mg/L CaCO₃
- Hardness is reported as mg/L CaCO₃
- Conductance is reported as umhos
- Chlorine is reported as mg/L

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TEST WATER QUALITY

24-Hour Water Quality Measurements

Effluent Concentration (%)	PH	D.O. (mg/l)	Temperature (C)
0% Control	7.79	7.60	25.1
3% Effluent	7.77	7.50	24.8
5% Effluent	7.76	7.40	24.8
6% Effluent	7.76	7.40	24.8
8% Effluent	7.75	7.30	24.8
11% Effluent	7.75	7.30	24.8

48-Hour Water Quality Measurements

Effluent Concentration (%)	PH	D.O. (mg/l)	Temperature (C)
0% Control	7.79	7.00	24.9
3% Effluent	7.79	7.00	25.2
5% Effluent	7.80	7.10	25.2
6% Effluent	7.80	7.10	25.2
8% Effluent	7.80	7.20	25.2
11% Effluent	7.81	7.20	25.2

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FINAL WATER QUALITY

EFFLUENT CONCENTRATION

	Control	11%
pH	7.70	7.74
D.O.	7.30	7.20
Temp	25.1	25.0
Alk	64	68
Hard	98	110
Cond	550	720

- * D.O. is reported as mg/L
- Alkalinity is reported as mg/L CaCO₃
- Hardness is reported as mg/L CaCO₃
- Conductance is reported as umhos

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TEST VALIDITY

The Pimephales promelas control survival rate was 95%. The mean dry weight (growth) of the Pimephales promelas was determined at 0.425 mg/organism in the controls. The percent coefficient of variation (%CV) values for the fathead minnow control for survival and growth were 5.99 and 14.43. The Ceriodaphnia dubia survival rates were 100 in the control. The Ceriodaphnia in the control produced an average of 19.6 young over the seven-day exposure period. Percent CV values for Ceriodaphnia dubia control survival and reproduction was 0.00 and 11.58. Control data met or exceeded all criteria set out by EPA 821-R-02-013 for test acceptance.

CONCLUSIONS

The No Observed Effect Concentration (NOEC) for Pimephales promelas was 11% for survival and 11% for growth. The No Observed Effect Concentration (NOEC) for Ceriodaphnia dubia was 11% for Survival and 11% for Reproduction. The tests were ran using a synthetic control against effluent concentrations of 3%, 5%, 6%, 8%, and 11%. The effluent sampled on 4-7-14, 4-9-14, and 4-11-14 exhibited acceptable chronic toxicity in Pimephales promelas and in Ceriodaphnia dubia during the exposure period as described in EPA 821-R-02-013.

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APPENDIX A STATISTICAL ANALYSIS

REPORT OF LABORATORY ANALYSIS

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60166560 Ft Smith FATHEAD SURVIVAL

File: 6166560A Transform: ARC SINE(SQUARE ROOT(Y))

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED	2.010	7.260	11.460	7.260	2.010
OBSERVED	2	4	18	6	0

Calculated Chi-Square goodness of fit test statistic = 7.4248

Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

60166560 Ft Smith FATHEAD SURVIVAL

File: 6166560A Transform: ARC SINE(SQUARE ROOT(Y))

Shapiro - Wilk's test for normality

D = 0.054

W = 0.814

Critical W (P = 0.05) (n = 30) = 0.927

Critical W (P = 0.01) (n = 30) = 0.900

Data FAIL normality test. Try another transformation.

Warning - The first three homogeneity tests are sensitive to non-normal data and should not be performed.

60166560 Ft Smith FATHEAD SURVIVAL

File: C:\TOXSTAT\6166560A. Transform: ARC SINE(SQUARE ROOT(Y))

Hartley's test for homogeneity of variance
Bartlett's test for homogeneity of variance

These two tests can not be performed because at least one group has zero variance.

Data FAIL to meet homogeneity of variance assumption.
Additional transformations are useless.

