***DRAFT***

# INTERIM FACILITY INVESTIGATION REPORT
# CEDAR CHEMICAL COMPANY FACILITY
# HELENA-WEST HELENA, ARKANSAS

*Submitted to:*

**Arkansas Department of Environmental Quality, Arkansas**

*Submitted by:*

**AMEC Geomatrix, Inc., Austin, Texas**

OCTOBER 2008

Project No. 13636

AMEC Geomatrix

9545333

# FIGURES

BASEMAP MODIFIED FROM:
Smith & Welland/Cline-Fraizer Survey, August 2008

## EXPLANATION

0 80
APPROXIMATE SCALE IN FEET

161.5 — Perched Zone Well Location with Potentiometric Surface Elevation in Feet Above Mean Sea Level (FT AMSL)

161.5 — Potentiometric Surface Contour with Elevation in FT AMSL

**DRAFT - PRELIMINARY**

POTENTIOMETRIC SURFACE MAP
PERCHED ZONE

Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 1 |

BASEMAP MODIFIED FROM:
Smith & Weiland/Cline-Fraizer Survey, August 2008

## EXPLANATION

0 80
APPROXIMATE SCALE IN FEET

161.5 — Upper Alluvial Aquifer Well Location with Potentiometric Surface Elevation in Feet Above Mean Sea Level (FT AMSL)

161.5 — Potentiometric Surface Contour with Elevation in FT AMSL

Approximate Direction of Groundwater Flow

**DRAFT - PRELIMINARY**

POTENTIOMETRIC SURFACE MAP
UPPER ALLUVIAL AQUIFER

Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 2 |

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## EXPLANATION

161.5 ☒ Middle Alluvial Aquifer Well Location with Potentiometric Surface Elevation in Feet Above Mean Sea Level (FT AMSL)

◑ CMT Well Completion in Middle Alluvial Zone (depths noted above)

161.5 Potentiometric Surface Contour with Elevation in FT AMSL

0 80
APPROXIMATE SCALE IN FEET

**DRAFT - PRELIMINARY**

POTENTIOMETRIC SURFACE MAP
MIDDLE ALLUVIAL AQUIFER

Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 3 |

BASEMAP MODIFIED FROM:
Smith & Welland/Cline-Fraizer Survey, August 2008

## EXPLANATION

161.5 — Lower Alluvial Aquifer Well Location with Potentiometric Surface Elevation in Feet Above Mean Sea Level (FT AMSL)

CMT Well Completion in Lower Alluvial Zone (depths noted above)

161.5 — Potentiometric Surface Contour with Elevation in FT AMSL

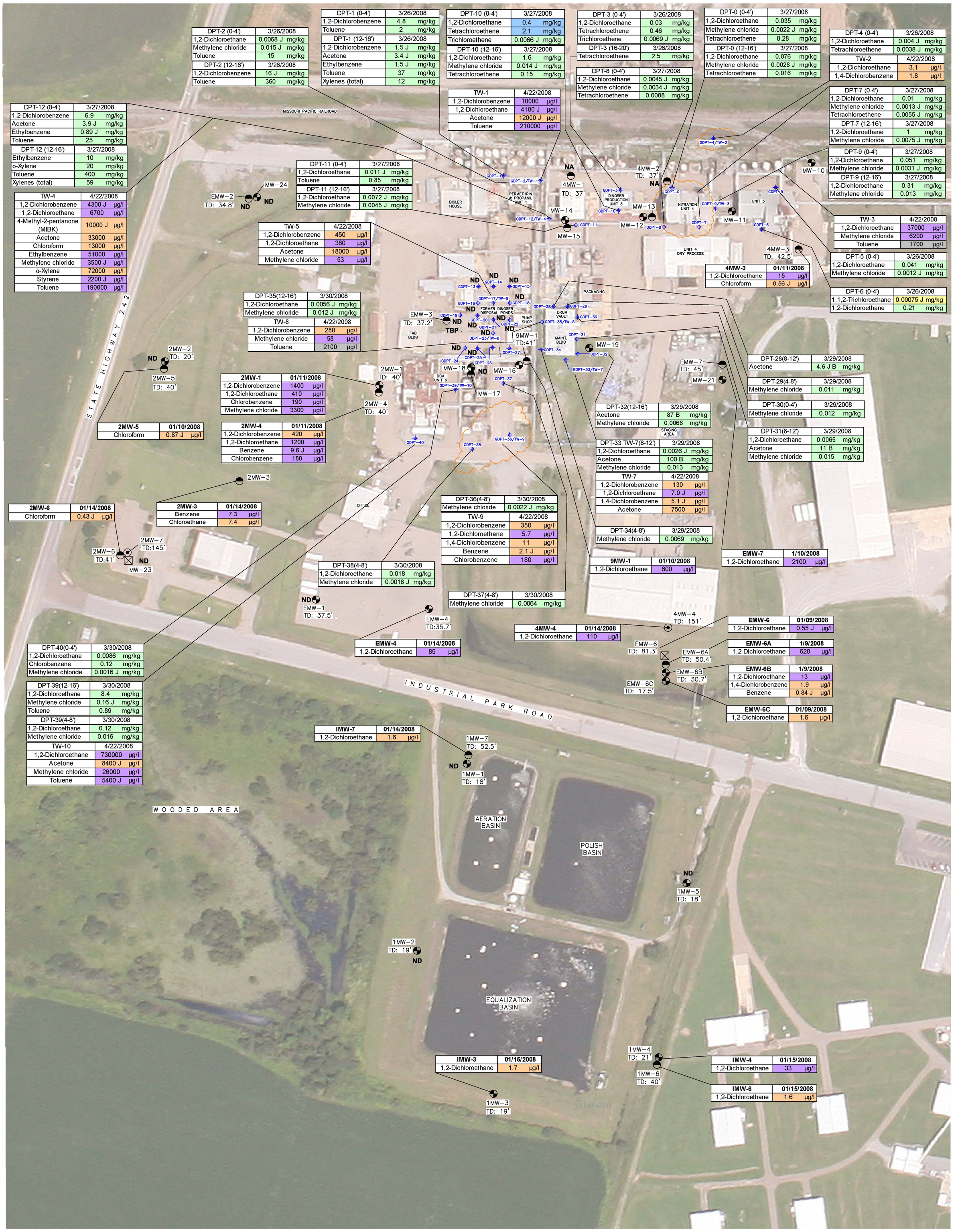
0 80
APPROXIMATE SCALE IN FEET

**DRAFT - PRELIMINARY**

POTENTIOMETRIC SURFACE MAP
LOWER ALLUVIAL AQUIFER

Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 4 |




| DPT-2 (0-4') | 3/26/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0068 J mg/kg |
| Methylene chloride | 0.015 J mg/kg |
| Toluene | 15 mg/kg |

| DPT-2 (12-16') | 3/26/2008 |
|---|---|
| 1,2-Dichlorobenzene | 16 J mg/kg |
| Toluene | 360 mg/kg |

| DPT-1 (0-4') | 3/26/2008 |
|---|---|
| 1,2-Dichlorobenzene | 4.8 mg/kg |
| Toluene | 2 mg/kg |

| DPT-1 (12-16') | 3/26/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1.5 J mg/kg |
| Acetone | 3.4 J mg/kg |
| Ethylbenzene | 1.5 J mg/kg |
| Toluene | 37 mg/kg |
| Xylenes (total) | 12 mg/kg |

| DPT-10 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.4 mg/kg |
| Tetrachloroethene | 2.1 mg/kg |
| Trichloroethene | 0.0066 J mg/kg |

| DPT-10 (12-16') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 1.6 mg/kg |
| Methylene chloride | 0.014 J mg/kg |
| Tetrachloroethene | 0.15 mg/kg |

| DPT-3 (0-4') | 3/26/2008 |
|---|---|
| 1,2-Dichloroethane | 0.03 mg/kg |
| Tetrachloroethene | 0.46 mg/kg |
| Trichloroethene | 0.0069 J mg/kg |

| DPT-3 (16-20') | 3/26/2008 |
|---|---|
| Tetrachloroethene | 2.5 mg/kg |

| DPT-8 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0045 J mg/kg |
| Methylene chloride | 0.0034 J mg/kg |
| Tetrachloroethene | 0.0088 mg/kg |

| DPT-0 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.035 mg/kg |
| Methylene chloride | 0.0022 J mg/kg |
| Tetrachloroethene | 0.28 mg/kg |

| DPT-0 (12-16') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.076 mg/kg |
| Methylene chloride | 0.0028 J mg/kg |
| Tetrachloroethene | 0.016 mg/kg |

| DPT-4 (0-4') | 3/26/2008 |
|---|---|
| 1,2-Dichloroethane | 0.004 J mg/kg |
| Tetrachloroethene | 0.0038 J mg/kg |

| TW-2 | 4/22/2008 |
|---|---|
| 1,2-Dichloroethane | 3.1 µg/l |
| 1,4-Dichlorobenzene | 1.8 µg/l |

| DPT-7 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.01 mg/kg |
| Methylene chloride | 0.0013 J mg/kg |
| Tetrachloroethene | 0.0055 J mg/kg |

| DPT-7 (12-16') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 1 mg/kg |
| Methylene chloride | 0.0075 J mg/kg |

| DPT-9 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.051 mg/kg |
| Methylene chloride | 0.0031 J mg/kg |

| DPT-9 (12-16') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.31 mg/kg |
| Methylene chloride | 0.013 mg/kg |

| DPT-12 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichlorobenzene | 6.9 mg/kg |
| Acetone | 3.9 J mg/kg |
| Ethylbenzene | 0.89 J mg/kg |
| Toluene | 25 mg/kg |

| DPT-12 (12-16') | 3/27/2008 |
|---|---|
| Ethylbenzene | 10 mg/kg |
| o-Xylene | 20 mg/kg |
| Toluene | 400 mg/kg |
| Xylenes (total) | 59 mg/kg |

| TW-1 | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 10000 µg/l |
| 1,2-Dichloroethane | 4100 J µg/l |
| Acetone | 12000 J µg/l |
| Toluene | 210000 µg/l |

| DPT-11 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.011 J mg/kg |
| Toluene | 0.85 mg/kg |

| DPT-11 (12-16') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0072 J mg/kg |
| Methylene chloride | 0.0045 J mg/kg |

| TW-4 | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 4300 J µg/l |
| 1,2-Dichloroethane | 6700 µg/l |
| 4-Methyl-2-pentanone (MIBK) | 10000 J µg/l |
| Acetone | 33000 µg/l |
| Chloroform | 13000 µg/l |
| Ethylbenzene | 51000 µg/l |
| Methylene chloride | 3500 J µg/l |
| o-Xylene | 72000 µg/l |
| Styrene | 2200 J µg/l |
| Toluene | 190000 µg/l |

| TW-5 | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 450 µg/l |
| 1,2-Dichloroethane | 380 µg/l |
| Acetone | 18000 µg/l |
| Methylene chloride | 53 µg/l |

| TW-3 | 4/22/2008 |
|---|---|
| 1,2-Dichloroethane | 37000 µg/l |
| Methylene chloride | 6200 µg/l |
| Toluene | 1700 µg/l |

| DPT-5 (0-4') | 3/26/2008 |
|---|---|
| 1,2-Dichloroethane | 0.041 mg/kg |
| Methylene chloride | 0.0012 J mg/kg |

| DPT-6 (0-4') | 3/26/2008 |
|---|---|
| 1,1,2-Trichloroethane | 0.00075 J mg/kg |
| 1,2-Dichloroethane | 0.21 mg/kg |

| 4MW-3 | 01/11/2008 |
|---|---|
| 1,2-Dichloroethane | 15 µg/l |
| Chloroform | 0.56 J µg/l |

| DPT-35(12-16') | 3/30/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0056 J mg/kg |
| Methylene chloride | 0.012 J mg/kg |

| TW-8 | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 280 µg/l |
| Methylene chloride | 58 µg/l |
| Toluene | 2100 µg/l |

| 2MW-1 | 01/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1400 µg/l |
| 1,2-Dichloroethane | 410 µg/l |
| Chlorobenzene | 190 µg/l |
| Methylene chloride | 3300 µg/l |

| 2MW-5 | 01/10/2008 |
|---|---|
| Chloroform | 0.87 J µg/l |

| 2MW-4 | 01/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 420 µg/l |
| 1,2-Dichloroethane | 1200 µg/l |
| Benzene | 9.6 J µg/l |
| Chlorobenzene | 180 µg/l |

| DPT-28(8-12') | 3/29/2008 |
|---|---|
| Acetone | 4.6 J B mg/kg |

| DPT-29(4-8') | 3/29/2008 |
|---|---|
| Methylene chloride | 0.011 mg/kg |

| DPT-30(0-4') | 3/29/2008 |
|---|---|
| Methylene chloride | 0.012 mg/kg |

| DPT-31(8-12') | 3/29/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0065 mg/kg |
| Acetone | 11 B mg/kg |
| Methylene chloride | 0.015 mg/kg |

| DPT-32(12-16') | 3/29/2008 |
|---|---|
| Acetone | 87 B mg/kg |
| Methylene chloride | 0.0068 mg/kg |

| DPT-33 TW-7(8-12') | 3/29/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0026 J mg/kg |
| Acetone | 100 B mg/kg |
| Methylene chloride | 0.013 mg/kg |

| TW-7 | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 130 µg/l |
| 1,2-Dichloroethane | 7.0 J µg/l |
| 1,4-Dichlorobenzene | 5.1 J µg/l |
| Acetone | 7500 µg/l |

| DPT-34(4-8') | 3/29/2008 |
|---|---|
| Methylene chloride | 0.0069 mg/kg |

| 9MW-1 | 01/10/2008 |
|---|---|
| 1,2-Dichloroethane | 600 µg/l |

| EMW-7 | 1/10/2008 |
|---|---|
| 1,2-Dichloroethane | 2100 µg/l |

| 2MW-6 | 01/14/2008 |
|---|---|
| Chloroform | 0.43 J µg/l |

| 2MW-3 | 01/14/2008 |
|---|---|
| Benzene | 7.3 µg/l |
| Chloroethane | 7.4 µg/l |

| DPT-36(4-8') | 3/30/2008 |
|---|---|
| Methylene chloride | 0.0022 J mg/kg |

| TW-9 | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 350 µg/l |
| 1,2-Dichloroethane | 5.7 µg/l |
| 1,4-Dichlorobenzene | 11 µg/l |
| Benzene | 2.1 J µg/l |
| Chlorobenzene | 180 µg/l |

| DPT-38(4-8') | 3/30/2008 |
|---|---|
| 1,2-Dichloroethane | 0.018 mg/kg |
| Methylene chloride | 0.0018 J mg/kg |

| DPT-37(4-8') | 3/30/2008 |
|---|---|
| Methylene chloride | 0.0064 mg/kg |

| 4MW-4 | 01/14/2008 |
|---|---|
| 1,2-Dichloroethane | 110 µg/l |

| EMW-4 | 01/14/2008 |
|---|---|
| 1,2-Dichloroethane | 85 µg/l |

| EMW-6 | 01/09/2008 |
|---|---|
| 1,2-Dichloroethane | 0.55 J µg/l |

| EMW-6A | 1/9/2008 |
|---|---|
| 1,2-Dichloroethane | 620 µg/l |

| EMW-6B | 1/9/2008 |
|---|---|
| 1,2-Dichloroethane | 13 µg/l |
| 1,4-Dichlorobenzene | 1.9 µg/l |
| Benzene | 0.84 J µg/l |

| EMW-6C | 01/09/2008 |
|---|---|
| 1,2-Dichloroethane | 1.6 µg/l |

| DPT-40(0-4') | 3/30/2008 |
|---|---|
| 1,2-Dichloroethane | 0.0086 mg/kg |
| Chlorobenzene | 0.12 mg/kg |
| Methylene chloride | 0.0016 J mg/kg |

| DPT-39(12-16') | 3/30/2008 |
|---|---|
| 1,2-Dichloroethane | 8.4 mg/kg |
| Methylene chloride | 0.16 J mg/kg |
| Toluene | 0.89 mg/kg |

| DPT-39(4-8') | 3/30/2008 |
|---|---|
| 1,2-Dichloroethane | 0.12 mg/kg |
| Methylene chloride | 0.016 mg/kg |

| TW-10 | 4/22/2008 |
|---|---|
| 1,2-Dichloroethane | 730000 µg/l |
| Acetone | 8400 J µg/l |
| Methylene chloride | 26000 µg/l |
| Toluene | 5400 J µg/l |

| IMW-7 | 01/14/2008 |
|---|---|
| 1,2-Dichloroethane | 1.6 µg/l |

| IMW-3 | 01/15/2008 |
|---|---|
| 1,2-Dichloroethane | 1.7 µg/l |

| IMW-4 | 01/15/2008 |
|---|---|
| 1,2-Dichloroethane | 33 µg/l |

| IMW-6 | 01/15/2008 |
|---|---|
| 1,2-Dichloroethane | 1.6 µg/l |

BASEMAP MODIFIED FROM:
Smith & Welland/Cline-Fraizer Survey, August 2008

| Screening Levels for Soil Samples | | |
|---|---|---|
| *Analyte* | *Residential Soil MSSL (0-6" bgs) (mg/kg)* | *DAF (6" to Groundwater) (mg/kg)* |
| 1,1,2-Trichloroethane | 0.84 | 0.0009 |
| 1,2-Dichlorobenzene | 280 | 0.9 |
| 1,2-Dichloroethane | 0.35 | 0.001 |
| 1,4-Dichlorobenzene | 3.2 | 0.1 |
| Acetone | 14000 | 0.8 |
| Chlorobenzene | 270 | 0.07 |
| Ethylbenzene | 230 | 0.7 |
| Methylene chloride | 8.9 | 0.001 |
| o-Xylene | 280 | 9 |
| Tetrachloroethene | 0.55 | 0.003 |
| Toluene | 520 | 0.6 |
| Trichloroethene | 0.043 | 0.003 |
| Xylenes (total) | 210 | 10 |

- Sample Result Exceeds Residential Soil (0-6") MSSL
- Sample Result Exceeds Soil Dilution Attenuation Factor (DAF)
- Sample Result Exceeds Both Soil MSSL and DAF

| Screening Levels for Groundwater Samples | | |
|---|---|---|
| *Analyte* | *Primary Drinking Water Standard (ug/L)* | *Region 6 TapWater MSSL (ug/l)* |
| 1,2-Dichlorobenzene | 600 | 49 |
| 1,2-Dichloroethane | 5 | 0.12 |
| 1,4-Dichlorobenzene | 75 | 0.47 |
| 4-Methyl-2-pentanone (MIBK) | None | 2000 |
| Acetone | None | 5500 |
| Benzene | 5 | 0.35 |
| Chlorobenzene | 100 | 91 |
| Chloroethane | None | 3.9 |
| Chloroform | None | 0.17 |
| Methylene chloride | 5 | 4.3 |
| o-Xylene | None | 1400 |
| Styrene | 100 | 1600 |
| Toluene | 1000 | 2300 |

- Sample Result Exceeds the Primary Drinking Water Standard
- Sample Result Exceeds the Tap Water MSSL
- Sample Result Exceeds Both the Primary Drinking Water Standard and the Tap Water MSSL

## EXPLANATION

- **Perched Well Location**
- **Upper Alluvial Well Location**
- **Middle Alluvial Well Location**
- **Lower Alluvial Well Location**

0 80
APPROXIMATE SCALE IN FEET

GDPT-5 DIRECT PUSH LOCATION

TW-1 TEMPORARY WELL LOCATION

SUSPECT WASTE BURIAL AREA IDENTIFIED BY ADEQ

DPT-2, DPT-18, DPT-39 ADEQ EXPANDED PROTOCOL

Sample ID with Depth

| DPT-10 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.4 mg/kg |
| Tetrachloroethene | 2.1 mg/kg |
| Trichloroethene | 0.0066 J mg/kg |

Concentration of Analytes Detected above Screening Levels

**ND** - VOCs Not Detected above Screening Levels

**NA** - Sample Not Collected

**TBP** - To be Plugged and Abandoned

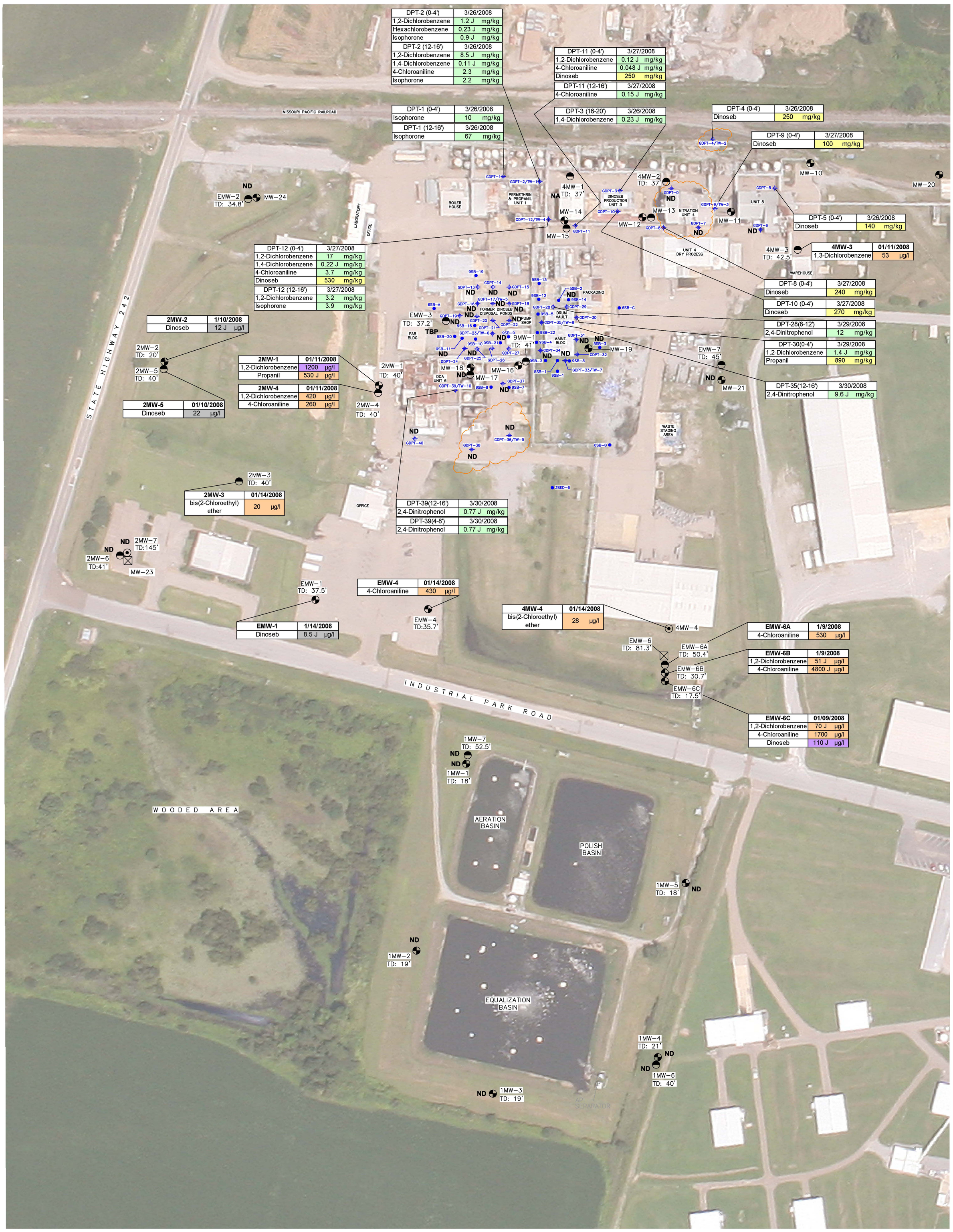
VOCs in Soil and Groundwater
DPT Investigation March 2008