60166560 Ft Smith FATHEAD SURVIVAL

File: 6166560A

Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	5	0.991	1.107	1.061
2	3%	5	1.107	1.107	1.107
3	5%	5	0.991	1.107	1.061
4	6%	5	1.107	1.107	1.107
5	8%	5	0.991	1.107	1.084
6	11%	5	0.991	1.107	1.084

60166560 Ft Smith FATHEAD SURVIVAL

File: 6166560A

Transform: ARC SINE(SQUARE ROOT(Y))

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.004	0.064	0.028	5.99
2	3%	0.000	0.000	0.000	0.00
3	5%	0.004	0.064	0.028	5.99
4	6%	0.000	0.000	0.000	0.00
5	8%	0.003	0.052	0.023	4.79
6	11%	0.003	0.052	0.023	4.79

60166560 Ft Smith FATHEAD SURVIVAL

File: C:\TOXSTAT\6166560A.

Transform: ARC SINE(SQUARE ROOT(Y))

STEEL'S MANY-ONE RANK TEST

Ho: Control < Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	RANK SUM	CRIT. VALUE	df	SIG
1	CONTROL	1.061				
2	3%	1.107	32.50	16.00	5.00	
3	5%	1.061	27.50	16.00	5.00	
4	6%	1.107	32.50	16.00	5.00	
5	8%	1.084	30.00	16.00	5.00	
6	11%	1.084	30.00	16.00	5.00	

Critical values use $k = 5$, are 1 tailed, and $\alpha = 0.05$

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B

Transform: NO TRANSFORMATION

Shapiro - Wilk's test for normality

D = 0.048

W = 0.976

Critical W (P = 0.05) (n = 30) = 0.927

Critical W (P = 0.01) (n = 30) = 0.900

Data PASS normality test at P=0.01 level. Continue analysis.

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B Transform: NO TRANSFORMATION

Bartlett's test for homogeneity of variance

Calculated B1 statistic = 4.86

Table Chi-square value = 15.09 (alpha = 0.01, df = 5)

Table Chi-square value = 11.07 (alpha = 0.05, df = 5)

Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B

Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	5	0.342	0.497	0.425
2	3%	5	0.408	0.469	0.432
3	5%	5	0.342	0.497	0.419
4	6%	5	0.372	0.466	0.423
5	8%	5	0.362	0.450	0.407
6	11%	5	0.362	0.459	0.417

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B

Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.004	0.061	0.027	14.43
2	3%	0.001	0.023	0.010	5.36
3	5%	0.004	0.062	0.028	14.67
4	6%	0.001	0.038	0.017	9.02
5	8%	0.001	0.034	0.015	8.47
6	11%	0.001	0.036	0.016	8.59

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B

Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	0.002	0.000	0.176
Within (Error)	24	0.048	0.002	
Total	29	0.050		

Critical F value = 2.62 (0.05,5,24)

Since $F < \text{Critical } F$ FAIL TO REJECT H_0 : All equal

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B

Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 1 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	CONTROL	0.425	0.425		
2	3%	0.432	0.432	-0.240	
3	5%	0.419	0.419	0.205	
4	6%	0.423	0.423	0.085	
5	8%	0.407	0.407	0.636	
6	11%	0.417	0.417	0.297	

Dunnett table value = 2.36 (1 Tailed Value, P=0.05, df=24,5)

60166560 Ft Smith FATHEAD GROWTH

File: 6166560B

Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2

Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	5			
2	3%	5	0.067	15.7	-0.007
3	5%	5	0.067	15.7	0.006
4	6%	5	0.067	15.7	0.002
5	8%	5	0.067	15.7	0.018
6	11%	5	0.067	15.7	0.008

FISHER'S EXACT TEST

=====			
NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS

CONTROL	10	0	10
3%	10	0	10

TOTAL	20	0	20
=====			

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

=====			
NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS

CONTROL	10	0	10
5%	10	0	10

TOTAL	20	0	20
=====			

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

=====			
NUMBER OF			
IDENTIFICATION	ALIVE	DEAD	TOTAL ANIMALS

CONTROL	10	0	10
6%	10	0	10

TOTAL 20 0 20

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

IDENTIFICATION	NUMBER OF		
	ALIVE	DEAD	TOTAL ANIMALS
CONTROL	10	0	10
8%	10	0	10
TOTAL	20	0	20

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

FISHER'S EXACT TEST

IDENTIFICATION	NUMBER OF		
	ALIVE	DEAD	TOTAL ANIMALS
CONTROL	10	0	10
11%	10	0	10
TOTAL	20	0	20

CRITICAL FISHER'S VALUE (10,10,10) (p=0.05) IS 6. b VALUE IS 10.
 Since b is greater than 6 there is no significant difference
 between CONTROL and TREATMENT at the 0.05 level.