Cedar Chemical
Helena-West Helena, Arkansas

By: MLS | Date: 10/1/08 | Project No. 13636

**AMEC Geomatrix**

Figure 5




| DPT-2 (0-4') | 3/26/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1.2 J mg/kg |
| Hexachlorobenzene | 0.23 J mg/kg |
| Isophorone | 0.9 J mg/kg |

| DPT-2 (12-16') | 3/26/2008 |
|---|---|
| 1,2-Dichlorobenzene | 8.5 J mg/kg |
| 1,4-Dichlorobenzene | 0.11 J mg/kg |
| 4-Chloroaniline | 2.3 mg/kg |
| Isophorone | 2.2 mg/kg |

| DPT-1 (0-4') | 3/26/2008 |
|---|---|
| Isophorone | 10 mg/kg |

| DPT-1 (12-16') | 3/26/2008 |
|---|---|
| Isophorone | 67 mg/kg |

| DPT-12 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichlorobenzene | 17 mg/kg |
| 1,4-Dichlorobenzene | 0.22 J mg/kg |
| 4-Chloroaniline | 3.7 mg/kg |
| Dinoseb | 530 mg/kg |

| DPT-12 (12-16') | 3/27/2008 |
|---|---|
| 1,2-Dichlorobenzene | 3.2 mg/kg |
| Isophorone | 3.9 mg/kg |

| DPT-11 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichlorobenzene | 0.12 J mg/kg |
| 4-Chloroaniline | 0.048 J mg/kg |
| Dinoseb | 250 mg/kg |

| DPT-11 (12-16') | 3/27/2008 |
|---|---|
| 4-Chloroaniline | 0.15 J mg/kg |

| DPT-3 (16-20') | 3/26/2008 |
|---|---|
| 1,4-Dichlorobenzene | 0.23 J mg/kg |

| DPT-4 (0-4') | 3/26/2008 |
|---|---|
| Dinoseb | 250 mg/kg |

| DPT-9 (0-4') | 3/27/2008 |
|---|---|
| Dinoseb | 100 mg/kg |

| DPT-5 (0-4') | 3/26/2008 |
|---|---|
| Dinoseb | 140 mg/kg |

| 4MW-3 | 01/11/2008 |
|---|---|
| 1,3-Dichlorobenzene | 53 µg/l |

| DPT-8 (0-4') | 3/27/2008 |
|---|---|
| Dinoseb | 240 mg/kg |

| DPT-10 (0-4') | 3/27/2008 |
|---|---|
| Dinoseb | 270 mg/kg |

| DPT-28(8-12') | 3/29/2008 |
|---|---|
| 2,4-Dinitrophenol | 12 mg/kg |

| DPT-30(0-4') | 3/29/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1.4 J mg/kg |
| Propanil | 890 mg/kg |

| DPT-35(12-16') | 3/30/2008 |
|---|---|
| 2,4-Dinitrophenol | 9.6 J mg/kg |

| 2MW-2 | 1/10/2008 |
|---|---|
| Dinoseb | 12 J µg/l |

| 2MW-1 | 01/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1200 µg/l |
| Propanil | 530 J µg/l |

| 2MW-4 | 01/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 420 µg/l |
| 4-Chloroaniline | 260 µg/l |

| 2MW-5 | 01/10/2008 |
|---|---|
| Dinoseb | 22 µg/l |

| 2MW-3 | 01/14/2008 |
|---|---|
| bis(2-Chloroethyl) ether | 20 µg/l |

| DPT-39(12-16') | 3/30/2008 |
|---|---|
| 2,4-Dinitrophenol | 0.77 J mg/kg |

| DPT-39(4-8') | 3/30/2008 |
|---|---|
| 2,4-Dinitrophenol | 0.77 J mg/kg |

| EMW-4 | 01/14/2008 |
|---|---|
| 4-Chloroaniline | 430 µg/l |

| EMW-1 | 1/14/2008 |
|---|---|
| Dinoseb | 8.5 J µg/l |

| 4MW-4 | 01/14/2008 |
|---|---|
| bis(2-Chloroethyl) ether | 28 µg/l |

| EMW-6A | 1/9/2008 |
|---|---|
| 4-Chloroaniline | 530 µg/l |

| EMW-6B | 1/9/2008 |
|---|---|
| 1,2-Dichlorobenzene | 51 J µg/l |
| 4-Chloroaniline | 4800 J µg/l |

| EMW-6C | 01/09/2008 |
|---|---|
| 1,2-Dichlorobenzene | 70 J µg/l |
| 4-Chloroaniline | 1700 µg/l |
| Dinoseb | 110 J µg/l |

BASEMAP MODIFIED FROM:
Smith & Weiland/Cline-Fraizer Survey, August 2008

**Screening Levels for Soil Samples**

| *Analyte* | *Residential Soil (0-6" bgs) (mg/kg)* | *DAF (6" to Groundwater) (mg/kg)* |
|---|---|---|
| 1,2-Dichlorobenzene | 280 | 0.9 |
| 1,4-Dichlorobenzene | 3.2 | 0.1 |
| 2,4-Dinitrophenol | 120 | 0.01 |
| 4-Chloroaniline | 240 | 0.03 |
| Dinoseb | 61 | NA |
| Hexachlorobenzene | 0.3 | 0.1 |
| Isophorone | 510 | 0.03 |
| Propanil | 310 | NA |

- Sample Result Exceeds Residential Soil (0-6") MSSL
- Sample Result Exceeds Soil Dilution Attenuation Factor (DAF)
- Sample Result Exceeds Both Soil MSSL and DAF

**Screening Levels for Groundwater Samples**

| *Analyte* | *Primary Drinking Water Standard (ug/L)* | *Region 6 TapWater MSSL (ug/l)* |
|---|---|---|
| 1,2-Dichlorobenzene | 600 | 49 |
| Propanil | None | 180 |
| Dinoseb | 7 | 37 |
| bis(2-Chloroethyl) ether | None | 0.0098 |
| 4-Chloroaniline | None | 150 |
| 1,3-Dichlorobenzene | None | 15 |

- Sample Result Exceeds the Primary Drinking Water Standard
- Sample Result Exceeds the Tap Water MSSL
- Sample Result Exceeds Both the Primary Drinking Water Standard and the Tap Water MSSL

## EXPLANATION

- **Perched Well Location**
- **Upper Alluvial Well Location**
- **Middle Alluvial Well Location**
- **Lower Alluvial Well Location**

0 80
APPROXIMATE SCALE IN FEET

GDPT-5 DIRECT PUSH LOCATION

TW-1 TEMPORARY WELL LOCATION

SUSPECT WASTE BURIAL AREA IDENTIFIED BY ADEQ

DPT-2, DPT-18, DPT-39: ADEQ EXPANDED PROTOCOL

Sample ID with Depth

| DPT-10 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.4 mg/kg |
| Tetrachloroethene | 2.1 mg/kg |
| Trichloroethene | 0.0066 J mg/kg |

Concentration of Analytes Detected above Screening Levels

**ND** - VOCs Not Detected above Screening Levels

**NA** - Sample Not Collected

**TBP** - To be Plugged and Abandoned

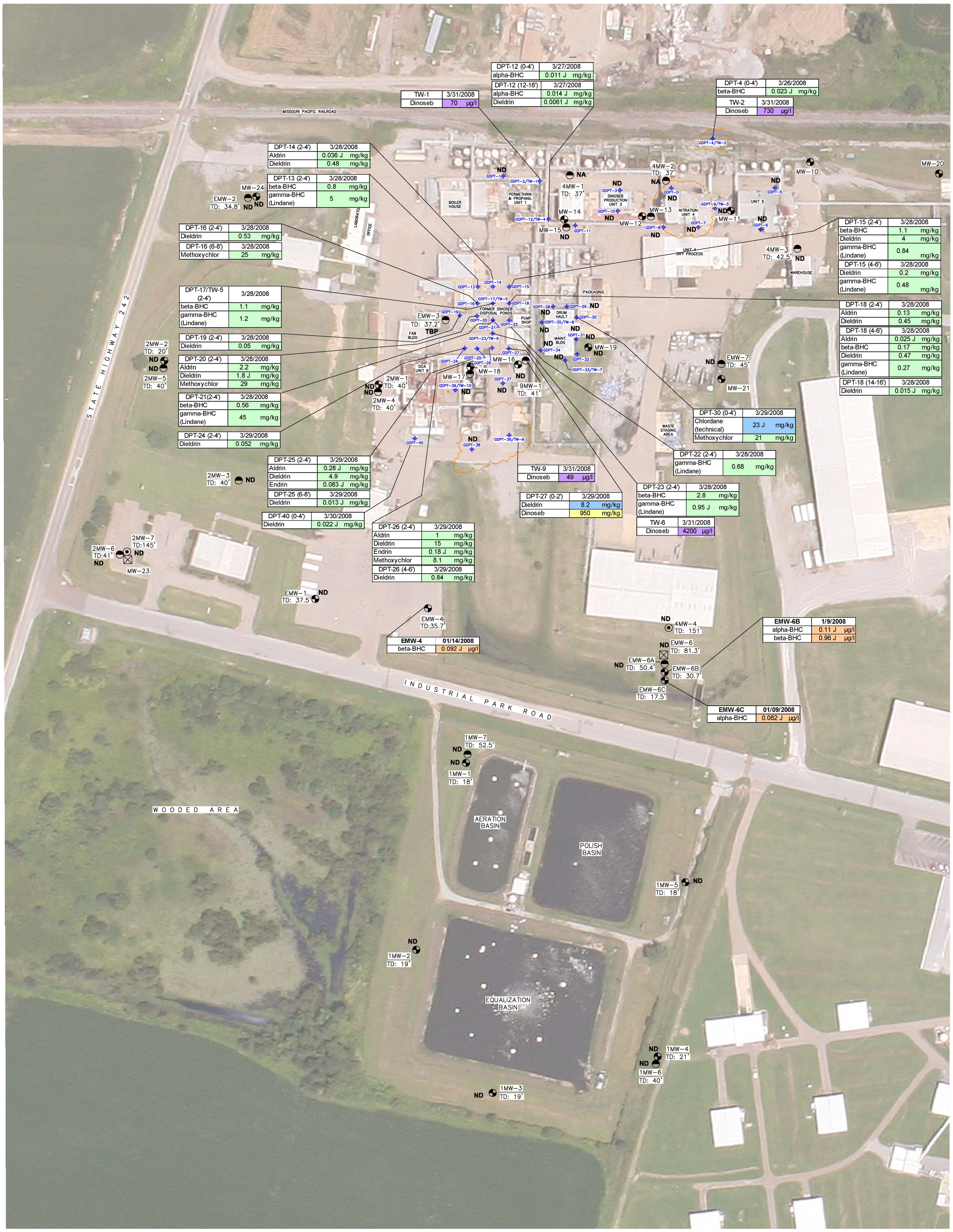
SVOCs in Soil and Groundwater
DPT Investigation March 2008

Cedar Chemical
Helena-West Helena, Arkansas

By: MLS | Date: 10/1/08 | Project No. 13636

**AMEC Geomatrix**

Figure 6




| DPT-12 (0-4') | 3/27/2008 |
|---|---|
| alpha-BHC | 0.011 J mg/kg |

| DPT-12 (12-16') | 3/27/2008 |
|---|---|
| alpha-BHC | 0.014 J mg/kg |
| Dieldrin | 0.0061 J mg/kg |

| TW-1 | 3/31/2008 |
|---|---|
| Dinoseb | 70 µg/l |

| DPT-4 (0-4') | 3/26/2008 |
|---|---|
| beta-BHC | 0.023 J mg/kg |

| TW-2 | 3/31/2008 |
|---|---|
| Dinoseb | 730 µg/l |

| DPT-14 (2-4') | 3/28/2008 |
|---|---|
| Aldrin | 0.036 J mg/kg |
| Dieldrin | 0.48 mg/kg |

| DPT-13 (2-4') | 3/28/2008 |
|---|---|
| beta-BHC | 0.8 mg/kg |
| gamma-BHC (Lindane) | 5 mg/kg |

| DPT-16 (2-4') | 3/28/2008 |
|---|---|
| Dieldrin | 0.53 mg/kg |

| DPT-16 (6-8') | 3/28/2008 |
|---|---|
| Methoxychlor | 25 mg/kg |

| DPT-17/TW-5 (2-4') | 3/28/2008 |
|---|---|
| beta-BHC | 1.1 mg/kg |
| gamma-BHC (Lindane) | 1.2 mg/kg |

| DPT-19 (2-4') | 3/28/2008 |
|---|---|
| Dieldrin | 0.05 mg/kg |

| DPT-20 (2-4') | 3/28/2008 |
|---|---|
| Aldrin | 2.2 mg/kg |
| Dieldrin | 1.8 J mg/kg |
| Methoxychlor | 29 mg/kg |

| DPT-21(2-4') | 3/28/2008 |
|---|---|
| beta-BHC | 0.56 mg/kg |
| gamma-BHC (Lindane) | 45 mg/kg |

| DPT-24 (2-4') | 3/29/2008 |
|---|---|
| Dieldrin | 0.052 mg/kg |

| DPT-25 (2-4') | 3/29/2008 |
|---|---|
| Aldrin | 0.28 J mg/kg |
| Dieldrin | 4.9 mg/kg |
| Endrin | 0.083 J mg/kg |

| DPT-25 (6-8') | 3/29/2008 |
|---|---|
| Dieldrin | 0.013 J mg/kg |

| DPT-40 (0-4') | 3/30/2008 |
|---|---|
| Dieldrin | 0.022 J mg/kg |

| DPT-26 (2-4') | 3/29/2008 |
|---|---|
| Aldrin | 1 mg/kg |
| Dieldrin | 15 mg/kg |
| Endrin | 0.18 J mg/kg |
| Methoxychlor | 8.1 mg/kg |

| DPT-26 (4-6') | 3/29/2008 |
|---|---|
| Dieldrin | 0.84 mg/kg |

| TW-9 | 3/31/2008 |
|---|---|
| Dinoseb | 49 µg/l |

| DPT-27 (0-2') | 3/29/2008 |
|---|---|
| Dieldrin | 8.2 mg/kg |
| Dinoseb | 950 mg/kg |

| DPT-23 (2-4') | 3/28/2008 |
|---|---|
| beta-BHC | 2.8 mg/kg |
| gamma-BHC (Lindane) | 0.95 J mg/kg |

| TW-6 | 3/31/2008 |
|---|---|
| Dinoseb | 4200 µg/l |

| DPT-15 (2-4') | 3/28/2008 |
|---|---|
| beta-BHC | 1.1 mg/kg |
| Dieldrin | 4 mg/kg |
| gamma-BHC (Lindane) | 0.84 mg/kg |

| DPT-15 (4-6') | 3/28/2008 |
|---|---|
| Dieldrin | 0.2 mg/kg |
| gamma-BHC (Lindane) | 0.48 mg/kg |

| DPT-18 (2-4') | 3/28/2008 |
|---|---|
| Aldrin | 0.13 mg/kg |
| Dieldrin | 0.45 mg/kg |

| DPT-18 (4-6') | 3/28/2008 |
|---|---|
| Aldrin | 0.025 J mg/kg |
| beta-BHC | 0.17 mg/kg |
| Dieldrin | 0.47 mg/kg |
| gamma-BHC (Lindane) | 0.27 mg/kg |

| DPT-18 (14-16') | 3/28/2008 |
|---|---|
| Dieldrin | 0.015 J mg/kg |

| DPT-30 (0-4') | 3/29/2008 |
|---|---|
| Chlordane (technical) | 23 J mg/kg |
| Methoxychlor | 21 mg/kg |

| DPT-22 (2-4') | 3/28/2008 |
|---|---|
| gamma-BHC (Lindane) | 0.68 mg/kg |

| EMW-4 | 01/14/2008 |
|---|---|
| beta-BHC | 0.092 J µg/l |

| EMW-6B | 1/9/2008 |
|---|---|
| alpha-BHC | 0.11 J µg/l |
| beta-BHC | 0.96 J µg/l |

| EMW-6C | 01/09/2008 |
|---|---|
| alpha-BHC | 0.082 J µg/l |

BASEMAP MODIFIED FROM:
Smith & Welland/Cline-Fraizer Survey, August 2008

| Screening Levels for Soil Samples | | |
|---|---|---|
| *Analyte* | *Residential Soil MSSL (0-6" bgs) (mg/kg)* | *DAF (6"-Groundwater) (mg/kg)* |
| Aldrin | 0.029 | 0.02 |
| alpha-BHC | 0.09 | 0.00003 |
| beta-BHC | 0.32 | 0.0001 |
| Chlordane (technical) | 1.6 | 0.5 |
| Dieldrin | 0.03 | 0.0002 |
| Endrin | 18 | 0.05 |
| gamma-BHC (Lindane) | 0.44 | 0.0005 |
| Methoxychlor | 310 | 8 |
| Dinoseb | 61 | NA |

| | |
|---|---|
| | Sample Result Exceeds Residential Soil (0-6") MSSL |
| | Sample Result Exceeds Soil Dilution Attenuation Factor (DAF) |
| | Sample Result Exceeds Both Soil MSSL and DAF |

| Screening Levels for Groundwater Samples | | |
|---|---|---|
| *Analyte* | *Primary Drinking Water Standard (ug/L)* | *Region 6 TapWater MSSL (ug/l)* |
| alpha-BHC | None | 0.011 |
| beta-BHC | None | 0.037 |

| | |
|---|---|
| | Sample Result Exceeds the Primary Drinking Water Standard |
| | Sample Result Exceeds the Tap Water MSSL |
| | Sample Result Exceeds Both the Primary Drinking Water Standard and the Tap Water MSSL |

## EXPLANATION

- Perched Well Location
- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location

GDPT-5 DIRECT PUSH LOCATION

TW-1 TEMPORARY WELL LOCATION

SUSPECT WASTE BURIAL AREA IDENTIFIED BY ADEQ

DPT-2, DPT-18, DPT-39 ADEQ EXPANDED PROTOCOL

Sample ID with Depth

| DPT-10 (0-4') | 3/27/2008 |
|---|---|
| 1,2-Dichloroethane | 0.4 mg/kg |
| Tetrachloroethene | 2.1 mg/kg |
| Trichloroethene | 0.0066 J mg/kg |

Concentration of Analytes Detected above Screening Levels

**ND** - VOCs Not Detected above Screening Levels

**NA** - Sample Not Collected

**TBP** - To be Plugged and Abandoned

0 80
APPROXIMATE SCALE IN FEET

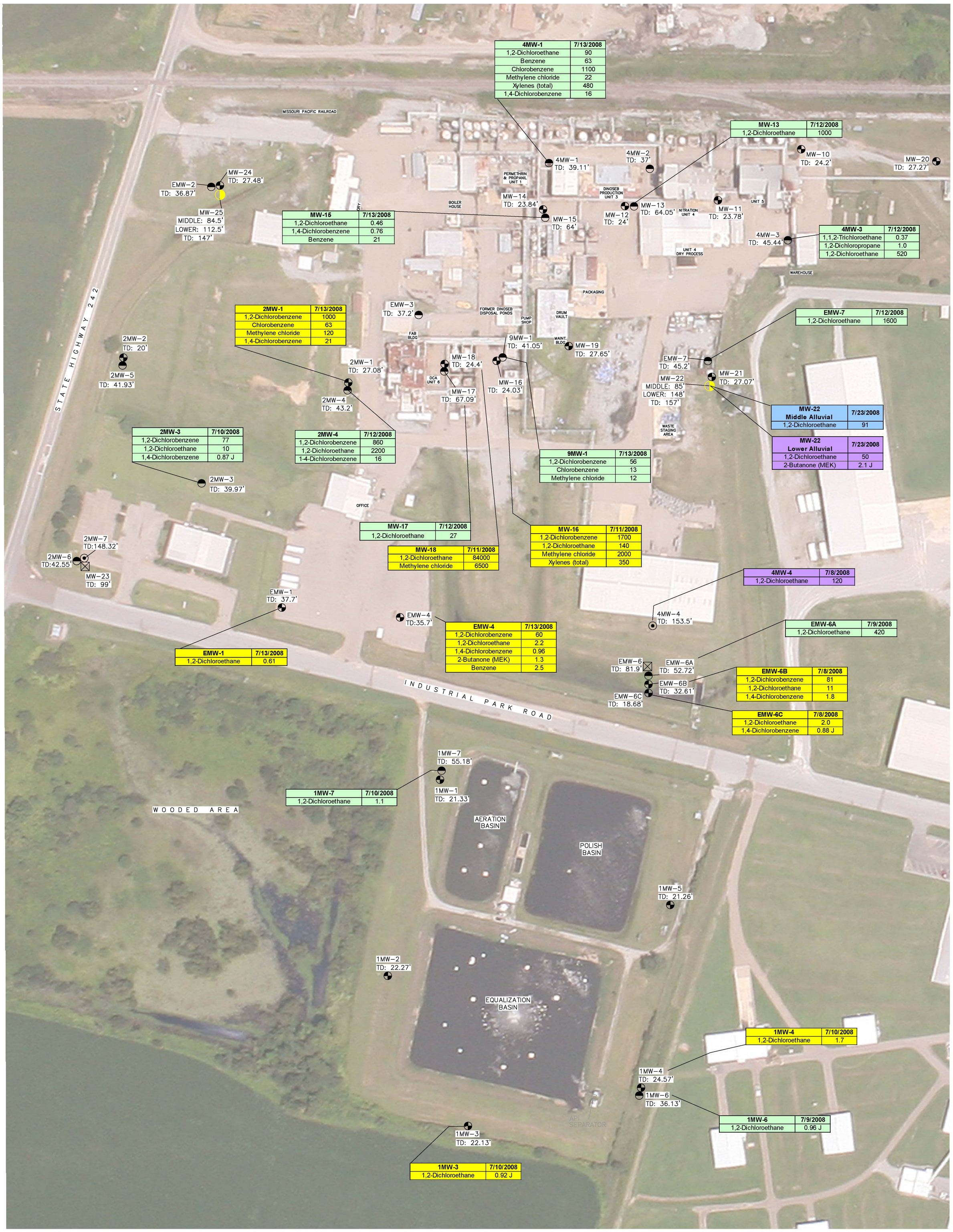
Pesticides/Herbicides in Soil and Groundwater
DPT Investigation March 2008

Cedar Chemical
Helena-West Helena, Arkansas

By: MLS | Date: 10/1/08 | Project No. 13636

AMEC Geomatrix

Figure 7




| 4MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichloroethane | 90 |
| Benzene | 63 |
| Chlorobenzene | 1100 |
| Methylene chloride | 22 |
| Xylenes (total) | 480 |
| 1,4-Dichlorobenzene | 16 |

| MW-13 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 1000 |

| MW-15 | 7/13/2008 |
|---|---|
| 1,2-Dichloroethane | 0.46 |
| 1,4-Dichlorobenzene | 0.76 |
| Benzene | 21 |

| 4MW-3 | 7/12/2008 |
|---|---|
| 1,1,2-Trichloroethane | 0.37 |
| 1,2-Dichloropropane | 1.0 |
| 1,2-Dichloroethane | 520 |

| 2MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1000 |
| Chlorobenzene | 63 |
| Methylene chloride | 120 |
| 1,4-Dichlorobenzene | 21 |

| EMW-7 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 1600 |

| MW-22 Middle Alluvial | 7/23/2008 |
|---|---|
| 1,2-Dichloroethane | 91 |

| MW-22 Lower Alluvial | 7/23/2008 |
|---|---|
| 1,2-Dichloroethane | 50 |
| 2-Butanone (MEK) | 2.1 J |

| 2MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichlorobenzene | 77 |
| 1,2-Dichloroethane | 10 |
| 1,4-Dichlorobenzene | 0.87 J |

| 2MW-4 | 7/12/2008 |
|---|---|
| 1,2-Dichlorobenzene | 860 |
| 1,2-Dichloroethane | 2200 |
| 1-4-Dichlorobenzene | 16 |

| 9MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 56 |
| Chlorobenzene | 13 |
| Methylene chloride | 12 |

| MW-17 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 27 |

| MW-16 | 7/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1700 |
| 1,2-Dichloroethane | 140 |
| Methylene chloride | 2000 |
| Xylenes (total) | 350 |

| MW-18 | 7/11/2008 |
|---|---|
| 1,2-Dichloroethane | 84000 |
| Methylene chloride | 6500 |

| 4MW-4 | 7/8/2008 |
|---|---|
| 1,2-Dichloroethane | 120 |

| EMW-6A | 7/9/2008 |
|---|---|
| 1,2-Dichloroethane | 420 |

| EMW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichloroethane | 0.61 |

| EMW-4 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 60 |
| 1,2-Dichloroethane | 2.2 |
| 1,4-Dichlorobenzene | 0.96 |
| 2-Butanone (MEK) | 1.3 |
| Benzene | 2.5 |

| EMW-6B | 7/8/2008 |
|---|---|
| 1,2-Dichlorobenzene | 81 |
| 1,2-Dichloroethane | 11 |
| 1,4-Dichlorobenzene | 1.8 |

| EMW-6C | 7/8/2008 |
|---|---|
| 1,2-Dichloroethane | 2.0 |
| 1,4-Dichlorobenzene | 0.88 J |

| 1MW-7 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 1.1 |

| 1MW-4 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 1.7 |

| 1MW-6 | 7/9/2008 |
|---|---|
| 1,2-Dichloroethane | 0.96 J |

| 1MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 0.92 J |

BASEMAP MODIFIED FROM:
Smith & Weiland/Cline-Fraizer Survey, August 2008

## EXPLANATION

- Perched Well Location
- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted above)

Well ID and Sample Date

| 1MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 0.92 J |

Concentration of Analyte Detected above Screening Levels

| | |
|---|---|
| | Perched Zone Well |
| | Upper Alluvial Aquifer Well |
| | Middle Alluvial Aquifer Well |
| | Lower Alluvial Aquifer Well |

0 80
APPROXIMATE SCALE IN FEET

**DRAFT - PRELIMINARY**

Concentrations are reported in micrograms per liter (µg/l)

Data shown only at locations where analyte exceeds most conservative screening level.