SUMMARY OF FISHER'S EXACT TESTS

NUMBER	NUMBER	SIG
--------	--------	-----

GRÓUP	IDENTIFICATION	EXPOSED	DEAD	(P= .05)
	CONTROL	10	0	
1	3%	10	0	
2	5%	10	0	
3	6%	10	0	
4	8%	10	0	
5	11%	10	0	

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
File: 6166560E Transform: NO TRANSFORMATION

Chi-square test for normality: actual and expected frequencies

INTERVAL	<-1.5	-1.5 to <-0.5	-0.5 to 0.5	>0.5 to 1.5	>1.5
EXPECTED	4.020	14.520	22.920	14.520	4.020
OBSERVED	5	13	24	17	1

Calculated Chi-Square goodness of fit test statistic = 3.1413
Table Chi-Square value (alpha = 0.01) = 13.277

Data PASS normality test. Continue analysis.

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
File: 6166560E Transform: NO TRANSFORMATION

Bartlett's test for homogeneity of variance
Calculated B1 statistic = 3.74

Table Chi-square value = 15.09 (alpha = 0.01, df = 5)
Table Chi-square value = 11.07 (alpha = 0.05, df = 5)

Data PASS B1 homogeneity test at 0.01 level. Continue analysis.

60166560 Ft Smith CERIODAPHNIA DUBIA SURVIVAL
File: 6166560D Transform: NO TRANSFORM

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	10	1.000	1.000	1.000
2	3%	10	1.000	1.000	1.000
3	5%	10	1.000	1.000	1.000
4	6%	10	1.000	1.000	1.000
5	8%	10	1.000	1.000	1.000
6	11%	10	1.000	1.000	1.000

60166560 Ft Smith CERIODAPHNIA DUBIA SURVIVAL
File: 6166560D Transform: NO TRANSFORM

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	0.000	0.000	0.000	0.00
2	3%	0.000	0.000	0.000	0.00
3	5%	0.000	0.000	0.000	0.00
4	6%	0.000	0.000	0.000	0.00
5	8%	0.000	0.000	0.000	0.00
6	11%	0.000	0.000	0.000	0.00

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
File: 6166560E Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 1 of 2

GRP	IDENTIFICATION	N	MIN	MAX	MEAN
1	CONTROL	10	17.000	23.000	19.600
2	3%	10	16.000	24.000	20.700
3	5%	10	17.000	24.000	20.500
4	6%	10	16.000	25.000	21.200
5	8%	10	17.000	24.000	21.400
6	11%	10	15.000	27.000	21.300

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
File: 6166560E Transform: NO TRANSFORMATION

SUMMARY STATISTICS ON TRANSFORMED DATA TABLE 2 of 2

GRP	IDENTIFICATION	VARIANCE	SD	SEM	C.V. %
1	CONTROL	5.156	2.271	0.718	11.58
2	3%	8.011	2.830	0.895	13.67
3	5%	6.722	2.593	0.820	12.65
4	6%	7.289	2.700	0.854	12.73
5	8%	3.600	1.897	0.600	8.87
6	11%	12.456	3.529	1.116	16.57

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
File: 6166560E Transform: NO TRANSFORMATION

ANOVA TABLE

SOURCE	DF	SS	MS	F
Between	5	23.083	4.617	0.641
Within (Error)	54	389.100	7.206	
Total	59	412.183		

Critical F value = 2.45 (0.05, 5, 40)
Since $F < \text{Critical } F$ FAIL TO REJECT H_0 : All equal

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
 File: 6166560E Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 1 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	TRANSFORMED MEAN	MEAN CALCULATED IN ORIGINAL UNITS	T STAT	SIG
1	CONTROL	19.600	19.600		
2	3%	20.700	20.700	-0.916	
3	5%	20.500	20.500	-0.750	
4	6%	21.200	21.200	-1.333	
5	8%	21.400	21.400	-1.499	
6	11%	21.300	21.300	-1.416	

Dunnett table value = 2.31 (1 Tailed Value, P=0.05, df=40,5)

60166560 Ft Smith CERIODAPHNIA DUBIA REPRODU
 File: 6166560E Transform: NO TRANSFORMATION

DUNNETT'S TEST - TABLE 2 OF 2 Ho:Control<Treatment

GROUP	IDENTIFICATION	NUM OF REPS	Minimum Sig Diff (IN ORIG. UNITS)	% of CONTROL	DIFFERENCE FROM CONTROL
1	CONTROL	10			
2	3%	10	2.773	14.1	-1.100
3	5%	10	2.773	14.1	-0.900
4	6%	10	2.773	14.1	-1.600
5	8%	10	2.773	14.1	-1.800
6	11%	10	2.773	14.1	-1.700

Conc. ID	1	2	3	4	5	6
Conc. Tested	0	3	5	6	8	11
Response 1	.438	.419	.342	.372	.384	.459
Response 2	.497	.428	.375	.466	.450	.433
Response 3	.462	.408	.497	.452	.417	.451
Response 4	.342	.436	.451	.424	.423	.362
Response 5	.384	.469	.432	.400	.362	.409

*** Inhibition Concentration Percentage Estimate ***

Toxicant/Effluent: Ft Smith

Test Start Date: 4/8/14 Test Ending Date: 4/15/14

Test Species: Fathead

Test Duration: 7 Day

DATA FILE:

Conc. ID	Number Replicates	Concentration	Response Means	Std. Dev.	Pooled Response Means
1	5	0.000	0.425	0.062	0.428
2	5	3.000	0.432	0.023	0.428
3	5	5.000	0.419	0.062	0.421
4	5	6.000	0.423	0.038	0.421
5	5	8.000	0.407	0.034	0.415
6	5	11.000	0.423	0.039	0.415

*** No Linear Interpolation Estimate can be calculated from the input data since none of the (possibly pooled) group response means were less than 75% of the control response mean.

Conc. ID	1	2	3	4	5	6
Conc. Tested	0	3	5	6	8	11
Response 1	21	23	18	16	22	23
Response 2	20	17	22	21	21	20
Response 3	18	21	22	25	22	22
Response 4	17	16	18	24	17	22
Response 5	18	23	24	20	22	23
Response 6	22	24	24	18	23	22
Response 7	18	24	18	21	24	27
Response 8	23	20	21	22	22	15
Response 9	22	19	17	23	20	23
Response 10	17	20	21	22	21	16

*** Inhibition Concentration Percentage Estimate ***

Toxicant/Effluent: Ft Smith

Test Start Date: 4/8/14 Test Ending Date: 4/15/14

Test Species: Fathead

Test Duration: 7 Day

DATA FILE:

Conc. ID	Number Replicates	Concentration	Response Means	Std. Dev.	Pooled Response Means
1	10	0.000	19.600	2.271	20.783
2	10	3.000	20.700	2.830	20.783
3	10	5.000	20.500	2.593	20.783
4	10	6.000	21.200	2.700	20.783
5	10	8.000	21.400	1.897	20.783
6	10	11.000	21.300	3.529	20.783

*** No Linear Interpolation Estimate can be calculated from the input data since none of the (possibly pooled) group response means were less than 75% of the control response mean.

APPENDIX B
CHAIN OF CUSTODY FORMS

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1
Company: City of Ft. Smith		Report To: Lance McAvoy		Attention: Lance McAvoy		1.795741
Address: 3900 Kelley Hwy Ft. Smith, AR 72904		Copy To:		Company Name: City of Ft. Smith		REGULATORY AGENCY
Email To:		Purchase Order No.:		Address: 3900 Kelley Hwy Ft. Smith, AR 72904		
Phone: 479-784-2337 Fax:		Project Name: Mussard Biomonitoring		Pace Quote Reference: 72904		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Requested Due Date/TAT:		Project Number:		Pace Project Manager:		<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
				Pace Profile #:		Site Location STATE: AR

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓							
					DATE	TIME	DATE	TIME																		
1	Mussard Effluent	DW	C	G	4/16/14	0800	4/17/14	0830	1																	
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

60166560

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
T.Cl ₂ = 0.05 mg/L F.Cl ₂ = 0.01 mg/L	Chris Cooper / City of Ft. Smith	4/17/14	1200	Jim Hanel / Pace	4/15/14	14:15	3.0	Y	Y	Y	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Chris Cooper					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY): 4/17/14					

Sample Condition Upon Receipt

WO#: 60166560



60166560

Client Name: F. Smith

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other:

Thermometer Used: T111 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun

Cooler Temperature: 3.0

(circle one)

Temperature should be above freezing to 6°C.