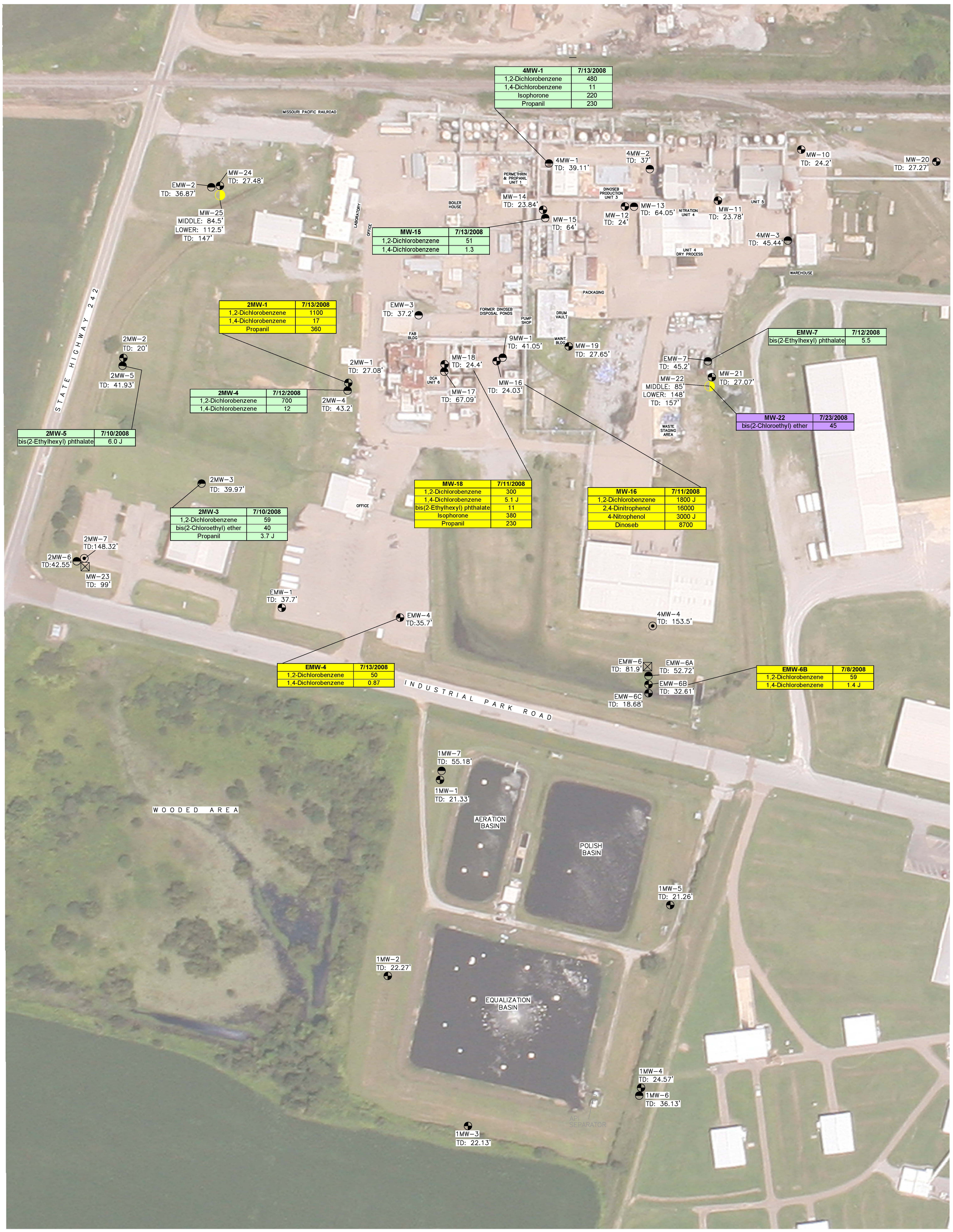
VOCs in Groundwater

Cedar Chemical
Helena-West Helena, Arkansas

By: MLS | Date: 10/1/08 | Project No. 13636

AMEC Geomatrix

Figure 8




| 4MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 480 |
| 1,4-Dichlorobenzene | 11 |
| Isophorone | 220 |
| Propanil | 230 |

| MW-15 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 51 |
| 1,4-Dichlorobenzene | 1.3 |

| 2MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1100 |
| 1,4-Dichlorobenzene | 17 |
| Propanil | 360 |

| 2MW-4 | 7/12/2008 |
|---|---|
| 1,2-Dichlorobenzene | 700 |
| 1,4-Dichlorobenzene | 12 |

| 2MW-5 | 7/10/2008 |
|---|---|
| bis(2-Ethylhexyl) phthalate | 6.0 J |

| EMW-7 | 7/12/2008 |
|---|---|
| bis(2-Ethylhexyl) phthalate | 5.5 |

| MW-22 | 7/23/2008 |
|---|---|
| bis(2-Chloroethyl) ether | 45 |

| MW-18 | 7/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 300 |
| 1,4-Dichlorobenzene | 5.1 J |
| bis(2-Ethylhexyl) phthalate | 11 |
| Isophorone | 380 |
| Propanil | 230 |

| MW-16 | 7/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1800 J |
| 2,4-Dinitrophenol | 16000 |
| 4-Nitrophenol | 3000 J |
| Dinoseb | 8700 |

| 2MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichlorobenzene | 59 |
| bis(2-Chloroethyl) ether | 40 |
| Propanil | 3.7 J |

| EMW-4 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 50 |
| 1,4-Dichlorobenzene | 0.87 |

| EMW-6B | 7/8/2008 |
|---|---|
| 1,2-Dichlorobenzene | 59 |
| 1,4-Dichlorobenzene | 1.4 J |

BASEMAP MODIFIED FROM:
Smith & Welland/Cline-Fraizer Survey, August 2008

## EXPLANATION

- Perched Well Location
- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted above)

0 80
APPROXIMATE SCALE IN FEET

Well ID and Sample Date

| 1MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 0.92 J |

Concentration of Analyte Detected above Screening Levels

| | |
|---|---|
| | Perched Zone Well |
| | Upper Alluvial Aquifer Well |
| | Middle Alluvial Aquifer Well |
| | Lower Alluvial Aquifer Well |

Concentrations are reported in micrograms per liter (µg/l)

Data shown only at locations where analyte exceeds most conservative screening level.

DRAFT - PRELIMINARY

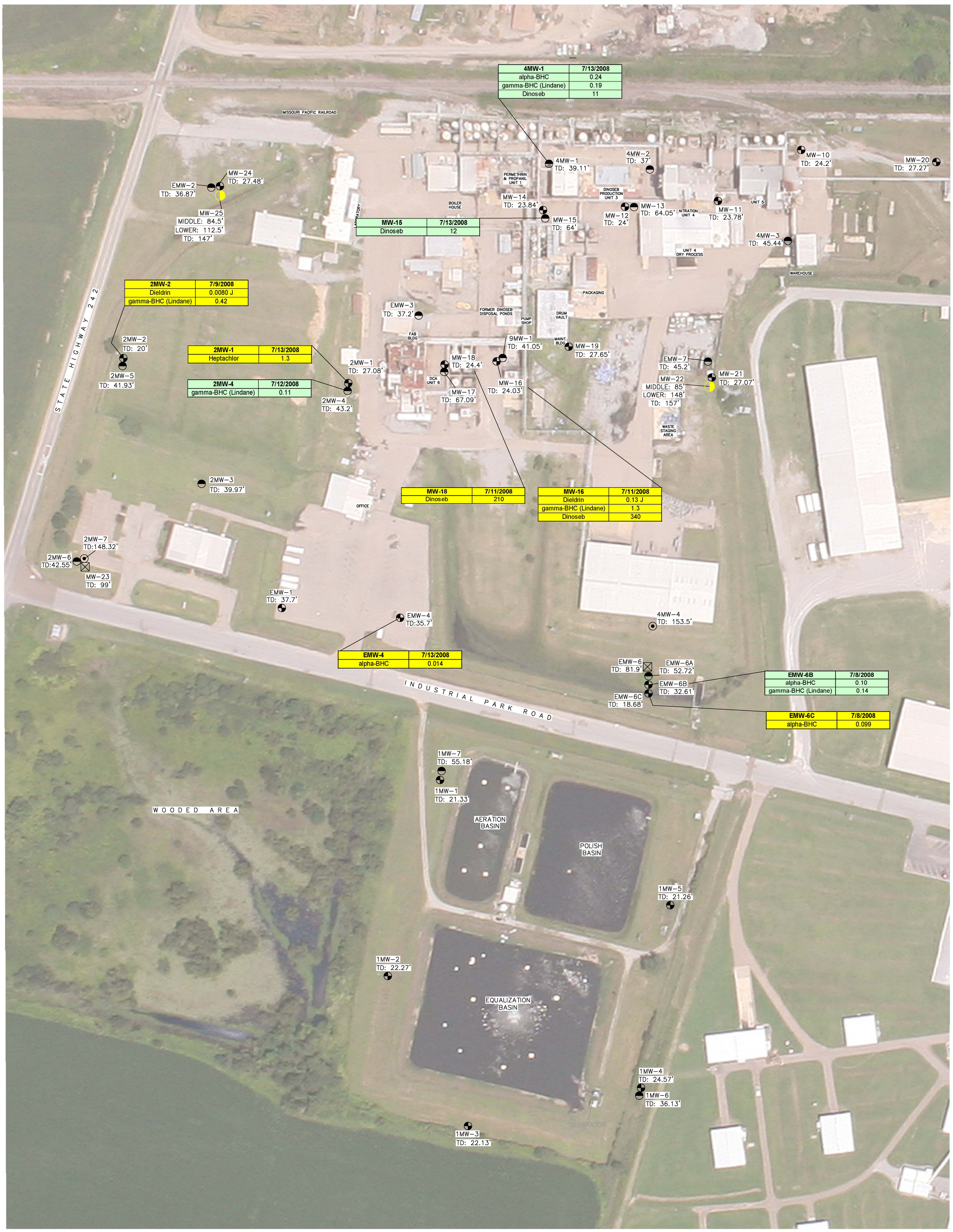
SVOCs in Groundwater

Cedar Chemical
Helena-West Helena, Arkansas

By: MLS | Date: 10/1/08 | Project No. 13636

AMEC Geomatrix

Figure 9




| 4MW-1 | 7/13/2008 |
|---|---|
| alpha-BHC | 0.24 |
| gamma-BHC (Lindane) | 0.19 |
| Dinoseb | 11 |

| MW-15 | 7/13/2008 |
|---|---|
| Dinoseb | 12 |

| 2MW-2 | 7/9/2008 |
|---|---|
| Dieldrin | 0.0080 J |
| gamma-BHC (Lindane) | 0.42 |

| 2MW-1 | 7/13/2008 |
|---|---|
| Heptachlor | 1.3 |

| 2MW-4 | 7/12/2008 |
|---|---|
| gamma-BHC (Lindane) | 0.11 |

| MW-18 | 7/11/2008 |
|---|---|
| Dinoseb | 210 |

| MW-16 | 7/11/2008 |
|---|---|
| Dieldrin | 0.13 J |
| gamma-BHC (Lindane) | 1.3 |
| Dinoseb | 340 |

| EMW-4 | 7/13/2008 |
|---|---|
| alpha-BHC | 0.014 |

| EMW-6B | 7/8/2008 |
|---|---|
| alpha-BHC | 0.10 |
| gamma-BHC (Lindane) | 0.14 |

| EMW-6C | 7/8/2008 |
|---|---|
| alpha-BHC | 0.099 |

BASEMAP MODIFIED FROM:
Smith & Weiland/Cline-Fraizer Survey, August 2008

## EXPLANATION

- Perched Well Location
- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted above)

0 80
APPROXIMATE SCALE IN FEET

Well ID and Sample Date

| 1MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 0.92 J |

Concentration of Analyte Detected above Screening Levels

| | |
|---|---|
| | Perched Zone Well |
| | Upper Alluvial Aquifer Well |
| | Middle Alluvial Aquifer Well |
| | Lower Alluvial Aquifer Well |

Concentrations are reported in micrograms per liter (µg/l)

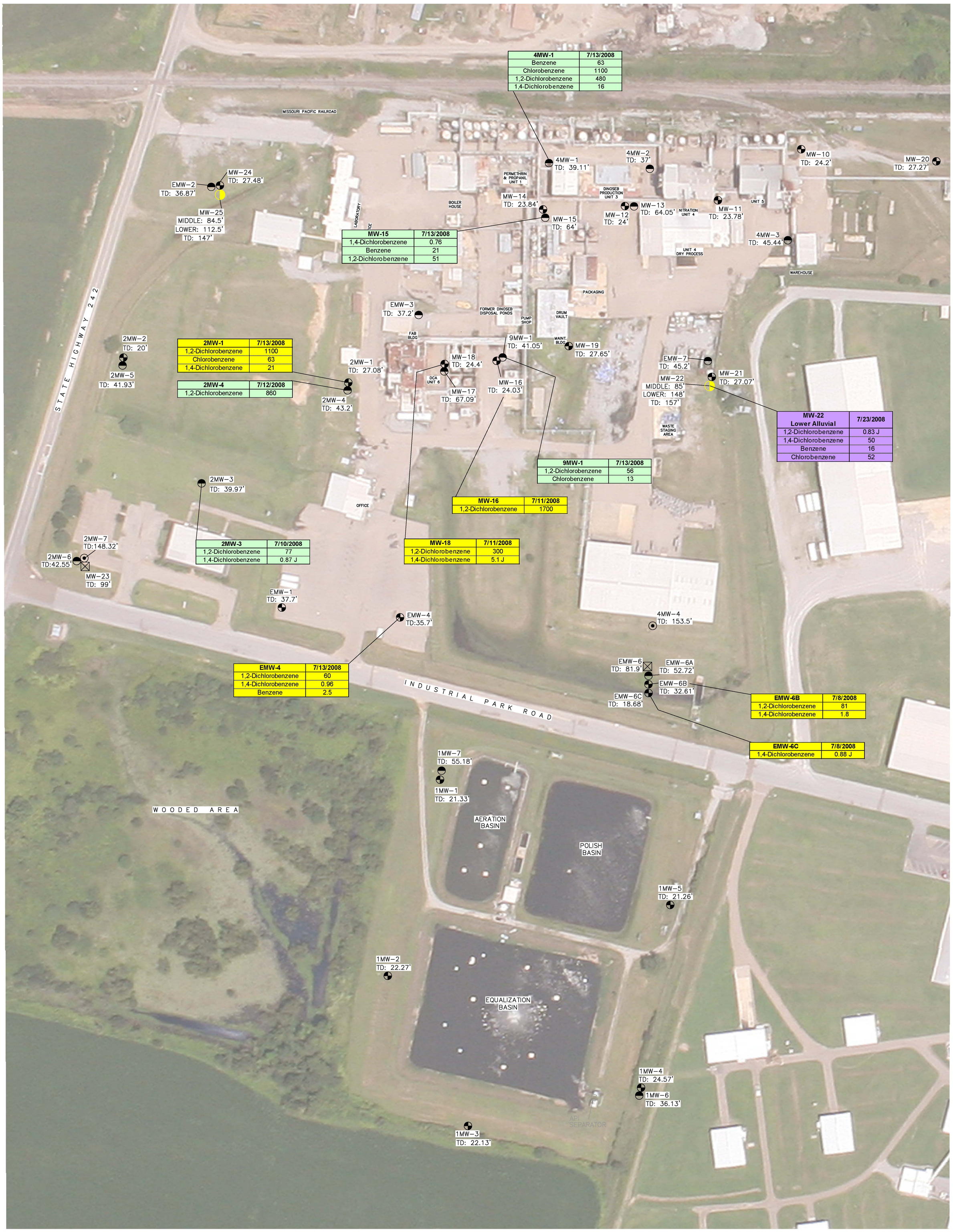
Data shown only at locations where analyte exceeds most conservative screening level.

DRAFT - PRELIMINARY

Pesticides and Herbicides in Groundwater

Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 10 |




| 4MW-1 | 7/13/2008 |
|---|---|
| Benzene | 63 |
| Chlorobenzene | 1100 |
| 1,2-Dichlorobenzene | 480 |
| 1,4-Dichlorobenzene | 16 |

| MW-15 | 7/13/2008 |
|---|---|
| 1,4-Dichlorobenzene | 0.76 |
| Benzene | 21 |
| 1,2-Dichlorobenzene | 51 |

| 2MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1100 |
| Chlorobenzene | 63 |
| 1,4-Dichlorobenzene | 21 |

| 2MW-4 | 7/12/2008 |
|---|---|
| 1,2-Dichlorobenzene | 860 |

| MW-22 Lower Alluvial | 7/23/2008 |
|---|---|
| 1,2-Dichlorobenzene | 0.83 J |
| 1,4-Dichlorobenzene | 50 |
| Benzene | 16 |
| Chlorobenzene | 52 |

| 9MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 56 |
| Chlorobenzene | 13 |

| MW-16 | 7/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 1700 |

| 2MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichlorobenzene | 77 |
| 1,4-Dichlorobenzene | 0.87 J |

| MW-18 | 7/11/2008 |
|---|---|
| 1,2-Dichlorobenzene | 300 |
| 1,4-Dichlorobenzene | 5.1 J |

| EMW-4 | 7/13/2008 |
|---|---|
| 1,2-Dichlorobenzene | 60 |
| 1,4-Dichlorobenzene | 0.96 |
| Benzene | 2.5 |

| EMW-6B | 7/8/2008 |
|---|---|
| 1,2-Dichlorobenzene | 81 |
| 1,4-Dichlorobenzene | 1.8 |

| EMW-6C | 7/8/2008 |
|---|---|
| 1,4-Dichlorobenzene | 0.88 J |

BASEMAP MODIFIED FROM:
Smith & Weiland/Cline-Fraizer Survey, August 2008

## EXPLANATION

- Perched Well Location
- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted above)

Well ID and Sample Date

| 1MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 0.92 J |

Concentration of Analyte Detected above Screening Levels

| | |
|---|---|
| | Perched Zone Well |
| | Upper Alluvial Aquifer Well |
| | Middle Alluvial Aquifer Well |
| | Lower Alluvial Aquifer Well |

0 80
APPROXIMATE SCALE IN FEET

Concentrations are reported in micrograms per liter (µg/l)

Data shown only at locations where analyte exceeds most conservative screening level.