Date and initials of person examining contents: 4/8/14 17:15

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filled volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AAE Date: 4/9/14

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 1 of 1
1795740
REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER
Site Location: AR
STATE: AR

Company: City of Fort Smith
Address: 3900 Kelley Hwy Ft Smith, AR 72904
Phone: 479-784-2337
Report To: Lance McAvoy
Copy To:
Company Name: City of Fort Smith
Address: 3900 Kelley Hwy, Ft Smith, AR
Project Name: Massard Bromonitoring
Project Number:

Table with columns: ITEM #, Section D Required Client Information, Matrix Codes, SAMPLE ID, Matrix Code, SAMPLE TYPE, COLLECTED (COMPOSITE START/END), SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, Preservatives, Analysis: Test, Chronic Minnow, Chronic Ceriodaphnia, Residual Chlorine (Y/N), Pace Project No./ Lab I.D.

Table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS

ORIGINAL

Table for Sampler Name and Signature: Amber Parham, DATE Signed: 04/09/14, Temp in °C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 60 days

Sample Condition Upon Receipt

Client Name: F+S Smith

Optional
Proj Due Date
Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Pace Shipping Label Used? Yes No

Tracking #: _____
 Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T111
 Cooler Temperature: 1.6

Type of Ice: (circle one) Wet Blue None Samples received on ice, cooling process has begun

Date and initials of person examining contents: 4/10/11 19:30 TK

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses Matrix:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input type="checkbox"/> No	Lot # of added preservative
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Pace Trip Blank lot # (if purchased):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	18.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	19.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	20. List State:

Client Notification/ Resolution: _____ Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Sample Condition Upon Receipt

Client Name Ft Smith

Optional
Proj Due Date
Proj Name

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: T111

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun (circle one)

Cooler Temperature: 1.6

Date and initials of person examining contents: 4/12/14 MB 0800

Temperature should be above freezing to 6°C

Chain of Custody present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7
Sufficient volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8
Correct containers used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
Pace containers used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
Containers intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12
Sample labels match COC.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13
Includes date time/ID/analyses Matrix: <u>WT</u>		13
All containers needing preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14
All containers needing preservation are found to be in compliance with EPA recommendation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

APPENDIX C

REFERENCE TOXICANTS SUMMARY

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

The absence of significant control mortality during this test indicated the health of the organisms and indicated that any significant mortality in the test concentrations was not due to contaminants or variations in testing conditions.

Reference toxicity testing is routinely performed by staff members in our biomonitoring - bioassay laboratory.

Start: 3/25/14 12:00 End: 4/1/14 11:30

Reference Toxicant (NaCl) Pimephales promelas

Concentration of Toxicant	Avg. # of Live Organisms/replicate			
	0 hrs	24 hrs	48 hrs	7 days
10 g/l	40	10	1	0
8 g/l	40	33	24	5
6 g/l	40	38	34	23
4 g/l	40	40	40	39
2 g/l	40	40	40	40

IC25 (4.88 g/l Sodium Chloride)

Survival NOEC: 4.0 g/l

Reference Toxicant (NaCl) Ceriodaphnia Dubia

Concentration of Toxicant	Avg. # of Live Organisms/replicate			
	0 hrs	24 hrs	48 hrs	7 days
2.5 g/l	10	6	0	0
2.0 g/l	10	10	8	2
1.5 g/l	10	10	10	10
1.0 g/l	10	10	10	10
0.5 g/l	10	10	10	10

IC25 (1.13 g/l Sodium Chloride)

Survival NOEC: 1.5 g/l

Submitted By: 
Timothy Harrell, Technical Director

REPORT OF LABORATORY ANALYSIS

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APPENDIX D
STATE AGENCY FORMS

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Biomonitoring Form
 Chronic Toxicity Summary Form
Pimephales promelas
 Chemical Parameters Chart

Permittee: City of Fort Smith
 NPDES No.: AR 0021750
 Contact: Lance McAvoy
 Analyst: Tim Harrell
 Mike Bollin

Sample No. 1 Collected: Date: 4/7/2014 Time: 8:00
 Sample No. 2 Collected: Date: 4/9/2014 Time: 8:00
 Sample No. 3 Collected: Date: 4/11/2014 Time: 8:00
 Test Begin: Date: 4/8/2014 Time: 14:30
 Test End: Date: 4/15/2014 Time: 13:10

Dilution: 0 Day:								Dilution: 6 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	24.9	25.1	24.9	25.1	25	25.1		Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25	
DO Initial	8.4	8.1	8.3	8.6	8.4	8.2	8.1		DO Initial		8.2	8.4	8.5	8.4	8.2	8.1	
DO Final	7.6	7	7.4	7.3	7.3	7.4	7.3		DO Final	7.4	7.1	7.4	7.3	7.3	7.3	7.2	
pH Initial	7.5	7.56	7.64	7.5	7.6	7.6	7.56		pH Initial		7.6	7.71	7.63	7.69	7.64	7.62	
pH Final	7.79	7.79	7.72	7.7	7.76	7.6	7.7		pH Final	7.76	7.8	7.77	7.8	7.84	7.65	7.72	
Alkalinity	64								Alkalinity								
Hardness	92								Hardness								
Conductivity	362								Conductivity								
Chlorine	<.1						<.1		Chlorine								

Dilution: 3 Day:								Dilution: 8 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25		Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25	
DO Initial		8.2	8.3	8.6	8.4	8.2	8.1		DO Initial		8.3	8.4	8.4	8.4	8.3	8.1	
DO Final	7.5	7	7.4	7.3	7.3	7.4	7.3		DO Final	7.3	7.2	7.4	7.4	7.3	7.3	7.2	
pH Initial		7.58	7.67	7.56	7.63	7.62	7.59		pH Initial		7.63	7.75	7.63	7.7	7.66	7.63	
pH Final	7.77	7.79	7.74	7.75	7.82	7.62	7.71		pH Final	7.75	7.8	7.8	7.83	7.85	7.67	7.74	
Alkalinity									Alkalinity								
Hardness									Hardness								
Conductivity									Conductivity								
Chlorine									Chlorine								

Dilution: 5 Day:								Dilution: 11 Day:									
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25		Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25	Init. 100%
DO Initial		8.2	8.4	8.6	8.4	8.2	8.1		DO Initial		8.3	8.4	8.4	8.4	8.3	8.2	8.6
DO Final	7.4	7.1	7.4	7.3	7.3	7.4	7.2		DO Final	7.3	7.2	7.5	7.4	7.3	7.2	7.2	
pH Initial		7.6	7.7	7.62	7.66	7.62	7.6		pH Initial		7.65	7.78	7.68	7.74	7.69	7.65	7.52
pH Final	7.76	7.8	7.76	7.76	7.84	7.63	7.72		pH Final	7.25	7.81	7.83	7.86	7.88	7.69	7.74	
Alkalinity									Alkalinity								122
Hardness									Hardness								822
Conductivity									Conductivity								538
Chlorine									Chlorine							<.1	<.1

**Summary Reporting Forms Chronic Biomonitoring
Fathead Minnow Larvae Growth and Survival
(Pimephales promelas)**

Permittee: City of Fort Smith

NPDES No.:

AR 0021750

	Time:	Date:	Time:	Date:
Composite 1 Collected	From 8:00	4/6/2014	To 8:00	4/7/2014

Composite 2 Collected	From 8:00	4/8/2014	To 8:00	4/9/2014
-----------------------	-----------	----------	---------	----------

Composite 3 Collected	From 8:00	4/10/2014	To 8:00	4/11/2014
-----------------------	-----------	-----------	---------	-----------

Test initiated: am/pm 14:30 AM date 4/8/2014
 Test terminated: am/pm 13:10 AM date 4/15/2014

Dilution water used: Receiving Reconstituted X

Data Table for Survival

Effluent Conc. %	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
Syn 0 %	100	100	100	87.5	87.5	100	100	95	5.99
3%	100	100	100	100	100	100	100	100	0
5%	87.5	87.5	100	100	100	100	100	95	5.99
6%	100	100	100	100	100	100	100	100	0
8%	100	100	100	100	87.5	100	100	97.5	4.79
11%	100	100	100	87.5	100	100	100	97.5	4.79

Data Table for Survival

Effluent Conc. %	Average Dry Weight in milligrams in Replicate Chambers					Mean Dry Weight mg	CV%*
	A	B	C	D	E		
Syn. 0%	0.438	0.497	0.462	0.342	0.384	0.425	14.43
3%	0.419	0.428	0.408	0.436	0.469	0.432	5.36
5%	0.342	0.375	0.497	0.451	0.432	0.419	14.67
6%	0.372	0.466	0.452	0.424	0.4	0.423	9.02
8%	0.384	0.45	0.417	0.423	0.362	0.407	8.47
11%	0.459	0.433	0.421	0.362	0.409	0.417	8.59

*coefficient of variation = standard deviation x 100/mean.