**DRAFT - PRELIMINARY**

Chlorobenzenes in Groundwater

Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 11 |

| 4MW-1 | 7/13/2008 |
|---|---|
| 1,2-Dichloroethane | 90 |

| MW-15 | 7/13/2008 |
|---|---|
| 1,2-Dichloroethane | 0.46 |

| MW-13 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 1000 |

| 4MW-3 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 520 |

| MW-17 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 27 |

| 2MW-4 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 2200 |

| EMW-7 | 7/12/2008 |
|---|---|
| 1,2-Dichloroethane | 1600 |

| MW-22 Middle Alluvial | 7/23/2008 |
|---|---|
| 1,2-Dichloroethane | 91 |

| MW-22 Lower Alluvial | 7/23/2008 |
|---|---|
| 1,2-Dichloroethane | 50 |

| 2MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 10 |

| 4MW-4 | 7/8/2008 |
|---|---|
| 1,2-Dichloroethane | 120 |

| EMW-6A | 7/9/2008 |
|---|---|
| 1,2-Dichloroethane | 420 |

| OFF-MW-6 Upper Alluvial | 7/25/2008 |
|---|---|
| 1,2-Dichloroethane | 6100 |

| OFF-MW-6 Middle Alluvial | 7/25/2008 |
|---|---|
| 1,2-Dichloroethane | 15000 |

| OFF-MW-6 Lower Alluvial | 7/25/2008 |
|---|---|
| 1,2-Dichloroethane | 1200 |

| 1MW-7 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 1.1 |

| 1MW-6 | 7/9/2008 |
|---|---|
| 1,2-Dichloroethane | 0.96 J |

| OFF-MW-8 Upper Alluvial | 7/24/2008 |
|---|---|
| 1,2-Dichloroethane | 2100 |

| OFF-MW-8 Middle Alluvial | 7/24/2008 |
|---|---|
| 1,2-Dichloroethane | 2900 |

| OFF-MW-7 Middle Alluvial | 7/24/2008 |
|---|---|
| 1,2-Dichloroethane | 48 |

| OFF-MW-3 | Apr-08 |
|---|---|
| 1,2-Dichloroethane | 33 |

| OFF-MW-4 | Apr-08 |
|---|---|
| 1,2-Dichloroethane | 100 |

***EXPLANATION***

- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted)

Well ID and Sample Date

| 1MW-3 | 7/10/2008 |
|---|---|
| 1,2-Dichloroethane | 0.92 J |

Concentration of Analyte Detected above Screening Levels

**Concentrations are reported in micrograms per liter (µg/l)**

**Data shown only at locations where analyte exceeds most conservative screening level.**

BASEMAP MODIFIED FROM:
Smith & Welland/Cine-Frazer Survey, August 2008

0 125 250
Approximate Scale in Feet

**DRAFT - PRELIMINARY**

1,2-Dichloroethane in Alluvial Aquifer Groundwater
Cedar Chemical
Helena-West Helena, Arkansas

By: MLS | Date: 10/1/08 | Project No. 13636.000

AMEC Geomatrix | Figure 12

Plot Date: 10/06/08 - 4:06pm, Plotted by: mschofield
Drawing Path: \113636 - Arkansas Helena-West Helena\FIGURES\, Drawing Name: Offsite Chemical Maps.dwg

10/06/08 Offsite Chemical Maps.dwg

| TEST HOLE 1 Groundwater (µg/l) | 7/9/2008 |
|---|---|
| Aluminum | 921 |
| Arsenic | 146 |
| Iron | 179000 |
| Lead | 27.7 |
| Manganese | 13200 |
| alpha-BHC | 0.26 J |
| 1,2-Dichlorobenzene | 54 J |
| 1,3-Dichlorobenzene | 62 J |
| 1,4-Dichlorobenzene | 650 |
| Acetone | 91000 |
| Methylene chloride | 53 J |
| Toluene | 6200 |
| 1,2,4-Trichlorobenzene | 520 |
| 1,2-Dichlorobenzene | 62 J |
| 1,3-Dichlorobenzene | 72 J |
| 1,4-Dichlorobenzene | 790 |
| 2,4-Dimethylphenol | 1300 |
| 2-Chlorophenol | 41 J |
| Methylphenol | 230 J |
| 4-Chloroaniline | 47000 |
| Dinoseb | 350 J |
| Phenol | 13000 |
| Propanil | 2800 |

| TW-8 Groundwater (µg/l) | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 280 |
| Methylene chloride | 58 |
| Toluene | 2100 |

| TEST HOLE 1 Soil (mg/kg) | 7/9/2008 |
|---|---|
| Antimony | 0.45 B J |
| Arsenic | 13.9 |
| Chromium | 7.6 J |
| Nickel | 11.5 |
| 1,2,4-Trichlorobenzene | 0.66 |
| 1,4-Dichlorobenzene | 0.55 |
| 4-Chloroaniline | 11 |

| TW-5 Groundwater (µg/l) | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 450 |
| 1,2-Dichloroethane | 380 |
| Acetone | 18000 |
| Methylene chloride | 53 |

| TEST HOLE 4 Soil (mg/kg) | 7/9/2008 |
|---|---|
| Arsenic | 43.6 |
| Chromium | 4.6 J |
| Nickel | 8.1 |
| Methoxychlor | 26 |
| 1,2-Dichlorobenzene | 17 |
| 1,4-Dichlorobenzene | 7.0 J |
| Acetone | 270 |
| Ethylbenzene | 40 |
| o-Xylene | 21 |
| Toluene | 420 |
| Xylenes (total) | 140 |
| Benzene, 1,2,4-trichloro- | 42 |
| 1,2,4-Trichlorobenzene | 3.6 |
| 1,2-Dichlorobenzene | 0.98 |
| 1,4-Dichlorobenzene | 0.50 |
| Isophorone | 0.42 |

| TW-6 Groundwater (µg/l) | 3/31/2008 |
|---|---|
| Heptachlor epoxide | 1.2 J |
| 1,1,2-Trichloroethane | 1.5 |
| 1,2-Dichlorobenzene | 350 |
| 1,2-Dichloroethane | 2100 |
| 1,2-Dichloropropane | 20 |
| 1,4-Dichlorobenzene | 10 |
| Benzene | 0.83 J |
| Carbon tetrachloride | 1.6 |
| Chloroform | 66 |
| Methylene chloride | 6300 |
| Vinyl chloride | 1.1 J |
| 2,4-Dinitrophenol | 12000 |
| Dinoseb | 22000 |
| Propanil | 9300 |

| TEST HOLE 3 Soil (mg/kg) | 7/9/2008 |
|---|---|
| Arsenic | 8.2 |
| Barium | 126 J |
| Chromium | 14.0 J |
| Nickel | 19.9 |
| Methoxychlor | 36 |
| 1,2-Dichlorobenzene | 3.5 |
| Acetone | 1300 |
| Ethylbenzene | 11 |
| o-Xylene | 27 |
| Toluene | 490 |
| Xylenes (total) | 120 |
| 1,2,4-Trichlorobenzene | 5.2 |
| 1,2-Dichlorobenzene | 1.6 J |
| 1,4-Dichlorobenzene | 0.43 J |
| Isophorone | 1.1 J |

| TEST HOLE 2 Soil (mg/kg) | 7/9/2008 |
|---|---|
| Arsenic | 2.9 |
| Chromium | 7.6 J |
| Nickel | 12.8 |
| Methoxychlor | 910 |
| Acetone | 740 |
| Toluene | 510 |
| Xylenes (total) | 46 J |
| 1,2,4-Trichlorobenzene | 1.9 |
| 1,2-Dichlorobenzene | 1.7 |
| 1,4-Dichlorobenzene | 0.18 J |
| 2-Methylphenol | 0.89 |
| 4-Chloroaniline | 5.0 |
| Isophorone | 0.27 J |

| TW-7 Groundwater (µg/l) | 4/22/2008 |
|---|---|
| 1,2-Dichlorobenzene | 130 |
| 1,2-Dichloroethane | 7.0 J |
| 1,4-Dichlorobenzene | 5.1 J |
| Acetone | 7500 |

## EXPLANATION

TEST HOLE 1 — Drum Vault Sample Location

TW -5 — Temporary Well

mg/kg — milligrams per kilogram
ug/l — micrograms per liter

**NOTES: Soil samples were composite and collected from 0 to 2' bgs.**

**Data shown only at locations where analyte exceeds most conservative screening level.**

**Data Preliminary - Not Yet Validated**

| | |
|---|---|
| | Soil Results |
| | Groundwater Results |

DRAFT - PRELIMINARY

0 25 50
Approximate Scale in Feet

Drum Vault Soil and Groundwater Results
Cedar Chemical
Helena- West Helena, Arkansas

| By: MLS | Date: 8/13/08 | Project No. 13636.000 |
|---|---|---|
| AMEC Geomatrix | | Figure 13 |

Plot Date: 10/08/08 - 1:04pm, Plotted by: mschofield
Drawing Path: \13636 - Arkansas Helena-West Helena\FIGURES\, Drawing Name: Drum Vault Data.dwg

***EXPLANATION***

- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted)
- A —— A' Cross Section Location Line

BASEMAP MODIFIED FROM:
Smith & Weland/Cine-Frazer Survey, August 2008

0 125 250
Approximate Scale in Feet

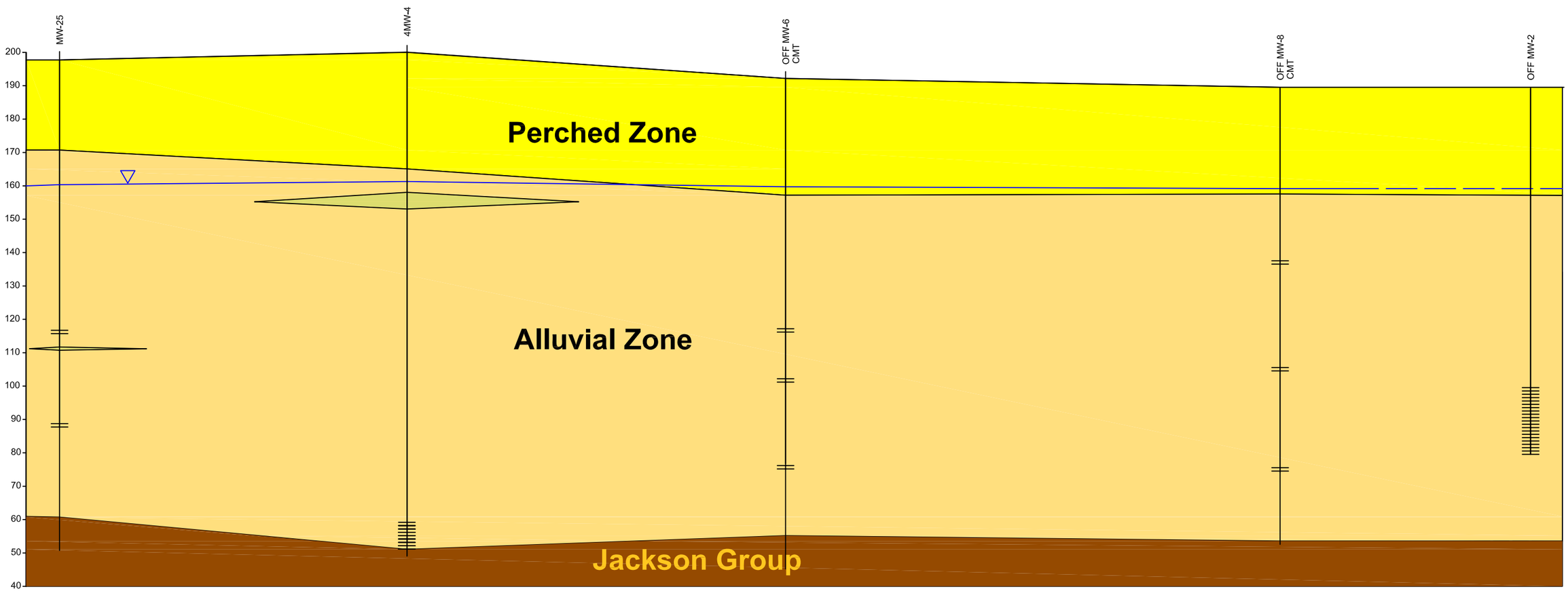
DRAFT - PRELIMINARY

Cross Section Location Map
Cedar Chemical
Helena-West Helena, Arkansas

| By: MLS | Date: 10/1/08 | Project No. 13636.000 |
|---|---|---|
| AMEC Geomatrix | | Figure 14 |

Plot Date: 10/06/08 - 4:15pm, Plotted by: mschofield
Drawing Path: \13636 - Arkansas Helena-West Helena\FIGURES\, Drawing Name: Cross Section Location Map.dwg

10/06/08 Cross Section Location Map.dwg




0 250 500

APPROXIMATE HORIZONTAL SCALE IN FEET

LEGEND

- Perched Zone: Predominantly Silty Clay (CL)
- Alluvial Zone: fine to coarse sand with gravel and cobble
- Confining Unit (Jackson Group): Dark gray to dark brown clay (CL) or black peat (PT)
- Clay Lens

Water Level

Note: Groundwater elevation from July 21-22, 2008 gauging event

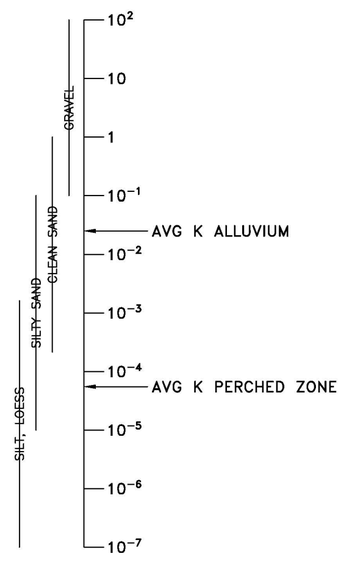
DRAFT CROSS-SECTION A-A'

Cedar Chemical
Helena-West Helena, Arkansas

| By: JCB | Date: 10/1/2008 | Project No. 13636.000 |
|---|---|---|
| AMEC Geomatrix | | Figure 15 |

BASEMAP MODIFIED FROM:
Smith & Weiland/Cline-Fraizer Survey, August 2008

RANGE OF VALUES OF HYDRAULIC CONDUCTIVITY K (cm/s)




## EXPLANATION

- Perched Well Location
- Upper Alluvial Well Location
- Middle Alluvial Well Location
- Lower Alluvial Well Location
- CMT Well with multiple completions (depths noted above)
- STEP-TEST RESULTS (ALLUVIAL AQUIFER)
- SLVG-TEST RESULTS (PERCHED ZONE)

0 80
APPROXIMATE SCALE IN FEET

DRAFT

AQUIFER TESTING RESULTS

Cedar Chemical
Helena-West Helena, Arkansas

| By: HCS | Date: 10/1/08 | Project No. 13636 |
|---|---|---|
| AMEC Geomatrix | | Figure 16 |

# TABLES

# TABLE 1

Groundwater Elevation Data

# Table 1
## Groundwater Elevation Data
## Cedar Chemical Corporation Facility
## Helena - West Helena, Arkansas
## Project 13636

| Well Description | Date | Top of Casing Elevation (feet) | Depth to Water (feet) | Total Depth | Water Column Thickness | Depth to Phase Separated Hydrocarbon (feet) | Phase Separated Hydrocarbon Thickness (feet) | Corrected Groundwater Elevation (feet) | Screened Interval (feet) | Northing | Easting |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Perched Zone Monitoring Wells** | | | | | | | | | | | |
| 1MW-1 | 07/21/08 | 196.07 | 15.35 | 21.33 | 5.98 | NP | 0.00 | **180.72** | 10 | 4385.55 | 5214.78 |
| 1MW-2 | 07/21/08 | 194.98 | 14.53 | 22.27 | 7.74 | NP | 0.00 | **180.45** | 10 | 4162.55 | 4929.75 |
| 1MW-3 | 07/21/08 | 192.13 | 16.59 | 22.13 | 5.54 | NP | 0.00 | **175.54** | 10 | 3875.03 | 4883.22 |
| 1MW-4 | 07/21/08 | 192.45 | 14.55 | 24.57 | 10.02 | NP | 0.00 | **177.90** | 10 | 3748.74 | 5157.03 |
| 1MW-5 | 07/21/08 | 194.73 | 13.89 | 21.26 | 7.37 | NP | 0.00 | **180.84** | 10 | 3965.53 | 5383.92 |
| 2MW-1 | 07/21/08 | 201.64 | 24.02 | 27.08 | 3.06 | NP | 0.00 | **177.62** | 10 | 5006.34 | 5491.83 |
| 2MW-2 | 07/21/08 | 200.33 | 25.7 | 27.08 | 1.38 | NP | 0.00 | **174.63** | 10 | 5273.4 | 5213.15 |
| EMW-6C | 07/22/08 | 198.71 | 15.22 | 18.68 | 3.46 | NP | 0.00 | **183.49** | No Log | 4296.69 | 5589.88 |
| MW-10 | 07/21/08 | 199.13 | 23.81 | 24.2 | 0.39 | NP | 0.00 | **175.32** | 10 | 4853.04 | 6346.63 |
| MW-11 | 07/22/08 | Not Surveyed | 23.57 | 23.78 | 0.21 | NP | 0.00 | **--** | 10 | Not Surveyed | Not Surveyed |
| MW-12 | 07/22/08 | 197.93 | 23.79 | 24 | 0.21 | NP | 0.00 | **174.14** | 10 | 4958.78 | 6048.91 |
| MW-14 | 07/22/08 | 197.45 | 23.45 | 23.84 | 0.39 | NP | 0.00 | **174.00** | 10 | 5038.49 | 5935.06 |
| MW-16 | 07/22/08 | 196.17 | 18.04 | 24.03 | 5.99 | NP | 0.00 | **178.13** | 10 | 4880.22 | 5716.15 |
| MW-18 | 07/22/08 | 198.26 | 18.29 | 24.4 | 6.11 | NP | 0.00 | **179.97** | 10 | 4931.87 | 5640.81 |
| MW-19 | 07/22/08 | 201.25 | 27.26 | 27.65 | 0.39 | NP | 0.00 | **173.99** | 10 | 4827.17 | 5827.8 |
| MW-20 | 07/21/08 | 202.12 | 26.82 | 27.27 | 0.45 | NP | 0.00 | **175.30** | 10 | 4695.31 | 6516.84 |
| MW-21 | 07/21/08 | 199.96 | 26.8 | 27.07 | 0.27 | NP | 0.00 | **173.16** | 10 | 4637.21 | 5989.37 |
| MW-24 | 07/21/08 | 200.64 | 27.24 | 27.48 | 0.24 | NP | 0.00 | **173.40** | 10 | 5399.15 | 5514.37 |
| **Upper Alluvial Wells** | | | | | | | | | | | |
| 1MW-6 | 07/21/08 | 192.55 | 31.38 | 36.13 | 4.75 | NP | 0.00 | **161.17** | 10 | 3746.22 | 5153.65 |
| 1MW-7 | 07/21/08 | 196.06 | 34.45 | 55.18 | 20.73 | NP | 0.00 | **161.61** | 10 | 4375.16 | 5205.46 |
| 2MW-3 | 07/22/08 | 199.32 | 36.89 | 39.97 | 3.08 | NP | 0.00 | **162.43** | 10 | 5022.01 | 5189.31 |
| 2MW-4 | 07/21/08 | 201.78 | 39.53 | 43.2 | 3.67 | NP | 0.00 | **162.25** | 10 | 5003.11 | 5488.98 |
| 2MW-5 | 07/21/08 | 200.63 | 37.77 | 41.93 | 4.16 | NP | 0.00 | **162.86** | 10 | 5270.93 | 5210.6 |
| 2MW-6 | 07/22/08 | 199.02 | 36.43 | 42.55 | 6.12 | NP | 0.00 | **162.59** | 10 | 5046.32 | 4943.12 |
| 4MW-1 | 07/22/08 | 198.29 | 36.12 | 39.11 | 2.99 | NP | 0.00 | **162.17** | 10 | 5095.31 | 5990.88 |
| 4MW-3 | 07/22/08 | 201.54 | 39.82 | 45.44 | 5.62 | NP | 0.00 | **161.72** | 10 | 4742.8 | 6234.52 |
| 9MW-1 | 07/22/08 | 196.55 | 34.51 | 41.05 | 6.54 | NP | 0.00 | **162.04** | 10 | 4880.43 | 5726.26 |
| EMW-1 | 07/22/08 | 198.78 | 22.62 | 37.7 | 15.08 | NP | 0.00 | **176.16** | No Log | 4771.2 | 5168.17 |
| EMW-2 | 07/21/08 | 200.52 | 36.38 | 36.87 | 0.49 | NP | 0.00 | **164.14** | No Log | 5412.17 | 5511.72 |
| EMW-3 | 07/22/08 | 199.1 | DRY | 37.32 | 0 | NP | 0.00 | **--** | No Log | 4662.92 | 6000.27 |
| EMW-4 | 07/22/08 | 198.71 | 15.73 | 35.75 | 20.02 | NP | 0.00 | **182.98** | No Log | 4635.49 | 5318.64 |
| EMW-6 | 07/22/08 | 200.13 | 38.79 | 81.9 | 43.11 | NP | 0.00 | **161.34** | No Log | 4309.08 | 5599.86 |
| EMW-6A | 07/22/08 | 199.11 | 37.73 | 52.72 | 14.99 | NP | 0.00 | **161.38** | No Log | 4304.8 | 5595.51 |
| EMW-6B | 07/22/08 | 198.67 | 15.38 | 32.61 | 17.23 | NP | 0.00 | **183.29** | No Log | 4300.07 | 5592.97 |
| EMW-7 | 07/22/08 | Not Surveyed | 37.31 | 45.2 | 7.89 | NP | 0.00 | **--** | No Log | Not Surveyed | Not Surveyed |
| MW-13 | 07/22/08 | 198.05 | 36.09 | 64.05 | 27.96 | NP | 0.00 | **161.96** | 10 | 4950.72 | 6059.23 |
| MW-15 | 07/22/08 | 197.31 | 35.24 | 64 | 28.76 | NP | 0.00 | **162.07** | 10 | 5029.93 | 5935.07 |
| MW-17 | 07/22/08 | 198.1 | 35.99 | 67.09 | 31.1 | NP | 0.00 | **162.11** | 10 | 4922.92 | 5633.59 |
| OFF-MW-5 (upper) | 07/21/08 | 194.84 | 34.5 | 71.5 | 37 | NP | 0.00 | **160.34** | 0.3 | 3878.62 | 7212.43 |
| OFF-MW-6 (upper) | 07/21/08 | 194.24 | 34.5 | 77.5 | 43 | NP | 0.00 | **159.74** | 0.3 | 3423.73 | 6287.66 |
| OFF-MW-7 (upper) | 07/22/08 | 185.91 | 27.5 | 56.5 | 29 | NP | 0.00 | **158.41** | 0.3 | 2447.83 | 4999.26 |
| OFF-MW-8 (upper) | 07/22/08 | 189.17 | 32 | 53 | 21 | NP | 0.00 | **157.17** | 0.3 | 1946.03 | 6383.22 |
| **Middle Alluvial Wells** | | | | | | | | | | | |
| MW-22 (middle) | 07/21/08 | 200 | 38.5 | 88.5 | 50 | NP | 0.00 | **161.50** | 0.3 | 4630.75 | 5988.35 |
| MW-23 | 07/22/08 | 199.36 | 36.79 | 99.3 | 62.51 | NP | 0.00 | **162.57** | 10 | 5033.54 | 4945.19 |
| MW-25 (middle) | 07/21/08 | 200.24 | 37.5 | 84.5 | 47 | NP | 0.00 | **162.74** | 0.3 | 5393.2 | 5512.27 |
| OFF-MW-5 (middle) | 07/21/08 | 194.84 | 34.5 | 102.5 | 68 | NP | 0.00 | **160.34** | 0.3 | 3878.62 | 7212.43 |
| OFF-MW-6 (middle) | 07/21/08 | 194.24 | 34.5 | 92.2 | 57.7 | NP | 0.00 | **159.74** | 0.3 | 3423.73 | 6287.66 |
| OFF-MW-7 (middle) | 07/22/08 | 185.91 | 27.5 | 86.5 | 59 | NP | 0.00 | **158.41** | 0.3 | 2447.83 | 4999.26 |
| OFF-MW-8 (middle) | 07/22/08 | 189.17 | 32 | 85 | 53 | NP | 0.00 | **157.17** | 0.3 | 1946.03 | 6383.22 |
| **Lower Alluvial Wells** | | | | | | | | | | | |
| 2MW-7 | 07/22/08 | 199.31 | 36.76 | 148.32 | 111.56 | NP | 0.00 | **162.55** | 10 | 5042.53 | 4952.44 |
| 4MW-4 | 07/22/08 | 202.58 | 41.28 | 153.5 | 112.22 | NP | 0.00 | **161.30** | 10 | 4361.98 | 5651.92 |
| MW-22 (lower) | 07/21/08 | 200 | 38.5 | 148.2 | 109.7 | NP | 0.00 | **161.50** | 0.3 | 4630.75 | 5988.35 |