Fathead Minnow Larvae Growth and Survival (cont)
(Pimephales promelas)

1. Dunnett's Procedure or Steels Many-One Rank Test as appropriate:

Is the mean survival at 7 days significantly different ($p=.05$) than the control survival for the % effluent corresponding to:

a) Low Flow or Critical Dilution	(8 %):	Yes:	No: X
b) ½ Low Flow Dilution	(%):	Yes:	No:

2. Dunnett's Procedure (or appropriate test):

Is the mean dry weight (growth) of the effluent at 7 days significantly different ($p=0.05$) than the control's dry weight for the % effluent corresponding to (significant non-lethal effects):

a) Low Flow or Critical Dilution	(8 %):	Yes:	No: X
b) ½ Low Flow Dilution	(%):	Yes:	No:

3. If you answered NO to 1. a) and 2. a) enter (0) otherwise enter (1): 0

4. If you answered NO to 1. b) and 2. b) enter (0) otherwise enter (1):

5. Enter response to item 3 on DMR Form, parameter #TEP6C.

6. Enter response to item 4 on DMR Form, parameter #TFP6C.

7. Enter percent effluent corresponding to each NOEC below and circle lowest number:

a) NOEC survival:	11 % effluent
b) NOEC reproduction:	11 % effluent

Biomonitoring Form
 Chronic Toxicity Summary Form
Ceriodaphnia dubia
 Chemical Parameters Chart

Permittee: City of Fort Smith
 NPDES No.: AR 0021750
 Contact: Lance McAvoy
 Analyst: Tim Harrell
 Mike Bollin

Sample No. 1 Collected: Date: 4/7/2014 Time: 8:00
 Sample No. 2 Collected: Date: 4/9/2014 Time: 8:00
 Sample No. 3 Collected: Date: 4/11/2014 Time: 8:00
 Test Begin: Date: 4/8/2014 Time: 14:30
 Test End: Date: 4/15/2014 Time: 13:10

Dilution: 0 Day:									Dilution: 6 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	25.1	24.9	25.1	24.9	25.1	25	25.1		Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25	
DO Initial	8.4	8.1	8.3	8.6	8.4	8.2	8.1		DO Initial		8.2	8.4	8.5	8.4	8.2	8.1	
DO Final	7.6	7	7.4	7.3	7.3	7.4	7.3		DO Final	7.4	7.1	7.4	7.3	7.3	7.3	7.2	
pH Initial	7.5	7.56	7.64	7.5	7.6	7.6	7.56		pH Initial		7.6	7.71	7.63	7.69	7.64	7.62	
pH Final	7.79	7.79	7.72	7.7	7.76	7.6	7.7		pH Final	7.76	7.8	7.77	7.8	7.84	7.65	7.72	
Alkalinity	64								Alkalinity								
Hardness	92								Hardness								
Conductivity	362								Conductivity								
Chlorine	<.1						<.1		Chlorine								

Dilution: 3 Day:									Dilution: 8 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25		Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25	
DO Initial		8.2	8.3	8.6	8.4	8.2	8.1		DO Initial		8.3	8.4	8.4	8.4	8.3	8.1	
DO Final	7.5	7	7.4	7.3	7.3	7.4	7.3		DO Final	7.3	7.2	7.4	7.4	7.3	7.3	7.2	
pH Initial		7.58	7.67	7.56	7.63	7.62	7.59		pH Initial		7.63	7.75	7.63	7.7	7.66	7.63	
pH Final	7.77	7.79	7.74	7.75	7.82	7.62	7.71		pH Final	7.75	7.8	7.8	7.83	7.85	7.67	7.74	
Alkalinity									Alkalinity								
Hardness									Hardness								
Conductivity									Conductivity								
Chlorine									Chlorine								