# TABLE 2

Spring 2008 DPT Groundwater Sampling Results

# Table 2
## Spring 2008 DPT Groundwater Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | OFFMW-3 4/22/2008 | OFFMW-4 4/22/2008 | TW-1 3/31/2008 | TW-1 4/22/2008 | TW-2 3/31/2008 | TW-2 4/22/2008 | TW-3 4/22/2008 | TW-4 4/22/2008 | TW-5 4/22/2008 | TW-6 3/31/2008 | TW-7 4/22/2008 | TW-8 4/22/2008 | TW-9 3/31/2008 | TW-9 4/22/2008 | TW-10 4/22/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **General Chemistry Parameters** | | | | | | | | | | | | | | | | | | | | | | | |
| 2320 B | Total Alkalinity | Q18 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 275000 | -- | 352000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2320B | Bicarbonate, as CaCO3 | Q017 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 275000 | -- | 352000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 300.0A | Chloride | Q138 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 1370000 | -- | 70300 | -- | -- | -- | -- | -- | -- | -- | 1470000 | -- | -- |
| 300.0A | Fluoride | Q338 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 3550 | -- | 407 J | -- | -- | -- | -- | -- | -- | -- | 246 J | -- | -- |
| 300.0A | Nitrate as N | Q479 | UG/L | 10000 | NA | 10000 | NA | NA | | -- | -- | -- | -- | < 15 | -- | -- | -- | -- | -- | -- | -- | < 15 | -- | -- |
| 300.0A | Nitrite as N | Q481 | UG/L | 1000 | NA | 1000 | NA | NA | | -- | -- | -- | -- | < 22 | -- | -- | -- | -- | -- | -- | -- | < 22 | -- | -- |
| 300.0A | Sulfate | Q605 | UG/L | NA | 250000 | NA | NA | NA | | -- | -- | 595000 | -- | 32200 | -- | -- | -- | -- | -- | -- | -- | 661000 | -- | -- |
| 350.1 | Nitrogen, as Ammonia | Q477 | UG/L | NA | NA | 210 | NA | NA | | -- | -- | **2880** | -- | 158 | -- | -- | -- | -- | -- | -- | -- | **2010** | -- | -- |
| 9012A | Cyanide, Total | 57-12-5 | MG/L | NA | NA | 0.73 | NA | NA | | -- | -- | 0.27 | -- | < 0.0035 | -- | -- | -- | -- | -- | -- | -- | 0.0037 J | -- | -- |
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | UG/L | NA | 50 | 37000 | NA | NA | | -- | -- | 711 | -- | 7010 | -- | -- | -- | -- | 19800 | -- | -- | **85900** | -- | -- |
| 6020 | Antimony | 7440-36-0 | UG/L | 6 | NA | 15 | NA | NA | | -- | -- | 0.58 J | -- | 0.21 J | -- | -- | -- | -- | 0.71 J | -- | -- | 0.64 J | -- | -- |
| 6020 | Arsenic | 7440-38-2 | UG/L | 10 | NA | 0.045 | D004 | 5000 | | -- | -- | **42** | -- | **36.3** | -- | -- | -- | -- | **5 J** | -- | -- | **15.2** | -- | -- |
| 6020 | Barium | 7440-39-3 | UG/L | 2000 | NA | 7300 | D005 | 100000 | | -- | -- | 52 J | -- | 260 J | -- | -- | -- | -- | 74 | -- | -- | 39.9 J | -- | -- |
| 6020 | Beryllium | 7440-41-7 | UG/L | 4 | NA | 73 | NA | NA | | -- | -- | 0.074 J | -- | 0.37 J | -- | -- | -- | -- | 5.8 | -- | -- | 12.5 | -- | -- |
| 6020 | Cadmium | 7440-43-9 | UG/L | 5 | NA | 18 | D006 | 1000 | | -- | -- | 0.5 J | -- | 1.3 | -- | -- | -- | -- | **27.3** | -- | -- | 1.7 | -- | -- |
| 6020 | Calcium | 7440-70-2 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 29300 | -- | 97900 | -- | -- | -- | -- | 616000 | -- | -- | 300000 | -- | -- |
| 6020 | Chromium | 7440-47-3 | UG/L | 100 | NA | NA | D007 | 5000 | | -- | -- | 4.3 | -- | 7.1 | -- | -- | -- | -- | 53.9 | -- | -- | 107 | -- | -- |
| 6020 | Cobalt | 7440-48-4 | UG/L | NA | NA | 730 | NA | NA | | -- | -- | 83.7 | -- | 14.8 | -- | -- | -- | -- | 439 | -- | -- | 11.8 | -- | -- |
| 6020 | Copper | 7440-50-8 | UG/L | 1300 | 1000 | 1400 | NA | NA | | -- | -- | 29.7 | -- | 13.7 | -- | -- | -- | -- | 27.9 | -- | -- | 29.5 | -- | -- |
| 6020 | Iron | 7439-89-6 | UG/L | NA | 300 | 26000 | NA | NA | | -- | -- | 106 | -- | **28200** | -- | -- | -- | -- | 8030 | -- | -- | **239000** | -- | -- |
| 6020 | Lead | 7439-92-1 | UG/L | 15 | NA | 15 | D008 | 5000 | | -- | -- | 0.77 J | -- | 9.7 | -- | -- | -- | -- | 4.7 | -- | -- | **18.6** | -- | -- |
| 6020 | Magnesium | 7439-95-4 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 5480 J | -- | 29300 | -- | -- | -- | -- | 97900 | -- | -- | 96600 | -- | -- |
| 6020 | Manganese | 7439-96-5 | UG/L | NA | 50 | 1700 | NA | NA | | -- | -- | **4240** | -- | **29900** | -- | -- | -- | -- | **97600** | -- | -- | **22600** | -- | -- |
| 6020 | Nickel | 7440-02-0 | UG/L | NA | NA | 730 | NA | NA | | -- | -- | 50.9 | -- | 18.3 | -- | -- | -- | -- | **799** | -- | -- | 358 | -- | -- |
| 6020 | Potassium | 9/7/7440 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 4160 J | -- | 3480 J | -- | -- | -- | -- | 24600 | -- | -- | 9420 J | -- | -- |
| 6020 | Selenium | 7782-49-2 | UG/L | 50 | NA | 180 | D010 | 1000 | | -- | -- | 150 | -- | 25.2 | -- | -- | -- | -- | 11.4 | -- | -- | 12.2 | -- | -- |
| 6020 | Silver | 7440-22-4 | UG/L | NA | 100 | 180 | D011 | 5000 | | -- | -- | < 0.04 | -- | < 0.04 | -- | -- | -- | -- | < 0.04 | -- | -- | 0.065 J | -- | -- |
| 6020 | Sodium | 7440-23-5 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 1380000 | -- | 44200 | -- | -- | -- | -- | 1900000 | -- | -- | 431000 | -- | -- |
| 6020 | Thallium | 7440-28-0 | UG/L | 2 | NA | 2.6 | NA | NA | | -- | -- | 0.069 J | -- | 0.24 J | -- | -- | -- | -- | 1.1 | -- | -- | 1.2 | -- | -- |
| 6020 | Vanadium | 7440-62-2 | UG/L | NA | NA | 180 | NA | NA | | -- | -- | 4.2 | -- | 21.1 | -- | -- | -- | -- | 6.3 J | -- | -- | **443** | -- | -- |
| 6020 | Zinc | 7440-66-6 | UG/L | NA | 5000 | 11000 | NA | NA | | -- | -- | 30.7 | -- | 48.9 | -- | -- | -- | -- | 199 | -- | -- | 88.1 | -- | -- |
| 7470A | Mercury | 7439-97-6 | UG/L | 2 | NA | 0.63 | D009 | 200 | | -- | -- | 0.33 | -- | 0.16 J | -- | -- | -- | -- | < 0.06 | -- | -- | **1.3** | -- | -- |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | UG/L | NA | NA | 0.28 | NA | NA | | < 0.0077 | < 0.0077 | **0.94 J** | -- | < 0.079 J | -- | -- | -- | -- | < 1.1 | -- | -- | < 0.082 J | -- | -- |
| 8081A | 4,4'-DDE | 72-55-9 | UG/L | NA | NA | 0.2 | NA | NA | | < 0.0075 | < 0.0075 | < 0.72 J | -- | < 0.077 J | -- | -- | -- | -- | < 1 | -- | -- | < 0.08 J | -- | -- |
| 8081A | 4,4'-DDT | 50-29-3 | UG/L | NA | NA | 0.2 | NA | NA | | < 0.015 | < 0.015 | < 1.4 J | -- | < 0.15 J | -- | -- | -- | -- | < 2.1 | -- | -- | < 0.16 J | -- | -- |
| 8081A | Aldrin | 309-00-2 | UG/L | NA | NA | 0.004 | NA | NA | | < 0.0059 | < 0.0059 | < 0.57 J | -- | < 0.061 J | -- | -- | -- | -- | < 0.82 | -- | -- | < 0.063 J | -- | -- |
| 8081A | alpha-BHC | 319-84-6 | UG/L | NA | NA | 0.011 | NA | NA | | < 0.0053 | < 0.0053 | **1.2 J** | -- | < 0.054 J | -- | -- | -- | -- | < 0.74 | -- | -- | < 0.056 J | -- | -- |
| 8081A | alpha-Chlordane | 5103-71-9 | UG/L | NA | NA | NA | NA | NA | | < 0.0053 | < 0.0053 | < 0.51 J | -- | < 0.054 J | -- | -- | -- | -- | < 0.74 | -- | -- | < 0.056 J | -- | -- |
| 8081A | beta-BHC | 319-85-7 | UG/L | NA | NA | 0.037 | NA | NA | | < 0.0087 | < 0.0087 | < 0.84 J | -- | < 0.089 J | -- | -- | -- | -- | < 1.2 | -- | -- | < 0.093 J | -- | -- |
| 8081A | Chlordane (technical) | 57-74-9 | UG/L | 2 | NA | 0.19 | D020 | 30 | | < 0.14 | < 0.14 | < 13 J | -- | < 1.4 J | -- | -- | -- | -- | < 19 | -- | -- | < 1.5 J | -- | -- |
| 8081A | delta-BHC | 319-86-8 | UG/L | NA | NA | NA | NA | NA | | < 0.0058 | < 0.0058 | < 0.56 J | -- | 0.074 J | -- | -- | -- | -- | < 0.81 | -- | -- | 0.097 J | -- | -- |
| 8081A | Dieldrin | 60-57-1 | UG/L | NA | NA | 0.0042 | NA | NA | | < 0.0063 | < 0.0063 | **1.8 J** | -- | < 0.065 J | -- | -- | -- | -- | < 0.88 | -- | -- | < 0.067 J | -- | -- |
| 8081A | Endosulfan I | 959-98-8 | UG/L | NA | NA | NA | NA | NA | | < 0.0058 | < 0.0058 | 1.1 J | -- | < 0.06 J | -- | -- | -- | -- | < 0.81 | -- | -- | < 0.062 J | -- | -- |
| 8081A | Endosulfan II | 33213-65-9 | UG/L | NA | NA | NA | NA | NA | | < 0.007 | < 0.007 | < 0.67 J | -- | < 0.072 J | -- | -- | -- | -- | < 0.97 | -- | -- | < 0.075 J | -- | -- |
| 8081A | Endosulfan sulfate | 1031-07-8 | UG/L | NA | NA | NA | NA | NA | | < 0.0057 | < 0.0057 | < 0.55 J | -- | < 0.059 J | -- | -- | -- | -- | < 0.79 | -- | -- | < 0.061 J | -- | -- |
| 8081A | Endrin | 72-20-8 | UG/L | 2 | NA | 11 | D012 | 20 | | < 0.0079 | < 0.0079 | < 0.76 J | -- | < 0.081 J | -- | -- | -- | -- | < 1.1 | -- | -- | < 0.084 J | -- | -- |
| 8081A | Endrin aldehyde | 7421-93-4 | UG/L | NA | NA | NA | NA | NA | | < 0.0088 | < 0.0088 | < 0.85 J | -- | < 0.09 J | -- | -- | -- | -- | < 1.2 | -- | -- | 0.15 J | -- | -- |
| 8081A | Endrin ketone | 53494-70-5 | UG/L | NA | NA | NA | NA | NA | | < 0.007 | < 0.007 | < 0.67 J | -- | < 0.072 J | -- | -- | -- | -- | < 0.97 | -- | -- | 0.077 J | -- | -- |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | UG/L | 0.2 | NA | 0.052 | D013 | 400 | | < 0.0069 | < 0.0069 | < 0.66 J | -- | < 0.071 J | -- | -- | -- | -- | < 0.96 | -- | -- | < 0.073 J | -- | -- |
| 8081A | gamma-Chlordane | 5103-74-2 | UG/L | NA | NA | NA | NA | NA | | < 0.0091 | < 0.0091 | < 0.87 J | -- | < 0.093 J | -- | -- | -- | -- | < 1.3 | -- | -- | < 0.097 J | -- | -- |
| 8081A | Heptachlor | 76-44-8 | UG/L | 0.4 | NA | 0.015 | D031 | 8 | | < 0.0077 | < 0.0077 | < 0.74 J | -- | < 0.079 J | -- | -- | -- | -- | < 1.1 | -- | -- | < 0.082 J | -- | -- |
| 8081A | Heptachlor epoxide | 1024-57-3 | UG/L | 0.2 | NA | 0.0074 | NA | NA | | < 0.0075 | < 0.0075 | < 0.72 J | -- | < 0.077 J | -- | -- | -- | -- | **1.2 J** | -- | -- | **0.37 J** | -- | -- |
| 8081A | Methoxychlor | 72-43-5 | UG/L | 40 | NA | 180 | D014 | 10000 | | < 0.013 | < 0.013 | < 1.2 J | -- | < 0.13 J | -- | -- | -- | -- | < 1.8 | -- | -- | < 0.14 J | -- | -- |
| 8081A | Toxaphene | 8001-35-2 | UG/L | 3 | NA | 0.061 | D015 | 500 | | < 0.37 | < 0.37 | < 35 J | -- | < 3.8 J | -- | -- | -- | -- | < 51 | -- | -- | < 3.9 J | -- | -- |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | UG/L | 7 | NA | 37 | NA | NA | | < 0.24 | < 0.24 | **70 J** | -- | **730 J** | -- | -- | -- | -- | **4200** | -- | -- | **49 J** | -- | -- |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | UG/L | 200 | NA | 840 | NA | NA | | < 0.36 | < 0.36 | < 180 | < 3600 | < 0.36 | < 0.36 | < 360 | < 1800 | < 7.2 | < 0.36 | < 3.6 | < 18 | < 0.72 | < 1.8 | < 3600 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | UG/L | NA | NA | 0.055 | NA | NA | | < 0.31 | < 0.31 | < 160 | < 3100 | < 0.31 | < 0.31 | < 310 | < 1600 | < 6.2 | < 0.31 | < 3.1 | < 16 | < 0.62 | < 1.6 | < 3100 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | UG/L | 5 | NA | 0.2 | NA | NA | | < 0.35 | < 0.35 | < 180 | < 3500 | < 0.35 | < 0.35 | < 350 | < 1800 | < 7 | **1.5** | < 3.5 | < 18 | < 0.7 | < 1.8 | < 3500 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | UG/L | NA | NA | 1200 | NA | NA | | < 0.37 | < 0.37 | < 190 | < 3700 | < 0.37 | < 0.37 | < 370 | < 1900 | < 7.5 | < 0.37 | < 3.7 | < 19 | < 0.75 | < 1.9 | < 3700 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | UG/L | 7 | NA | 340 | D029 | 700 | | < 0.43 | < 0.43 | < 210 | < 4300 | < 0.43 | < 0.43 | < 430 | < 2100 | < 8.5 | < 0.43 | < 4.3 | < 21 | < 0.85 | < 2.1 | < 4300 |