Dilution: 5 Day:									Dilution: 11 Day:								
	1	2	3	4	5	6	7	Comments		1	2	3	4	5	6	7	Comments
Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25		Temp (C)	24.8	25.2	25.2	24.9	25	24.9	25	Init. 100%
DO Initial		8.2	8.4	8.6	8.4	8.2	8.1		DO Initial		8.3	8.4	8.4	8.4	8.3	8.2	8.6
DO Final	7.4	7.1	7.4	7.3	7.3	7.4	7.2		DO Final	7.3	7.2	7.5	7.4	7.3	7.2	7.2	
pH Initial		7.6	7.7	7.62	7.66	7.62	7.6		pH Initial		7.65	7.78	7.68	7.74	7.69	7.65	7.52
pH Final	7.76	7.8	7.76	7.76	7.84	7.63	7.72		pH Final	7.25	7.81	7.83	7.86	7.88	7.69	7.74	
Alkalinity									Alkalinity								122
Hardness									Hardness								822
Conductivity									Conductivity								538
Chlorine									Chlorine							<.1	<.1

Summary Reporting Forms Chronic Biomonitoring

Ceriodaphnia dubia Survival and Reproduction

Permittee: City of Fort Smith

NPDES No.:

AR 0021750

	Time:	Date:	Time:	Date:
Composite 1 Collected	From 8:00	4/6/2014	To 8:00	4/7/2014

Composite 2 Collected	From 8:00	4/8/2014	To 8:00	4/9/2014
-----------------------	-----------	----------	---------	----------

Composite 3 Collected	From 8:00	4/10/2014	To 8:00	4/11/2014
-----------------------	-----------	-----------	---------	-----------

Test initiated: am/pm 14:30 AM

date 4/8/2014

Test terminated: am/pm 13:10 AM

date 4/15/2014

Dilution water used: Receiving

Reconstituted X

Percent Survival

Time of Reading	Percent Effluent					
	0	3	5	6	8	11
24h	100	100	100	100	100	100
48h	100	100	100	100	100	100
End of test	100	100	100	100	100	100

Number of Young Produced per Female @ End of Test

Rep	0	3	5	6	8	11
A	21	23	18	16	22	23
B	20	17	22	21	21	20
C	18	21	22	25	22	22
D	17	16	18	24	17	22
E	18	23	24	20	22	23
F	22	24	24	18	23	22
G	18	24	18	21	24	27
H	23	20	21	22	22	15
I	22	19	17	23	20	23
J	17	20	21	22	21	16
Mean	19.6	20.7	20.5	21.2	21.4	21.3
CV%*	11.58	13.67	12.65	12.73	8.87	16.57

*coefficient of variation = standard deviation x 100/mean.

Ceriodaphnia dubia
Survival and Reproduction (cont)

1. Fisher's Exact Test:

Is the mean survival at the end of the test significantly different ($p=.05$) than the control survival for the % effluent corresponding to (lethality):

a) Low Flow or Critical Dilution	(	8 %):	Yes:	No: X
b) 1/2 Low Flow Dilution	(	%):	Yes:	No:

2. Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean number of young produced per female significantly different ($p=.05$) than the control's number of young per female for the % effluent corresponding to (significant non-lethal effects):

a) Low Flow or Critical Dilution	(	8 %):	Yes:	No: X
b) 1/2 Low Flow Dilution	(	%):	Yes:	No:

3. If you answered NO to 1. a) and 2. a) enter (0) otherwise enter (1): 0

4. If you answered NO to 1. b) and 2. b) enter (0) otherwise enter (1):

5. Enter response to item 3 on DMR Form, parameter #TEP3B.

6. Enter response to item 4 on DMR Form, parameter #TFP3B.

7. Enter percent effluent corresponding to each NOEC below and circle lowest number:

a) NOEC survival:	11 % effluent
b) NOEC reproduction:	11 % effluent

From: (479) 784-2330
Steve Floyd
City of Fort Smith
3900 Kelley Highway

Origin ID: FSMA



J142014061903.uv

Fort Smith, AR 72904

Ship Date: 23JUL14
ActWgt: 3.0 LB
CAD: 1731127/INET3550

Delivery Address Bar Code



SHIP TO: (501) 682-0638 **BILL SENDER**
NPDES Enforcement Section, Water
ADEQ
5301 Northshore Drive

North Little Rock, AR 72118

Ref #
Invoice #
PO #
Dept #

FRI - 25 JUL AA
**** 2DAY ****

TRK# 7706 7066 6785

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