# Table 2
## Spring 2008 DPT Groundwater Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | OFFMW-3 4/22/2008 | OFFMW-4 4/22/2008 | TW-1 3/31/2008 | TW-1 4/22/2008 | TW-2 3/31/2008 | TW-2 4/22/2008 | TW-3 4/22/2008 | TW-4 4/22/2008 | TW-5 4/22/2008 | TW-6 3/31/2008 | TW-7 4/22/2008 | TW-8 4/22/2008 | TW-9 3/31/2008 | TW-9 4/22/2008 | TW-10 4/22/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | UG/L | 0.05 | NA | 0.0056 | NA | NA | | < 0.3 | < 0.3 | < 150 | < 3000 | < 0.3 | < 0.3 | < 300 | < 1500 | < 6 | < 0.3 | < 3 | < 15 | < 0.6 | < 1.5 | < 3000 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | NA | 49 | NA | NA | | < 0.43 | < 0.43 | **580** | **10000** | 1.9 | 2.5 | < 430 | **4300 J** | **450** | **350** | **130** | **280** | **170** | **350** | < 4300 |
| 8260B | 1,2-Dichloroethane | 107-06-2 | UG/L | 5 | NA | 0.12 | D028 | 500 | | **33** | **100** | < 200 | **4100 J** | **4.9** | **3.1** | **37000** | **6700** | **380** | **2100** | **7 J** | < 20 | **13** | **5.7** | **730000** |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | UG/L | NA | NA | NA | NA | NA | | < 0.73 | < 0.73 | < 370 | < 7300 | < 0.73 | < 0.73 | < 730 | < 3700 | < 15 | < 0.73 | < 7.3 | < 37 | < 1.5 | < 3.7 | < 7300 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | UG/L | 5 | NA | 0.17 | NA | NA | | < 0.37 | < 0.37 | < 190 | < 3700 | < 0.37 | < 0.37 | < 370 | < 1900 | < 7.5 | **20** | < 3.7 | < 19 | < 0.75 | < 1.9 | < 3700 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | UG/L | NA | NA | 15 | NA | NA | | < 0.39 | < 0.39 | < 190 | < 3900 | 1.3 | < 0.39 | < 390 | < 1900 | < 7.7 | 3 | < 3.9 | < 19 | 3.1 | < 1.9 | < 3900 |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | NA | 0.47 | D027 | 7500 | | < 0.38 | < 0.38 | < 190 | < 3800 | **3.4** | **1.8** | < 380 | < 1900 | < 7.5 | **10** | **5.1 J** | < 19 | **5.4** | **11** | < 3800 |
| 8260B | 2-Butanone (MEK) | 78-93-3 | UG/L | NA | NA | 7100 | D035 | 200000 | | < 0.84 | < 0.84 | < 420 | < 8400 | < 0.84 | < 0.84 | < 840 | < 4200 | 5200 | 6800 | < 170 | 1600 | 19 | 5.7 J | < 8400 |
| 8260B | 2-Hexanone | 591-78-6 | UG/L | NA | NA | NA | NA | NA | | < 0.27 | < 0.27 | < 130 | < 2700 | < 0.27 | < 0.27 | < 270 | < 1300 | 10 J | 16 | < 2.7 | < 13 | < 0.53 | < 1.3 | < 2700 |
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | UG/L | NA | NA | NA | NA | NA | | < 0.62 | < 0.62 | < 310 | < 6200 | < 0.62 | < 0.62 | < 620 | < 3100 | < 12 | < 0.62 | < 6.2 | < 31 | < 1.2 | < 3.1 | < 6200 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | UG/L | NA | NA | 2000 | NA | NA | | < 0.42 | < 0.42 | 1000 J | < 4200 | < 0.42 | < 0.42 | < 420 | **10000 J** | 1000 | 10 | 160 | < 21 | 4.7 J | < 2.1 | < 4200 |
| 8260B | Acetone | 67-64-1 | UG/L | NA | NA | 5500 | NA | NA | | < 0.82 | < 0.82 | **9700** | **12000 J** | 5.7 | 1.6 J | 1600 J | **33000** | **18000** | < 0.82 | **7500** | 140 J | 21 | 12 J | **8400 J** |
| 8260B | Benzene | 71-43-2 | UG/L | 5 | NA | 0.35 | D018 | 500 | | < 0.39 | **1.2** | < 200 | < 3900 | < 0.39 | < 0.39 | < 390 | < 2000 | < 7.8 | **0.83 J** | < 3.9 | < 20 | **2.1** | **2.1 J** | < 3900 |
| 8260B | Bromobenzene | 108-86-1 | UG/L | NA | NA | 23 | NA | NA | | < 0.39 | < 0.39 | < 200 | < 3900 | < 0.39 | < 0.39 | < 390 | < 2000 | < 7.9 | < 0.39 | < 3.9 | < 20 | < 0.79 | < 2 | < 3900 |
| 8260B | Bromochloromethane | 74-97-5 | UG/L | NA | NA | NA | NA | NA | | < 0.37 | < 0.37 | < 180 | < 3700 | < 0.37 | < 0.37 | < 370 | < 1800 | < 7.4 | < 0.37 | < 3.7 | < 18 | < 0.74 | < 1.8 | < 3700 |
| 8260B | Bromodichloromethane | 75-27-4 | UG/L | NA | NA | 0.18 | NA | NA | | < 0.37 | < 0.37 | < 180 | < 3700 | < 0.37 | < 0.37 | < 370 | < 1800 | < 7.4 | < 0.37 | < 3.7 | < 18 | < 0.74 | < 1.8 | < 3700 |
| 8260B | Bromoform | 75-25-2 | UG/L | NA | NA | 8.5 | NA | NA | | < 0.27 | < 0.27 | < 130 | < 2700 | < 0.27 | < 0.27 | < 270 | < 1300 | < 5.4 | < 0.27 | < 2.7 | < 13 | < 0.54 | < 1.3 | < 2700 |
| 8260B | Bromomethane | 74-83-9 | UG/L | NA | NA | 8.7 | NA | NA | | < 0.72 | < 0.72 | < 360 | < 7200 | < 0.72 | < 0.72 | < 720 | < 3600 | < 14 | < 0.72 | < 7.2 | < 36 | < 1.4 | < 3.6 | < 7200 |
| 8260B | Carbon disulfide | 75-15-0 | UG/L | NA | NA | 1000 | NA | NA | | < 0.38 | < 0.38 | < 190 | < 3800 | < 0.38 | 0.74 J | < 380 | < 1900 | < 7.7 | < 0.38 | < 3.8 | < 19 | < 0.77 | 1.9 J | < 3800 |
| 8260B | Carbon tetrachloride | 56-23-5 | UG/L | 5 | NA | 0.17 | D019 | 500 | | < 0.41 | < 0.41 | < 200 | < 4100 | < 0.41 | < 0.41 | < 410 | < 2000 | < 8.1 | 1.6 | < 4.1 | < 20 | < 0.81 | < 2 | < 4100 |
| 8260B | Chlorobenzene | 108-90-7 | UG/L | 100 | NA | 91 | D021 | 100000 | | < 0.33 | **1.9** | < 170 | < 3300 | 1.1 | 1.1 | < 330 | < 1700 | < 6.7 | 2.9 | 15 | < 17 | **140** | **180** | < 3300 |
| 8260B | Chloroethane | 75-00-3 | UG/L | NA | NA | 3.9 | NA | NA | | < 0.45 | < 0.45 | < 220 | < 4500 | < 0.45 | < 0.45 | < 450 | < 2200 | < 9 | < 0.45 | < 4.5 | < 22 | **< 0.9** | **< 2.2** | < 4500 |
| 8260B | Chloroform | 67-66-3 | UG/L | NA | NA | 0.17 | D022 | 6000 | | < 0.35 | < 0.35 | **180 J** | < 3500 | < 0.35 | < 0.35 | < 350 | **13000** | < 7 | 66 | < 3.5 | < 17 | < 0.7 | < 1.7 | < 3500 |
| 8260B | Chloromethane | 74-87-3 | UG/L | NA | NA | 2.1 | NA | NA | | < 0.48 | < 0.48 | < 240 | < 4800 | < 0.48 | < 0.48 | < 480 | < 2400 | < 9.6 | 0.52 J | < 4.8 | < 24 | < 0.96 | < 2.4 | < 4800 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | UG/L | 70 | NA | 61 | NA | NA | | < 0.37 | < 0.37 | < 180 | < 3700 | < 0.37 | < 0.37 | < 370 | < 1800 | < 7.3 | < 0.37 | < 3.7 | < 18 | < 0.73 | < 1.8 | < 3700 |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | UG/L | NA | NA | 0.4 | NA | NA | | < 0.31 | < 0.31 | < 150 | < 3100 | < 0.31 | < 0.31 | < 310 | < 1500 | < 6.1 | < 0.31 | < 3.1 | < 15 | < 0.61 | < 1.5 | < 3100 |
| 8260B | Dibromochloromethane | 124-48-1 | UG/L | NA | NA | 0.13 | NA | NA | | < 0.28 | < 0.28 | < 140 | < 2800 | < 0.28 | < 0.28 | < 280 | < 1400 | < 5.6 | < 0.28 | < 2.8 | < 14 | < 0.56 | < 1.4 | < 2800 |
| 8260B | Dibromomethane | 74-95-3 | UG/L | NA | NA | 61 | NA | NA | | < 0.41 | < 0.41 | < 200 | < 4100 | < 0.41 | < 0.41 | < 410 | < 2000 | < 8.1 | < 0.41 | < 4.1 | < 20 | < 0.81 | < 2 | < 4100 |
| 8260B | Ethylbenzene | 100-41-4 | UG/L | 700 | NA | 1300 | NA | NA | | < 0.42 | < 0.42 | < 210 | < 4200 | < 0.42 | < 0.42 | < 420 | **51000** | 89 | 80 | < 4.2 | < 21 | 3.4 | 4.2 J | < 4200 |
| 8260B | Methylene chloride | 75-09-2 | UG/L | 5 | NA | 4.3 | NA | NA | | < 0.42 | < 0.42 | **680** | < 4200 | < 0.42 | < 0.42 | **6200** | **3500 J** | **53** | **6300** | < 4.2 | **58** | < 0.84 | < 2.1 | **26000** |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | UG/L | NA | NA | NA | NA | NA | | < 0.83 | < 0.83 | < 410 | < 8300 | < 0.83 | < 0.83 | < 830 | 220000 | 410 | 320 | < 8.3 | **< 41** | 3 J | < 4.1 | < 8300 |
| 8260B | o-Xylene | 95-47-6 | UG/L | NA | NA | 1400 | NA | NA | | < 0.39 | < 0.39 | 450 J | < 3900 | < 0.39 | < 0.39 | < 390 | **72000** | 190 | 170 | < 3.9 | < 19 | 1.8 J | < 1.9 | < 3900 |
| 8260B | Styrene | 100-42-5 | UG/L | 100 | NA | 1600 | NA | NA | | < 0.31 | < 0.31 | < 160 | < 3100 | < 0.31 | < 0.31 | < 310 | **2200 J** | < 6.2 | < 0.31 | < 3.1 | < 16 | < 0.62 | < 1.6 | < 3100 |
| 8260B | Tetrachloroethene | 127-18-4 | UG/L | 5 | NA | 0.11 | D039 | 700 | | < 0.4 | < 0.4 | < 200 | < 4000 | < 0.4 | < 0.4 | < 400 | < 2000 | < 8 | < 0.4 | < 4 | < 20 | < 0.8 | < 2 | < 4000 |
| 8260B | Toluene | 108-88-3 | UG/L | 1000 | NA | 2300 | NA | NA | | < 0.39 | < 0.39 | **75000 J** | **210000** | 11 | 1.1 | 1700 | **190000** | < 78 | 780 | < 78 | 2100 | 26 | 3.7 J | **5400 J** |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | UG/L | 100 | NA | 110 | NA | NA | | < 0.37 | < 0.37 | < 190 | < 3700 | < 0.37 | < 0.37 | < 370 | < 1900 | < 7.4 | < 0.37 | < 3.7 | < 19 | < 0.74 | < 1.9 | < 3700 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | UG/L | NA | NA | 0.4 | NA | NA | | < 0.21 | < 0.21 | < 100 | < 2100 | < 0.21 | < 0.21 | < 210 | < 1000 | < 4.2 | < 0.21 | < 2.1 | < 10 | < 0.42 | < 1 | < 2100 |
| 8260B | Trichloroethene | 79-01-6 | UG/L | 5 | NA | 0.028 | D040 | 500 | | < 0.45 | < 0.45 | < 220 | < 4500 | < 0.45 | < 0.45 | < 450 | < 2200 | < 9 | < 0.45 | < 4.5 | < 22 | < 0.9 | < 2.2 | < 4500 |
| 8260B | Trichlorofluoromethane | 75-69-4 | UG/L | NA | NA | 1300 | NA | NA | | < 0.47 | < 0.47 | < 240 | < 4700 | < 0.47 | < 0.47 | < 470 | < 2400 | < 9.5 | < 0.47 | < 4.7 | < 24 | < 0.95 | < 2.4 | < 4700 |
| 8260B | Vinyl acetate | 108-05-4 | UG/L | NA | NA | 410 | NA | NA | | < 0.29 | < 0.29 | < 150 | < 2900 | < 0.29 | < 0.29 | < 290 | < 1500 | < 5.9 | < 0.29 | < 2.9 | < 15 | < 0.59 | < 1.5 | < 2900 |
| 8260B | Vinyl chloride | 75-01-4 | UG/L | 2 | NA | 0.015 | D043 | 200 | | < 0.4 | < 0.4 | < 200 | < 4000 | < 0.4 | < 0.4 | < 400 | < 2000 | < 8 | **1.1 J** | < 4 | < 20 | < 0.8 | < 2 | < 4000 |
| 8260B | Xylenes (total) | 1330-20-7 | UG/L | 10000 | NA | 200 | NA | NA | | < 1.2 | < 1.2 | **790 J** | < 12000 | < 1.2 | < 1.2 | < 1200 | < 6000 | < 24 | < 1.2 | < 12 | < 60 | 4.8 J | < 6 | < 12000 |
| **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | UG/L | 70 | NA | 8.2 | NA | NA | | < 0.84 | < 0.81 | < 8.2 | -- | < 4.2 | -- | -- | -- | -- | < 4.2 | -- | -- | < 0.83 | -- | -- |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | NA | 49 | NA | NA | | < 0.97 | < 0.94 | **1000** | -- | < 4.8 | -- | -- | -- | -- | **290** | -- | -- | **180** | -- | -- |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | UG/L | NA | NA | 15 | NA | NA | | < 0.99 | < 0.96 | < 9.7 | -- | < 4.9 | -- | -- | -- | -- | < 4.9 | -- | -- | < 0.98 | -- | -- |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | NA | 0.47 | D027 | 7500 | | < 0.81 | < 0.78 | **11 J** | -- | < 4 | -- | -- | -- | -- | **5.8 J** | -- | -- | **5.7 J** | -- | -- |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | UG/L | NA | NA | 3700 | D041 | 400000 | | < 1 | < 0.97 | < 9.8 | -- | < 5 | -- | -- | -- | -- | < 5 | -- | -- | < 0.99 | -- | -- |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | UG/L | NA | NA | 6.1 | D042 | 2000 | | < 1.1 | < 1.1 | < 11 | -- | < 5.4 | -- | -- | -- | -- | < 5.4 | -- | -- | < 1.1 | -- | -- |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | UG/L | NA | NA | 110 | NA | NA | | < 1 | < 1 | 11 J | -- | < 5.1 | -- | -- | -- | -- | 27 J | -- | -- | 4.7 J | -- | -- |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | UG/L | NA | NA | 730 | NA | NA | | < 1.9 | < 1.8 | < 19 | -- | < 9.4 | -- | -- | -- | -- | < 9.4 | -- | -- | 3.6 J | -- | -- |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | UG/L | NA | NA | 73 | NA | NA | | < 3.7 | < 3.6 | < 37 | -- | < 19 | -- | -- | -- | -- | **12000** | -- | -- | < 3.7 | -- | -- |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | UG/L | NA | NA | 73 | D030 | 130 | | < 2.9 | < 2.8 | < 28 | -- | < 14 | -- | -- | -- | -- | < 14 | -- | -- | < 2.9 | -- | -- |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | UG/L | NA | NA | 37 | NA | NA | | < 1 | < 1 | < 10 | -- | < 5.1 | -- | -- | -- | -- | < 5.1 | -- | -- | < 1 | -- | -- |
| 8270C | 2-Chloronaphthalene | 91-58-7 | UG/L | NA | NA | 490 | NA | NA | | < 1.5 | < 1.4 | < 14 | -- | < 7.2 | -- | -- | -- | -- | < 7.2 | -- | -- | < 1.4 | -- | -- |
| 8270C | 2-Chlorophenol | 95-57-8 | UG/L | NA | NA | 30 | NA | NA | | < 1.5 | < 1.4 | < 15 | -- | < 7.4 | -- | -- | -- | -- | < 7.4 | -- | -- | 5.8 J | -- | -- |
| 8270C | 2-Methylnaphthalene | 91-57-6 | UG/L | NA | NA | NA | NA | NA | | < 0.97 | < 0.94 | < 9.5 | -- | < 4.8 | -- | -- | -- | -- | < 4.8 | -- | -- | < 0.96 | -- | -- |
| 8270C | 2-Methylphenol | 95-48-7 | UG/L | NA | NA | 1800 | D023 | 200000 | | < 1.8 | < 1.8 | 730 | -- | < 9 | -- | -- | -- | -- | < 9 | -- | -- | < 1.8 | -- | -- |
| 8270C | 2-Nitroaniline | 88-74-4 | UG/L | NA | NA | 110 | NA | NA | | < 1.2 | < 1.2 | < 12 | -- | < 5.9 | -- | -- | -- | -- | < 5.9 | -- | -- | < 1.2 | -- | -- |
| 8270C | 2-Nitrophenol | 88-75-5 | UG/L | NA | NA | NA | NA | NA | | < 1.1 | < 1 | < 10 | -- | < 5.2 | -- | -- | -- | -- | < 5.2 | -- | -- | < 1 | -- | -- |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | UG/L | NA | NA | 0.15 | NA | NA | | < 1.7 | < 1.7 | < 17 | -- | < 8.5 | -- | -- | -- | -- | < 8.5 | -- | -- | < 1.7 | -- | -- |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | UG/L | NA | NA | NA | NA | NA | | < 1 | < 1 | 62000 | -- | 16 J | -- | -- | -- | -- | 380 | -- | -- | 1800 | -- | -- |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | UG/L | NA | NA | 180 | NA | NA | | < 2.6 | < 2.5 | **650** | -- | < 13 | -- | -- | -- | -- | < 13 | -- | -- | < 2.6 | -- | -- |
| 8270C | 3-Nitroaniline | 99-09-2 | UG/L | NA | NA | NA | NA | NA | | < 1.2 | < 1.2 | < 12 | -- | < 6 | -- | -- | -- | -- | < 6 | -- | -- | < 1.2 | -- | -- |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | UG/L | NA | NA | NA | NA | NA | | < 3.6 | < 3.5 | < 35 | -- | < 18 | -- | -- | -- | -- | < 18 | -- | -- | < 3.5 | -- | -- |

# Table 2
## Spring 2008 DPT Groundwater Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | OFFMW-3 4/22/2008 | OFFMW-4 4/22/2008 | TW-1 3/31/2008 | TW-1 4/22/2008 | TW-2 3/31/2008 | TW-2 4/22/2008 | TW-3 4/22/2008 | TW-4 4/22/2008 | TW-5 4/22/2008 | TW-6 3/31/2008 | TW-7 4/22/2008 | TW-8 4/22/2008 | TW-9 3/31/2008 | TW-9 4/22/2008 | TW-10 4/22/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | UG/L | NA | NA | NA | NA | NA | | < 0.93 | < 0.91 | < 9.1 | -- | < 4.6 | -- | -- | -- | -- | < 4.6 | -- | -- | < 0.92 | -- | -- |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | UG/L | NA | NA | NA | NA | NA | | < 1.1 | < 1 | < 11 | -- | < 5.3 | -- | -- | -- | -- | < 5.3 | -- | -- | < 1.1 | -- | -- |
| 8270C | 4-Chloroaniline | 106-47-8 | UG/L | NA | NA | 150 | NA | NA | | 10 UJ | 9.7 UJ | **13000** | -- | < 8.2 | -- | -- | -- | -- | < 8.2 | -- | -- | **940** | -- | -- |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | UG/L | NA | NA | NA | NA | NA | | < 1.4 | < 1.4 | < 14 | -- | < 7.1 | -- | -- | -- | -- | < 7.1 | -- | -- | < 1.4 | -- | -- |
| 8270C | 4-Nitroaniline | 100-01-6 | UG/L | NA | NA | NA | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.4 | -- | -- | -- | -- | < 5.4 | -- | -- | < 1.1 | -- | -- |
| 8270C | 4-Nitrophenol | 100-02-7 | UG/L | NA | NA | 290 | NA | NA | | < 4.1 | < 4 | < 40 | -- | < 20 | -- | -- | -- | -- | 200 J | -- | -- | < 4.1 | -- | -- |
| 8270C | Acenaphthene | 83-32-9 | UG/L | NA | NA | 370 | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.4 | -- | -- | -- | -- | < 5.4 | -- | -- | < 1.1 | -- | -- |
| 8270C | Acenaphthylene | 208-96-8 | UG/L | NA | NA | NA | NA | NA | | < 0.9 | < 0.88 | < 8.9 | -- | < 4.5 | -- | -- | -- | -- | < 4.5 | -- | -- | < 0.9 | -- | -- |
| 8270C | Aniline | 62-53-3 | UG/L | NA | NA | 12 | NA | NA | | 10 UJ | 9.7 UJ | **160** | -- | < 10 | -- | -- | -- | -- | < 10 | -- | -- | 4.7 J | -- | -- |
| 8270C | Anthracene | 120-12-7 | UG/L | NA | NA | 1800 | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.6 | -- | -- | -- | -- | < 5.6 | -- | -- | < 1.1 | -- | -- |
| 8270C | Benzo(a)anthracene | 56-55-3 | UG/L | NA | NA | 0.03 | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.5 | -- | -- | -- | -- | < 5.5 | -- | -- | < 1.1 | -- | -- |
| 8270C | Benzo(a)pyrene | 50-32-8 | UG/L | 0.2 | NA | 0.003 | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.5 | -- | -- | -- | -- | < 5.5 | -- | -- | < 1.1 | -- | -- |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | UG/L | NA | NA | 0.03 | NA | NA | | < 0.79 | < 0.76 | < 7.7 | -- | < 3.9 | -- | -- | -- | -- | < 3.9 | -- | -- | < 0.78 | -- | -- |
| 8270C | Benzo(ghi)perylene | 191-24-2 | UG/L | NA | NA | NA | NA | NA | | < 0.76 | < 0.74 | < 7.5 | -- | < 3.8 | -- | -- | -- | -- | < 3.8 | -- | -- | < 0.75 | -- | -- |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | UG/L | NA | NA | 0.3 | NA | NA | | < 1.2 | < 1.2 | < 12 | -- | < 6.1 | -- | -- | -- | -- | < 6.1 | -- | -- | < 1.2 | -- | -- |
| 8270C | Benzoic acid | 65-85-0 | UG/L | NA | NA | 150000 | NA | NA | | < 13 | < 13 | 1100 | -- | 280 | -- | -- | -- | -- | 290 | -- | -- | < 13 | -- | -- |
| 8270C | Benzyl alcohol | 100-51-6 | UG/L | NA | NA | 11000 | NA | NA | | < 1.6 | < 1.6 | < 16 | -- | < 8.1 | -- | -- | -- | -- | < 8.1 | -- | -- | < 1.6 | -- | -- |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | UG/L | NA | NA | NA | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.6 | -- | -- | -- | -- | < 5.6 | -- | -- | < 1.1 | -- | -- |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | UG/L | NA | NA | 0.0098 | NA | NA | | < 1.2 | **15** | < 12 | -- | < 5.9 | -- | -- | -- | -- | < 5.9 | -- | -- | < 1.2 | -- | -- |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | UG/L | NA | NA | 0.27 | NA | NA | | < 1.2 | < 1.2 | < 12 | -- | < 6 | -- | -- | -- | -- | < 6 | -- | -- | < 1.2 | -- | -- |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | UG/L | 6 | NA | 4.8 | NA | NA | | < 2.7 | < 2.7 | < 27 | -- | < 14 | -- | -- | -- | -- | < 14 | -- | -- | < 2.7 | -- | -- |
| 8270C | Butyl benzyl phthalate | 85-68-7 | UG/L | NA | NA | 7300 | NA | NA | | < 0.99 | < 0.96 | < 9.7 | -- | < 4.9 | -- | -- | -- | -- | < 4.9 | -- | -- | < 0.98 | -- | -- |
| 8270C | Chrysene | 218-01-9 | UG/L | NA | NA | 3 | NA | NA | | < 1.1 | < 1 | < 11 | -- | < 5.3 | -- | -- | -- | -- | < 5.3 | -- | -- | < 1.1 | -- | -- |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | UG/L | NA | NA | 0.003 | NA | NA | | < 1 | < 0.98 | < 9.9 | -- | < 5 | -- | -- | -- | -- | < 5 | -- | -- | < 1 | -- | -- |
| 8270C | Dibenzofuran | 132-64-9 | UG/L | NA | NA | 12 | NA | NA | | < 1.1 | < 1 | < 10 | -- | < 5.2 | -- | -- | -- | -- | < 5.2 | -- | -- | < 1 | -- | -- |
| 8270C | Diethyl phthalate | 84-66-2 | UG/L | NA | NA | 29000 | NA | NA | | < 1.5 | < 1.4 | < 14 | -- | < 7.3 | -- | -- | -- | -- | < 7.3 | -- | -- | < 1.5 | -- | -- |
| 8270C | Dimethyl phthalate | 131-11-3 | UG/L | NA | NA | 370000 | NA | NA | | < 1.3 | < 1.2 | < 12 | -- | < 6.3 | -- | -- | -- | -- | < 6.3 | -- | -- | < 1.3 | -- | -- |
| 8270C | Di-n-butyl phthalate | 84-74-2 | UG/L | NA | NA | 3700 | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.6 | -- | -- | -- | -- | < 5.6 | -- | -- | < 1.1 | -- | -- |
| 8270C | Di-n-octyl phthalate | 117-84-0 | UG/L | NA | NA | NA | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.5 | -- | -- | -- | -- | < 5.5 | -- | -- | < 1.1 | -- | -- |
| 8270C | Dinoseb | 88-85-7 | UG/L | 7 | NA | 37 | NA | NA | | < 0.54 | < 0.53 | **5400** | -- | **38 J** | -- | -- | -- | -- | **22000** | -- | -- | **38** | -- | -- |
| 8270C | Fluoranthene | 206-44-0 | UG/L | NA | NA | 1500 | NA | NA | | < 0.92 | < 0.89 | < 9 | -- | < 4.6 | -- | -- | -- | -- | < 4.6 | -- | -- | < 0.91 | -- | -- |
| 8270C | Fluorene | 86-73-7 | UG/L | NA | NA | 240 | NA | NA | | < 1 | < 0.98 | < 9.9 | -- | < 5 | -- | -- | -- | -- | < 5 | -- | -- | < 1 | -- | -- |
| 8270C | Hexachlorobenzene | 118-74-1 | UG/L | 1 | NA | 0.042 | D032 | 130 | | < 1.5 | < 1.4 | < 14 | -- | < 7.3 | -- | -- | -- | -- | < 7.3 | -- | -- | < 1.5 | -- | -- |
| 8270C | Hexachlorobutadiene | 87-68-3 | UG/L | NA | NA | 0.86 | D033 | 500 | | < 1.3 | < 1.2 | < 12 | -- | < 6.3 | -- | -- | -- | -- | < 6.3 | -- | -- | < 1.3 | -- | -- |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | UG/L | 50 | NA | 220 | NA | NA | | < 3.4 | < 3.3 | < 33 | -- | < 17 | -- | -- | -- | -- | < 17 | -- | -- | < 3.4 | -- | -- |
| 8270C | Hexachloroethane | 67-72-1 | UG/L | NA | NA | 4.8 | D034 | 3000 | | < 0.94 | < 0.91 | < 9.2 | -- | < 4.7 | -- | -- | -- | -- | < 4.7 | -- | -- | < 0.93 | -- | -- |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | UG/L | NA | NA | 0.03 | NA | NA | | < 1.1 | < 1.1 | < 11 | -- | < 5.7 | -- | -- | -- | -- | < 5.7 | -- | -- | < 1.1 | -- | -- |
| 8270C | Isophorone | 78-59-1 | UG/L | NA | NA | 71 | NA | NA | | < 1.1 | < 1.1 | **9100** | -- | < 5.4 | -- | -- | -- | -- | < 5.4 | -- | -- | < 1.1 | -- | -- |
| 8270C | Naphthalene | 91-20-3 | UG/L | NA | NA | 6.2 | NA | NA | | < 0.88 | < 0.85 | < 8.6 | -- | < 4.3 | -- | -- | -- | -- | < 4.3 | -- | -- | < 0.87 | -- | -- |
| 8270C | Nitrobenzene | 98-95-3 | UG/L | NA | NA | 3.4 | D036 | 2000 | | < 1.1 | < 1.1 | < 11 | -- | < 5.5 | -- | -- | -- | -- | < 5.5 | -- | -- | < 1.1 | -- | -- |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | UG/L | NA | NA | 0.0096 | NA | NA | | < 1 | < 1 | < 10 | -- | < 5.1 | -- | -- | -- | -- | < 5.1 | -- | -- | < 1 | -- | -- |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | UG/L | NA | NA | 14 | NA | NA | | < 0.94 | < 0.91 | < 9.2 | -- | < 4.6 | -- | -- | -- | -- | < 4.6 | -- | -- | < 0.93 | -- | -- |
| 8270C | Pentachlorophenol | 87-86-5 | UG/L | 1 | NA | 0.56 | D037 | 100000 | | < 5.4 | < 5.3 | < 53 | -- | < 27 | -- | -- | -- | -- | < 27 | -- | -- | < 5.4 | -- | -- |
| 8270C | Phenanthrene | 85-01-8 | UG/L | NA | NA | NA | NA | NA | | < 1 | < 0.97 | < 9.8 | -- | < 4.9 | -- | -- | -- | -- | < 4.9 | -- | -- | < 0.99 | -- | -- |
| 8270C | Phenol | 108-95-2 | UG/L | NA | NA | 11000 | NA | NA | | < 2.1 | < 2.1 | 220 | -- | < 11 | -- | -- | -- | -- | < 11 | -- | -- | < 2.1 | -- | -- |
| 8270C | Propanil | 709-98-8 | UG/L | NA | NA | 180 | NA | NA | | < 0.79 | < 0.76 | **18000** | -- | < 3.9 | -- | -- | -- | -- | **9300** | -- | -- | 14 | -- | -- |
| 8270C | Pyrene | 129-00-0 | UG/L | NA | NA | 180 | NA | NA | | < 0.92 | < 0.89 | < 9 | -- | < 4.5 | -- | -- | -- | -- | < 4.5 | -- | -- | < 0.91 | -- | -- |
| | **Dissolved Gases** | | | | | | | | | | | | | | | | | | | | | | | |
| SOP-175 | Ethane | 74-84-0 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 6.2 | -- | < 0.062 | -- | -- | -- | -- | 3.4 | -- | -- | < 0.062 | -- | -- |
| SOP-175 | Ethene | 74-85-1 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 0.79 | -- | < 0.057 | -- | -- | -- | -- | 12 | -- | -- | < 0.057 | -- | -- |
| SOP-175 | Methane | 74-82-8 | UG/L | NA | NA | NA | NA | NA | | -- | -- | 140 | -- | 440 | -- | -- | -- | -- | 92 | -- | -- | 1200 | -- | -- |
| SOP-175 | Carbon dioxide | 124-38-9 | UG/L | NA | NA | NA | NA | NA | | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3400 | -- | -- | -- | -- | -- |
| SOP-175 | Nitrogen | 7727-37-9 | UG/L | NA | NA | NA | NA | NA | | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2000 | -- | -- | -- | -- | -- |
| SOP-175 | Oxygen | 7782-44-7 | UG/L | NA | NA | NA | NA | NA | | -- | -- | -- | -- | -- | -- | -- | -- | -- | 740 | -- | -- | -- | -- | -- |
| SOP-175 | Carbon monoxide | 630-08-0 | UG/L | NA | NA | NA | NA | NA | | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 13 | -- | -- | -- | -- | -- |

Notes:

| | |
|---|---|
| | Exceeds the primary Drinking Water Standard |
| | Exceed the Secondary Drinking Water Standard |
| **Bold** | Exceeds the Region 6 Tap Water MSSL |
| -- | No data available for reported analyte |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| UJ | Data point considered non-detect and the reported value is an approximate. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration |
| NA | No MSSL is published for the analyte |

# TABLE 3

Spring 2008 DPT Soil Sampling Results

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | BK-1 (0-6) 4/1/2008 | BK-1 (10-16) 4/1/2008 | BK-10(0-5) 4/1/2008 | BK-10(10-15) 4/1/2008 | BK-2 (0-6) 4/1/2008 | BK-2 (10-16) 4/1/2008 | BK-3 (0-6) 4/1/2008 | BK-3 (10-16) 4/1/2008 | BK-4 (0-5) 4/1/2008 | BK-4 (10-15) 4/1/2008 | BK-5 (0-5) 4/2/2008 | BK-5 (10-15) 4/2/2008 | BK-6 (0-5) 4/2/2008 | BK-6 (10-15) 4/2/2008 | BK-7 (0-5) 4/2/2008 | BK-7 (10-15) 4/2/2008 | BK-8 (0-5) 4/1/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | MG/KG | 76000 | 100000 | NA | 12500 | 11900 | 12600 | 13000 | 17300 | 12100 | 14200 | 12700 | 9470 | 9630 | 9580 | 12600 | 7370 | 15100 | 13800 | 9450 | 13500 |
| 6020 | Antimony | 7440-36-0 | MG/KG | 31 | 450 | 0.3 | 0.074 JL | 0.067 JL | < 0.041 JL | < 0.047 JL | < 0.047 JL | < 0.044 JL | 0.084 JL | < 0.043 JL | < 0.045 JL | < 0.048 JL | < 0.043 JL | < 0.042 JL | < 0.042 JL | < 0.047 JL | < 0.044 JL | < 0.047 JL | < 0.047 JL |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 0.39 | 1.8 | 1 | **19.8 JL** | **9.8 JL** | **9.6 JL** | **11.3 JL** | **7.3 JL** | **9.6 JL** | **5.8 JL** | **9.6 JL** | **7.5 JL** | **9.1 JL** | **4.8 JL** | **8.5 JL** | **1.8 JL** | **7.6 JL** | **3.6 JL** | **5.4 JL** | **4.9 JL** |
| 6020 | Barium | 7440-39-3 | MG/KG | 16000 | 100000 | 82 | 169 | 195 | 182 | 224 | 200 | 186 | 181 | 185 | 130 | 176 | 179 | 186 | 70.5 | 203 | 154 | 169 | 135 |
| 6020 | Beryllium | 7440-41-7 | MG/KG | 150 | 2200 | 3 | 0.54 | 0.58 | 0.72 | 0.72 | 0.65 | 0.64 | 0.55 | 0.66 | 0.44 | 0.54 | 0.5 | 0.64 | 0.3 | 0.68 | 0.52 | 0.45 | 0.5 |
| 6020 | Cadmium | 7440-43-9 | MG/KG | 39 | 560 | 0.4 | 0.22 | 0.36 | 0.26 | 0.4 | 0.12 | 0.37 | 0.17 | 0.42 | 0.17 | 0.44 | 0.16 | 0.17 | < 0.046 | 0.22 | 0.089 | 0.31 | 0.12 |
| 6020 | Calcium | 7440-70-2 | MG/KG | NA | NA | NA | 1930 | 2660 | 2760 | 2510 | 1640 | 2780 | 1210 | 2830 | 1960 | 32600 | 1570 | 2720 | 932 | 2430 | 1380 | 2480 | 1840 |
| 6020 | Chromium | 7440-47-3 | MG/KG | 210 | 500 | 2 | 14.3 JH | 15.4 JH | 15.7 JH | 19.2 JH | 17.1 JH | 15.7 JH | 15.6 JH | 16.9 JH | 12.1 JH | 22.7 JH | 12.6 JH | 20.5 JH | 9.1 JH | 21 JH | 14.8 JH | 14 JH | 13.8 JH |
| 6020 | Cobalt | 7440-48-4 | MG/KG | 900 | 2100 | NA | 6.9 | 8.6 | 7.3 | 11 | 8.8 | 9 | 9.9 | 9.5 | 5.7 | 9.4 | 5.4 | 6.6 | 3.3 | 7.8 | 3.7 | 7.9 | 8 |
| 6020 | Copper | 7440-50-8 | MG/KG | 2900 | 42000 | NA | 13.8 | 16.7 | 10.4 | 16.3 | 14.5 | 15.9 | 11.4 | 17.5 | 12.3 | 14.8 | 9.8 | 12.7 | 5.1 | 19.5 | 9.9 | 13.5 | 13.8 |
| 6020 | Iron | 7439-89-6 | MG/KG | 55000 | 100000 | NA | 16700 | 22400 | 19500 | 25600 | 19600 | 23300 | 16300 | 24800 | 12200 | 21400 | 13200 | 22000 | 7760 | 23500 | 13200 | 17200 | 14800 |
| 6020 | Lead | 7439-92-1 | MG/KG | 400 | 800 | NA | 18.8 JH | 12.8 JH | 18.4 JH | 17.4 JH | 14.3 JH | 12.4 JH | 15.1 JH | 13.4 JH | 37.3 JH | 13 JH | 9.9 JH | 13 JH | 4.7 JH | 10.9 JH | 7.8 JH | 9.2 JH | 11.4 JH |
| 6020 | Magnesium | 7439-95-4 | MG/KG | NA | NA | NA | 2070 | 2870 | 2420 | 3440 | 2200 | 3120 | 1800 | 3440 | 1560 | 16000 | 1790 | 3110 | 1120 | 3380 | 1650 | 2410 | 1640 |
| 6020 | Manganese | 7439-96-5 | MG/KG | 3200 | 35000 | NA | 730 | 863 | 634 | 1360 | 851 | 715 | 1060 | 809 | 571 | 851 | 673 | 475 | 197 | 569 | 277 | 729 | 964 |
| 6020 | Nickel | 7440-02-0 | MG/KG | 1600 | 23000 | 7 | 17.4 JH | 21.6 JH | 18.8 JH | 29.2 JH | 18.8 JH | 21.3 JH | 15.9 JH | 24.8 JH | 12.6 JH | 23.9 JH | 14.7 JH | 17.7 JH | 9.7 JH | 24 JH | 14.2 JH | 19.7 JH | 15.7 JH |
| 6020 | Potassium | 9/7/7440 | MG/KG | NA | NA | NA | 1210 JH | 1490 JH | 1110 JH | 1420 JH | 1380 JH | 1630 JH | 1250 JH | 1470 JH | 921 JH | 1070 JH | 884 JH | 1350 JH | 776 JH | 1580 JH | 1120 JH | 1140 JH | 952 JH |
| 6020 | Selenium | 7782-49-2 | MG/KG | 390 | 5700 | 0.3 | 0.2 | < 0.16 | 0.17 | < 0.16 | 0.28 | 0.23 | 0.21 | 0.18 | 0.15 | 0.22 | 0.15 | < 0.14 | < 0.14 | < 0.16 | 0.21 | < 0.16 | 0.27 |
| 6020 | Silver | 7440-22-4 | MG/KG | 390 | 5700 | 2 | 0.026 | < 0.025 | 0.041 | < 0.025 | < 0.025 | < 0.023 | 0.051 | < 0.023 | 0.026 | < 0.025 | 0.064 | < 0.022 | < 0.022 | < 0.025 | 0.029 | < 0.025 | < 0.025 |
| 6020 | Sodium | 7440-23-5 | MG/KG | NA | NA | NA | < 9 | < 9.1 | < 7.8 | 29 J | < 8.9 | 24.3 J | < 8.4 | 44.8 J | < 8.6 | 40.1 J | < 8.1 | 24.9 J | < 7.9 | 14.1 J | < 8.3 | 10.4 J | < 8.9 |
| 6020 | Thallium | 7440-28-0 | MG/KG | 5.5 | 80 | 0.4 | 0.3 | 0.38 | 0.29 | 0.39 | 0.32 | 0.36 | 0.31 | 0.35 | 0.2 | 0.31 | 0.23 | 0.27 | 0.11 | 0.34 | 0.21 | 0.25 | 0.25 |
| 6020 | Vanadium | 7440-62-2 | MG/KG | 390 | 5700 | 300 | 23.1 JH | 22 JH | 20.9 JH | 22.7 JH | 26 JH | 24.1 JH | 20.1 JH | 23.6 JH | 18.7 JH | 20.2 JH | 15.6 JH | 23.7 JH | 12.9 JH | 25.3 JH | 22 JH | 22.9 JH | 22.3 JH |
| 6020 | Zinc | 7440-66-6 | MG/KG | 23000 | 100000 | 620 | 60.8 | 68.5 | 56.2 | 73.4 | 56.1 | 73.1 | 46.6 | 72.1 | 42.6 | 60.7 | 43.7 | 58.5 | 21.1 | 68.2 | 34.9 | 48.2 | 41.6 |
| 7471A | Mercury | 7439-97-6 | MG/KG | NA | NA | 0.1 | 0.027 J | 0.034 J | 0.023 J | 0.046 J | 0.019 J | 0.045 J | 0.021 J | 0.036 J | 0.022 J | 0.021 J | 0.023 J | 0.023 J | 0.0061 J | 0.037 J | 0.014 J | 0.018 J | 0.016 J |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | MG/KG | 2.4 | 11 | 0.8 | < 0.00071 | < 0.00071 | 0.0049 | 0.008 | < 0.00069 | < 0.00071 | < 0.00069 | < 0.00071 | < 0.0033 | < 0.00072 | 0.0063 | < 0.00069 | < 0.00064 | < 0.00073 | 0.0011 J | < 0.028 J | < 0.00069 |
| 8081A | 4,4'-DDE | 72-55-9 | MG/KG | 1.7 | 7.8 | 3 | 0.01 | < 0.00031 | 0.01 | 0.0093 | 0.0026 | < 0.00031 | < 0.0003 | < 0.00031 | 0.048 | < 0.00031 | 0.013 | < 0.0003 | 0.0038 | < 0.00032 | 0.033 | < 0.012 J | 0.0012 J |
| 8081A | 4,4'-DDT | 50-29-3 | MG/KG | 1.7 | 7.8 | 2 | 0.008 | < 0.00076 | 0.0096 | 0.00092 J | 0.002 J | < 0.00077 | < 0.00075 | < 0.00077 | 0.022 | < 0.00078 | 0.0081 | < 0.00075 | 0.0029 | < 0.00079 | 0.014 | < 0.031 J | 0.0012 J |
| 8081A | Aldrin | 309-00-2 | MG/KG | 0.029 | 0.11 | 0.02 | < 0.00033 | < 0.00033 | < 0.00029 | < 0.00034 | < 0.00032 | < 0.00033 | < 0.00032 | < 0.00033 | < 0.0015 | < 0.00033 | < 0.00031 | < 0.00032 | < 0.00029 | < 0.00033 | < 0.00031 | < 0.013 J | < 0.00032 |
| 8081A | alpha-BHC | 319-84-6 | MG/KG | 0.09 | 0.4 | 0.00003 | < 0.00028 | < 0.00028 | < 0.00025 | < 0.00029 | < 0.00027 | < 0.00028 | < 0.00027 | < 0.00028 | < 0.0013 | < 0.00028 | < 0.00027 | < 0.00027 | < 0.00025 | < 0.00028 | < 0.00027 | < 0.011 J | < 0.00027 |
| 8081A | alpha-Chlordane | 5103-71-9 | MG/KG | NA | NA | NA | < 0.00042 | < 0.00042 | < 0.00038 | < 0.00044 | < 0.00041 | < 0.00042 | < 0.00041 | < 0.00042 | < 0.002 | < 0.00043 | < 0.0004 | < 0.00041 | < 0.00038 | < 0.00043 | < 0.0004 | < 0.017 J | < 0.00041 |
| 8081A | beta-BHC | 319-85-7 | MG/KG | 0.32 | 1.4 | 0.0001 | < 0.00037 | < 0.00037 | < 0.00033 | < 0.00039 | < 0.00036 | < 0.00037 | < 0.00036 | < 0.00037 | < 0.0017 | < 0.00038 | < 0.00035 | < 0.00036 | < 0.00033 | < 0.00038 | < 0.00035 | < 0.015 J | < 0.00036 |
| 8081A | Chlordane (technical) | 57-74-9 | MG/KG | 1.6 | 7.2 | 0.5 | < 0.01 | < 0.01 | < 0.0091 | < 0.011 | < 0.0098 | < 0.01 | < 0.0099 | < 0.01 | < 0.047 | < 0.01 | < 0.0097 | < 0.0099 | < 0.0091 | < 0.01 | < 0.0097 | < 0.41 J | < 0.0098 |
| 8081A | delta-BHC | 319-86-8 | MG/KG | NA | NA | NA | < 0.00022 | < 0.00022 | < 0.00019 | < 0.00023 | < 0.00021 | < 0.00022 | < 0.00021 | < 0.00022 | < 0.001 | < 0.00022 | < 0.00021 | < 0.00021 | < 0.00019 | < 0.00022 | < 0.00021 | < 0.0087 J | < 0.00021 |
| 8081A | Dieldrin | 60-57-1 | MG/KG | 0.03 | 0.12 | 0.0002 | 0.00047 J | < 0.00027 | < 0.00024 | < 0.00028 | < 0.00026 | < 0.00027 | < 0.00027 | < 0.00027 | < 0.0013 | < 0.00028 | < 0.00026 | < 0.00027 | < 0.00025 | < 0.00028 | < 0.00026 | < 0.011 J | 0.0044 |
| 8081A | Endosulfan I | 959-98-8 | MG/KG | NA | NA | NA | < 0.00023 | < 0.00023 | < 0.00021 | < 0.00024 | < 0.00022 | < 0.00023 | < 0.00022 | < 0.00023 | < 0.0011 | < 0.00023 | < 0.00022 | < 0.00022 | < 0.00021 | < 0.00023 | < 0.00022 | < 0.0092 J | < 0.00022 |
| 8081A | Endosulfan II | 33213-65-9 | MG/KG | NA | NA | NA | < 0.00038 | < 0.00037 | < 0.00033 | < 0.00039 | < 0.00036 | < 0.00037 | < 0.00036 | < 0.00037 | < 0.0017 | < 0.00038 | < 0.00036 | < 0.00036 | < 0.00034 | < 0.00038 | < 0.00036 | < 0.015 J | < 0.00036 |
| 8081A | Endosulfan sulfate | 1031-07-8 | MG/KG | NA | NA | NA | < 0.00036 | < 0.00036 | < 0.00032 | < 0.00037 | < 0.00035 | < 0.00036 | < 0.00035 | < 0.00036 | < 0.0017 | < 0.00036 | < 0.00034 | < 0.00035 | < 0.00032 | < 0.00037 | < 0.00034 | < 0.014 J | < 0.00035 |
| 8081A | Endrin | 72-20-8 | MG/KG | 18 | 210 | 0.05 | < 0.0004 | < 0.0004 | < 0.00036 | < 0.00042 | < 0.00039 | < 0.0004 | < 0.00039 | < 0.0004 | < 0.0019 | < 0.0004 | < 0.00038 | < 0.00039 | < 0.00036 | < 0.00041 | < 0.00038 | < 0.016 J | < 0.00038 |
| 8081A | Endrin aldehyde | 7421-93-4 | MG/KG | NA | NA | NA | < 0.00028 | < 0.00028 | < 0.00025 | < 0.00029 | < 0.00027 | < 0.00028 | < 0.00027 | < 0.00028 | < 0.0013 | < 0.00028 | < 0.00026 | < 0.00027 | < 0.00025 | < 0.00028 | < 0.00026 | < 0.011 J | < 0.00027 |
| 8081A | Endrin ketone | 53494-70-5 | MG/KG | NA | NA | NA | < 0.00028 | < 0.00028 | < 0.00025 | < 0.00029 | < 0.00027 | < 0.00028 | < 0.00027 | < 0.00028 | < 0.0013 | < 0.00028 | < 0.00026 | < 0.00027 | < 0.00025 | < 0.00028 | < 0.00026 | < 0.011 J | < 0.00027 |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | MG/KG | 0.44 | 1.9 | 0.0005 | < 0.00019 | < 0.00019 | < 0.00017 | < 0.00019 | < 0.00018 | < 0.00019 | < 0.00018 | < 0.00019 | < 0.00087 | < 0.00019 | < 0.00018 | < 0.00018 | < 0.00017 | < 0.00019 | < 0.00018 | < 0.0075 J | < 0.00018 |
| 8081A | gamma-Chlordane | 5103-74-2 | MG/KG | NA | NA | NA | < 0.00035 | < 0.00034 | < 0.00031 | < 0.00036 | < 0.00034 | < 0.00035 | < 0.00034 | < 0.00035 | < 0.0016 | < 0.00035 | < 0.00033 | < 0.00034 | < 0.00031 | < 0.00035 | < 0.00033 | < 0.014 J | < 0.00033 |
| 8081A | Heptachlor | 76-44-8 | MG/KG | 0.11 | 0.43 | 1 | < 0.00028 | < 0.00028 | < 0.00025 | < 0.00029 | < 0.00027 | < 0.00028 | < 0.00027 | < 0.00028 | < 0.0013 | < 0.00028 | < 0.00027 | < 0.00027 | < 0.00025 | < 0.00028 | < 0.00027 | < 0.011 J | < 0.00027 |
| 8081A | Heptachlor epoxide | 1024-57-3 | MG/KG | 0.053 | 0.21 | 0.03 | < 0.00056 | < 0.00055 | < 0.0005 | < 0.00058 | < 0.00054 | < 0.00055 | < 0.00054 | < 0.00055 | < 0.0026 | < 0.00056 | < 0.00053 | < 0.00054 | < 0.0005 | < 0.00057 | < 0.00053 | < 0.022 J | < 0.00054 |
| 8081A | Methoxychlor | 72-43-5 | MG/KG | 310 | 3400 | 8 | 0.0008 J | < 0.00058 | < 0.00052 | < 0.00061 | < 0.00057 | < 0.00059 | < 0.00057 | < 0.00059 | < 0.0027 | < 0.00059 | < 0.00056 | < 0.00057 | < 0.00053 | < 0.0006 | < 0.00056 | < 0.023 J | < 0.00057 |
| 8081A | Toxaphene | 8001-35-2 | MG/KG | 0.44 | 1.7 | 2 | < 0.021 | < 0.02 | < 0.018 | < 0.021 | < 0.02 | < 0.021 | < 0.02 | < 0.021 | < 0.096 | < 0.021 | < 0.02 | < 0.02 | < 0.019 | < 0.021 | < 0.02 | < 0.82 J | < 0.02 |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | 0.016 UB | 0.016 UB | 0.014 UB | < 0.0026 | < 0.0024 | 0.016 UB | 0.015 UB | 0.016 UB | 0.015 UB | 0.016 UB | < 0.0023 | < 0.0024 | < 0.0022 | < 0.0025 | < 0.0023 | < 0.0025 | < 0.0024 |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | MG/KG | 1400 | 1400 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | MG/KG | 0.38 | 0.97 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | MG/KG | 0.84 | 2.1 | 0.0009 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1-Dichloroethane | 75-34-3 | MG/KG | 850 | 2300 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1-Dichloroethene | 75-35-4 | MG/KG | 280 | 470 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | MG/KG | 0.028 | 0.07 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichloroethane | 107-06-2 | MG/KG | 0.35 | 0.84 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichloropropane | 78-87-5 | MG/KG | 0.35 | 0.85 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Butanone (MEK) | 78-93-3 | MG/KG | 32000 | 34000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | BK-1 (0-6) 4/1/2008 | BK-1 (10-16) 4/1/2008 | BK-10(0-5) 4/1/2008 | BK-10(10-15) 4/1/2008 | BK-2 (0-6) 4/1/2008 | BK-2 (10-16) 4/1/2008 | BK-3 (0-6) 4/1/2008 | BK-3 (10-16) 4/1/2008 | BK-4 (0-5) 4/1/2008 | BK-4 (10-15) 4/1/2008 | BK-5 (0-5) 4/2/2008 | BK-5 (10-15) 4/2/2008 | BK-6 (0-5) 4/2/2008 | BK-6 (10-15) 4/2/2008 | BK-7 (0-5) 4/2/2008 | BK-7 (10-15) 4/2/2008 | BK-8 (0-5) 4/1/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Hexanone | 591-78-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | MG/KG | 5800 | 17000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Acetone | 67-64-1 | MG/KG | 14000 | 60000 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene | 71-43-2 | MG/KG | 0.66 | 1.6 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Bromobenzene | 108-86-1 | MG/KG | 73 | 120 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Bromochloromethane | 74-97-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Bromodichloromethane | 75-27-4 | MG/KG | 1 | 2.6 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Bromoform | 75-25-2 | MG/KG | 62 | 240 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Bromomethane | 74-83-9 | MG/KG | 3.9 | 15 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Carbon disulfide | 75-15-0 | MG/KG | 720 | 720 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Carbon tetrachloride | 56-23-5 | MG/KG | 0.24 | 0.58 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Chlorobenzene | 108-90-7 | MG/KG | 270 | 500 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Chloroethane | 75-00-3 | MG/KG | 3 | 7.2 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Chloroform | 67-66-3 | MG/KG | 0.25 | 0.58 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Chloromethane | 74-87-3 | MG/KG | 1.3 | 3 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | MG/KG | 43 | 160 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Dibromochloromethane | 124-48-1 | MG/KG | 1 | 2.6 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Dibromomethane | 74-95-3 | MG/KG | 140 | 590 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Ethylbenzene | 100-41-4 | MG/KG | 230 | 230 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Methylene chloride | 75-09-2 | MG/KG | 8.9 | 22 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | o-Xylene | 95-47-6 | MG/KG | 280 | 280 | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Styrene | 100-42-5 | MG/KG | 1700 | 1700 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Tetrachloroethene | 127-18-4 | MG/KG | 0.55 | 1.7 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Toluene | 108-88-3 | MG/KG | 520 | 520 | 0.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | MG/KG | 120 | 200 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Trichloroethene | 79-01-6 | MG/KG | 0.043 | 0.1 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Trichlorofluoromethane | 75-69-4 | MG/KG | 390 | 1400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Vinyl acetate | 108-05-4 | MG/KG | 430 | 1600 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Vinyl chloride | 75-01-4 | MG/KG | 0.043 | 0.86 | 0.0007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Xylenes (total) | 1330-20-7 | MG/KG | 210 | 210 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | MG/KG | 140 | 260 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | MG/KG | 6100 | 68000 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | MG/KG | 44 | 170 | 0.008 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | MG/KG | 180 | 2100 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | MG/KG | 1200 | 14000 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | MG/KG | 120 | 1400 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | MG/KG | 120 | 1400 | 0.00004 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | MG/KG | 61 | 680 | 0.00003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chloronaphthalene | 91-58-7 | MG/KG | 3900 | 26000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chlorophenol | 95-57-8 | MG/KG | 64 | 260 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Methylnaphthalene | 91-57-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Methylphenol | 95-48-7 | MG/KG | 3100 | 34000 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Nitroaniline | 88-74-4 | MG/KG | 180 | 2000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Nitrophenol | 88-75-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | MG/KG | 1.1 | 4.3 | 0.0003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | MG/KG | 310 | 3400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Nitroaniline | 99-09-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Chloroaniline | 106-47-8 | MG/KG | 240 | 2700 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Nitroaniline | 100-01-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Nitrophenol | 100-02-7 | MG/KG | 490 | 5500 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | BK-1 (0-6) 4/1/2008 | BK-1 (10-16) 4/1/2008 | BK-10(0-5) 4/1/2008 | BK-10(10-15) 4/1/2008 | BK-2 (0-6) 4/1/2008 | BK-2 (10-16) 4/1/2008 | BK-3 (0-6) 4/1/2008 | BK-3 (10-16) 4/1/2008 | BK-4 (0-5) 4/1/2008 | BK-4 (10-15) 4/1/2008 | BK-5 (0-5) 4/2/2008 | BK-5 (10-15) 4/2/2008 | BK-6 (0-5) 4/2/2008 | BK-6 (10-15) 4/2/2008 | BK-7 (0-5) 4/2/2008 | BK-7 (10-15) 4/2/2008 | BK-8 (0-5) 4/1/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Acenaphthene | 83-32-9 | MG/KG | 3700 | 33000 | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acenaphthylene | 208-96-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Aniline | 62-53-3 | MG/KG | 85 | 340 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Anthracene | 120-12-7 | MG/KG | 22000 | 100000 | 590 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(a)anthracene | 56-55-3 | MG/KG | 0.15 | 2.3 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(a)pyrene | 50-32-8 | MG/KG | 0.015 | 0.23 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | MG/KG | 0.15 | 2.3 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(ghi)perylene | 191-24-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | MG/KG | 1.5 | 23 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid | 65-85-0 | MG/KG | 100000 | 100000 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzyl alcohol | 100-51-6 | MG/KG | 18000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | MG/KG | 0.21 | 0.62 | 0.00002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | MG/KG | 2.9 | 8.2 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | MG/KG | 35 | 140 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Butyl benzyl phthalate | 85-68-7 | MG/KG | 240 | 240 | 810 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Chrysene | 218-01-9 | MG/KG | 15 | 230 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | MG/KG | 0.015 | 0.23 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Dibenzofuran | 132-64-9 | MG/KG | 150 | 1700 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Diethyl phthalate | 84-66-2 | MG/KG | 49000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Dimethyl phthalate | 131-11-3 | MG/KG | 100000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Di-n-butyl phthalate | 84-74-2 | MG/KG | 6100 | 68000 | 270 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Di-n-octyl phthalate | 117-84-0 | MG/KG | NA | NA | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Fluoranthene | 206-44-0 | MG/KG | 2300 | 24000 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Fluorene | 86-73-7 | MG/KG | 2600 | 26000 | 28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachlorobenzene | 118-74-1 | MG/KG | 0.3 | 1.2 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachlorobutadiene | 87-68-3 | MG/KG | 6.2 | 25 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | MG/KG | 370 | 4100 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachloroethane | 67-72-1 | MG/KG | 35 | 140 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | MG/KG | 0.15 | 2.3 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Isophorone | 78-59-1 | MG/KG | 510 | 2000 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Naphthalene | 91-20-3 | MG/KG | 120 | 210 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Nitrobenzene | 98-95-3 | MG/KG | 20 | 110 | 0.007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | MG/KG | 0.07 | 0.27 | 0.000002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | MG/KG | 99 | 390 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentachlorophenol | 87-86-5 | MG/KG | 3 | 10 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenanthrene | 85-01-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol | 108-95-2 | MG/KG | 18000 | 100000 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propanil | 709-98-8 | MG/KG | 310 | 3400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pyrene | 129-00-0 | MG/KG | 2300 | 32000 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Notes:

| | |
|---|---|
| | Exceeds the DAF1 MSSL Standard |
| | Exceeds the Industrial Outdoor Worker MSSL Standard |
| **Bold** | Exceeds the Residential Soil MSSL Standard |
| -- | No data available for reported analyte |
| | The analyte was not detected at the concentration given. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| JH | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a high bias. |
| JL | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a low bias. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration |
| UB | Not detected substantially above the concentration reported in the laboratory or field blanks. For organics - 5X (10X for common laboratory contaminants) or for metals 10X. Data point considered non-detect at the reported value. |
| UBJ | Not detected substantially above the concentration reported in the laboratory or field blanks. Data point considered non-detect and the reported value is an approximate. |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | BK-8 (10-15) 4/1/2008 | BK-9 (0-5) 4/1/2008 | BK-9 (10-15) 4/1/2008 | DPT-0 (0-4') 3/27/2008 | DPT-0 (12-16') 3/27/2008 | DPT-1 (0-4') 3/26/2008 | DPT-1 (12-16') 3/26/2008 | DPT-10 (0-4') 3/27/2008 | DPT-10 (12-16') 3/27/2008 | DPT-11 (0-4') 3/27/2008 | DPT-11 (12-16') 3/27/2008 | DPT-12 (0-4') 3/27/2008 | DPT-12 (12-16') 3/27/2008 | DPT-13(2-4') 3/28/2008 | DPT-14(2-4') 3/28/2008 | DPT-14(8-10') 3/28/2008 | DPT-15(2-4') 3/28/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | MG/KG | 76000 | 100000 | NA | 10900 | 13500 | 8800 | 12200 | 7470 | 13400 | 11200 | 12300 | 9440 | 14400 | 8510 | 17200 | 12000 | -- | -- | -- | -- |
| 6020 | Antimony | 7440-36-0 | MG/KG | 31 | 450 | 0.3 | < 0.045 JL | < 0.047 JL | < 0.048 JL | 0.19 UB | 0.31 | 0.37 | 0.45 | 0.25 | 0.4 | 0.33 | 0.3 | 0.17 | 0.18 | -- | -- | -- | -- |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 0.39 | 1.8 | 1 | **4.8 JL** | **11.3 JL** | **6.2 JL** | **5.3** | **9.9** | **4.7** | **9.9** | **128** | **14.6** | **6.7** | **6** | **5.9** | **9.2** | -- | -- | -- | -- |
| 6020 | Barium | 7440-39-3 | MG/KG | 16000 | 100000 | 82 | 142 | 159 | 126 | 107 | 81.3 | 272 | 216 | 87.6 | 147 | 77.4 | 138 | 133 | 192 | -- | -- | -- | -- |
| 6020 | Beryllium | 7440-41-7 | MG/KG | 150 | 2200 | 3 | 0.55 | 0.63 | 0.47 | 0.49 | 0.43 | 0.56 | 0.59 | 0.46 | 0.48 | 0.51 | 0.39 | 0.62 | 0.57 | -- | -- | -- | -- |
| 6020 | Cadmium | 7440-43-9 | MG/KG | 39 | 560 | 0.4 | 0.27 | 0.17 | 0.24 | 0.082 | 0.3 | 0.3 | 0.12 | 0.093 | 0.21 | 0.08 | 0.27 | 0.093 | 0.14 | -- | -- | -- | -- |
| 6020 | Calcium | 7440-70-2 | MG/KG | NA | NA | NA | 2820 | 2350 | 2880 | 13200 | 2490 | 4390 | 2170 | 1810 | 2930 | 1350 | 2360 | 2300 | 1920 | -- | -- | -- | -- |
| 6020 | Chromium | 7440-47-3 | MG/KG | 210 | 500 | 2 | 17.4 JH | 17.7 JH | 15.1 JH | 19.3 JH | 14.4 JH | 14.1 JH | 13.6 JH | 20.8 JH | 14.4 JH | 14.9 JH | 12.3 JH | 16.9 | 15 | -- | -- | -- | -- |
| 6020 | Cobalt | 7440-48-4 | MG/KG | 900 | 2100 | NA | 9 | 11.8 | 6.2 | 10.3 | 9.8 | 12.1 | 4.9 | 7.5 | 8.3 | 8.3 | 7.4 | 7.9 | 6.6 | -- | -- | -- | -- |
| 6020 | Copper | 7440-50-8 | MG/KG | 2900 | 42000 | NA | 17 | 8.1 | 10.9 | 15.2 | 14.9 | 12.4 | 11.4 | 11.4 | 14.9 | 13.2 | 12.2 | 13 | 10.6 | -- | -- | -- | -- |
| 6020 | Iron | 7439-89-6 | MG/KG | 55000 | 100000 | NA | 20200 | 19600 | 17500 | 16900 | 18200 | 15800 | 19700 | 18200 | 23400 | 18900 | 17000 | 19500 | 23400 | -- | -- | -- | -- |
| 6020 | Lead | 7439-92-1 | MG/KG | 400 | 800 | NA | 11.8 JH | 16.8 JH | 8.1 JH | 8.5 | 10.4 | 14.2 | 12.2 | 10 | 11.2 | 11.2 | 9.4 | 12 | 11.4 | -- | -- | -- | -- |
| 6020 | Magnesium | 7439-95-4 | MG/KG | NA | NA | NA | 3100 | 1620 | 2530 | 1820 | 2120 | 1580 | 2550 | 1840 | 2670 | 2080 | 2220 | 2190 | 2640 | -- | -- | -- | -- |
| 6020 | Manganese | 7439-96-5 | MG/KG | 3200 | 35000 | NA | 626 | 1300 | 532 | 519 | 594 | 2690 | 299 | 587 | 559 | 624 | 985 | 655 | 311 | -- | -- | -- | -- |
| 6020 | Nickel | 7440-02-0 | MG/KG | 1600 | 23000 | 7 | 21.7 JH | 14.9 JH | 18 JH | 21.5 | 19.8 | 17.9 | 16.5 | 16.4 | 17.5 | 17.9 | 17.4 | 17.3 | 18.9 | -- | -- | -- | -- |
| 6020 | Potassium | 9/7/7440 | MG/KG | NA | NA | NA | 1330 JH | 983 JH | 993 JH | 1020 JH | 921 JH | 1100 JH | 1230 JH | 1070 JH | 1140 JH | 1020 JH | 972 JH | 1350 | 1450 | -- | -- | -- | -- |
| 6020 | Selenium | 7782-49-2 | MG/KG | 390 | 5700 | 0.3 | 0.29 | 0.4 | < 0.16 | 0.15 | < 0.13 | < 0.15 | < 0.14 | 0.2 | < 0.15 | < 0.15 | < 0.15 | 0.31 | 0.26 | -- | -- | -- | -- |
| 6020 | Silver | 7440-22-4 | MG/KG | 390 | 5700 | 2 | < 0.023 | < 0.025 | < 0.025 | 3.3 | 0.12 | 0.33 | 0.12 | < 0.02 | 0.027 | < 0.023 | < 0.023 | 0.026 | 0.021 | -- | -- | -- | -- |
| 6020 | Sodium | 7440-23-5 | MG/KG | NA | NA | NA | 35 J | < 8.9 | 15.1 J | 115 | 100 J | 763 | 1960 | 79.7 J | 59.7 J | 63.1 J | 46.6 J | 323 | 886 | -- | -- | -- | -- |
| 6020 | Thallium | 7440-28-0 | MG/KG | 5.5 | 80 | 0.4 | 0.32 | 0.24 | 0.23 | 0.2 | 0.27 | 0.31 | 0.35 | 0.23 | 0.29 | 0.25 | 0.25 | 0.29 | 0.34 | -- | -- | -- | -- |
| 6020 | Vanadium | 7440-62-2 | MG/KG | 390 | 5700 | 300 | 24.4 JH | 16.8 JH | 17.8 JH | 26 | 28.3 | 26.5 | 30.4 | 28.4 | 30.2 | 29.4 | 25.4 | 30.1 | 32.8 | -- | -- | -- | -- |
| 6020 | Zinc | 7440-66-6 | MG/KG | 23000 | 100000 | 620 | 61.4 | 52.7 | 46 | 43.9 | 43.7 | 50.4 | 63.9 | 42.2 | 59.1 | 45.2 | 47.5 | 54.6 | 62.6 | -- | -- | -- | -- |
| 7471A | Mercury | 7439-97-6 | MG/KG | NA | NA | 0.1 | 0.022 J | 0.016 J | 0.02 J | 0.021 J | 0.025 J | 0.016 J | 0.027 J | 0.011 J | 0.026 J | 0.02 J | 0.026 J | 0.015 J | 0.0036 J | -- | -- | -- | -- |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | MG/KG | 2.4 | 11 | 0.8 | < 0.00074 | < 0.0034 J | < 0.0007 | < 0.033 J | < 0.036 J | < 0.034 J | < 0.037 J | < 0.037 J | < 0.035 J | 0.15 J | < 0.036 J | 0.044 J | < 0.0071 J | < 0.14 J | < 0.014 J | < 0.014 J | < 0.07 J |
| 8081A | 4,4'-DDE | 72-55-9 | MG/KG | 1.7 | 7.8 | 3 | < 0.00032 | 0.0088 J | < 0.0003 | < 0.014 J | < 0.016 J | 0.03 J | < 0.016 J | < 0.016 J | < 0.015 J | 0.083 J | < 0.016 J | < 0.0029 J | < 0.0031 J | 0.14 J | < 0.0061 J | < 0.0061 J | < 0.03 J |
| 8081A | 4,4'-DDT | 50-29-3 | MG/KG | 1.7 | 7.8 | 2 | < 0.0008 | < 0.0037 J | < 0.00075 | < 0.035 J | < 0.039 J | < 0.037 J | < 0.04 J | 0.071 J | < 0.038 J | < 0.037 J | < 0.039 J | < 0.0073 J | 0.0096 J | 1.2 J | < 0.015 J | < 0.015 J | 0.48 J |
| 8081A | Aldrin | 309-00-2 | MG/KG | 0.029 | 0.11 | 0.02 | < 0.00034 | < 0.0016 J | < 0.00032 | < 0.015 J | < 0.016 J | < 0.016 J | < 0.017 J | < 0.017 J | < 0.016 J | < 0.016 J | < 0.017 J | < 0.0031 J | < 0.0033 J | < 0.064 J | **0.036 J** | < 0.0064 J | < 0.032 J |
| 8081A | alpha-BHC | 319-84-6 | MG/KG | 0.09 | 0.4 | 0.00003 | < 0.00029 | < 0.0013 J | < 0.00027 | < 0.013 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.013 J | < 0.014 J | 0.011 J | 0.014 J | < 0.055 J | < 0.0055 J | < 0.0055 J | < 0.027 J |
| 8081A | alpha-Chlordane | 5103-71-9 | MG/KG | NA | NA | NA | < 0.00044 | < 0.002 J | < 0.00041 | < 0.019 J | < 0.021 J | < 0.02 J | < 0.022 J | < 0.022 J | < 0.021 J | < 0.02 J | < 0.021 J | < 0.004 J | < 0.0042 J | < 0.083 J | < 0.0082 J | < 0.0083 J | 0.39 J |
| 8081A | beta-BHC | 319-85-7 | MG/KG | 0.32 | 1.4 | 0.0001 | < 0.00039 | < 0.0018 J | < 0.00036 | < 0.017 J | < 0.019 J | < 0.018 J | < 0.019 J | < 0.019 J | < 0.018 J | < 0.018 J | < 0.019 J | < 0.0035 J | < 0.0037 J | **0.8 J** | < 0.0073 J | < 0.0073 J | **1.1 J** |
| 8081A | Chlordane (technical) | 57-74-9 | MG/KG | 1.6 | 7.2 | 0.5 | < 0.011 | < 0.048 J | < 0.0099 | < 0.47 J | < 0.51 J | < 0.48 J | < 0.52 J | < 0.53 J | < 0.5 J | < 0.49 J | < 0.51 J | < 0.096 J | < 0.1 J | < 2 J | < 0.2 J | < 0.2 J | < 1 J |
| 8081A | delta-BHC | 319-86-8 | MG/KG | NA | NA | NA | < 0.00023 | < 0.001 J | < 0.00021 | < 0.0099 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.0021 J | < 0.0022 J | < 0.043 J | < 0.0042 J | < 0.0043 J | < 0.021 J |
| 8081A | Dieldrin | 60-57-1 | MG/KG | 0.03 | 0.12 | 0.0002 | < 0.00029 | **0.098 J** | < 0.00027 | < 0.013 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.014 J | < 0.013 J | < 0.013 J | < 0.014 J | < 0.0026 J | 0.0061 J | < 0.054 J | **0.48 J** | < 0.0054 J | **4 J** |
| 8081A | Endosulfan I | 959-98-8 | MG/KG | NA | NA | NA | < 0.00024 | < 0.0011 J | < 0.00022 | < 0.011 J | < 0.011 J | < 0.011 J | < 0.012 J | < 0.012 J | < 0.011 J | < 0.011 J | < 0.012 J | < 0.0022 J | < 0.0023 J | < 0.045 J | < 0.0045 J | < 0.0045 J | < 0.023 J |
| 8081A | Endosulfan II | 33213-65-9 | MG/KG | NA | NA | NA | < 0.00039 | < 0.0018 J | < 0.00037 | < 0.017 J | < 0.019 J | < 0.018 J | < 0.019 J | < 0.019 J | < 0.018 J | < 0.018 J | < 0.019 J | < 0.0035 J | < 0.0037 J | < 0.074 J | < 0.0073 J | < 0.0073 J | < 0.037 J |
| 8081A | Endosulfan sulfate | 1031-07-8 | MG/KG | NA | NA | NA | < 0.00038 | < 0.0017 J | < 0.00035 | < 0.017 J | < 0.018 J | < 0.017 J | < 0.019 J | < 0.019 J | < 0.018 J | < 0.017 J | < 0.018 J | < 0.0034 J | < 0.0036 J | < 0.071 J | < 0.007 J | < 0.0071 J | 0.047 J |
| 8081A | Endrin | 72-20-8 | MG/KG | 18 | 210 | 0.05 | < 0.00042 | < 0.0019 J | < 0.00039 | < 0.018 J | < 0.02 J | < 0.019 J | < 0.021 J | < 0.021 J | < 0.02 J | < 0.019 J | < 0.02 J | 0.0081 J | < 0.004 J | < 0.079 J | < 0.0078 J | < 0.0078 J | < 0.039 J |
| 8081A | Endrin aldehyde | 7421-93-4 | MG/KG | NA | NA | NA | < 0.00029 | < 0.0013 J | < 0.00027 | < 0.013 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.0026 J | < 0.0028 J | < 0.055 J | < 0.0054 J | < 0.0055 J | < 0.027 J |
| 8081A | Endrin ketone | 53494-70-5 | MG/KG | NA | NA | NA | < 0.00029 | < 0.0013 J | < 0.00027 | < 0.013 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.0026 J | < 0.0028 J | < 0.055 J | < 0.0054 J | < 0.0055 J | < 0.027 J |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | MG/KG | 0.44 | 1.9 | 0.0005 | < 0.00019 | < 0.00089 J | < 0.00018 | < 0.0086 J | < 0.0093 J | < 0.0089 J | < 0.0096 J | < 0.0097 J | < 0.0092 J | < 0.0089 J | < 0.0094 J | < 0.0018 J | < 0.0019 J | **5 J** | < 0.0036 J | < 0.0037 J | **0.84 J** |
| 8081A | gamma-Chlordane | 5103-74-2 | MG/KG | NA | NA | NA | < 0.00036 | < 0.0017 J | < 0.00034 | < 0.016 J | < 0.017 J | < 0.017 J | < 0.018 J | < 0.018 J | < 0.017 J | < 0.017 J | < 0.018 J | 0.0048 J | < 0.0035 J | 0.13 J | < 0.0068 J | < 0.0068 J | < 0.034 J |
| 8081A | Heptachlor | 76-44-8 | MG/KG | 0.11 | 0.43 | 1 | < 0.00029 | < 0.0013 J | < 0.00027 | < 0.013 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.013 J | < 0.014 J | < 0.0026 J | < 0.0028 J | < 0.055 J | < 0.0055 J | < 0.0055 J | < 0.027 J |
| 8081A | Heptachlor epoxide | 1024-57-3 | MG/KG | 0.053 | 0.21 | 0.03 | < 0.00058 | < 0.0026 J | < 0.00054 | < 0.025 J | < 0.028 J | < 0.026 J | < 0.029 J | < 0.029 J | < 0.027 J | < 0.027 J | < 0.028 J | 0.027 J | < 0.0055 J | < 0.11 J | < 0.011 J | < 0.011 J | < 0.054 J |
| 8081A | Methoxychlor | 72-43-5 | MG/KG | 310 | 3400 | 8 | < 0.00061 | < 0.0028 J | < 0.00057 | < 0.027 J | < 0.029 J | < 0.028 J | < 0.03 J | < 0.03 J | < 0.029 J | < 0.028 J | < 0.03 J | < 0.0056 J | 0.24 J | 0.14 J | 0.37 J | < 0.012 J | 0.11 J |
| 8081A | Toxaphene | 8001-35-2 | MG/KG | 0.44 | 1.7 | 2 | < 0.022 | < 0.098 J | < 0.02 | < 0.94 J | < 1 J | < 0.98 J | < 1.1 J | < 1.1 J | < 1 J | < 0.99 J | < 1 J | < 0.2 J | < 0.2 J | < 4.1 J | < 0.4 J | < 0.4 J | < 2 J |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | 0.016 UB | < 0.0024 | 0.015 UB | < 0.0023 | < 0.0025 | < 0.0024 | 0.0038 J | 4 | 0.0076 J | 4.2 | < 0.0025 | 9.8 | 0.12 | **83** | 0.64 | 0.015 UBJ | **530** |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | MG/KG | 1400 | 1400 | 0.1 | -- | -- | -- | < 0.0018 | < 0.001 | < 0.0044 | < 0.67 | < 0.005 | < 0.0047 | < 0.0048 | < 0.002 | < 0.5 | < 2.6 | -- | -- | -- | -- |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | MG/KG | 0.38 | 0.97 | 0.0002 | -- | -- | -- | < 0.0075 | < 0.0041 | < 0.018 | < 0.93 | < 0.021 | < 0.019 | < 0.02 | < 0.0084 | < 0.69 | < 3.7 | -- | -- | -- | -- |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | MG/KG | 0.84 | 2.1 | 0.0009 | -- | -- | -- | < 0.0012 | < 0.00068 | < 0.003 | < 0.75 | < 0.0034 | < 0.0032 | < 0.0032 | < 0.0014 | < 0.55 | < 2.9 | -- | -- | -- | -- |
| 8260B | 1,1-Dichloroethane | 75-34-3 | MG/KG | 850 | 2300 | 1 | -- | -- | -- | < 0.0015 | < 0.00081 | < 0.0036 | < 0.71 | < 0.0041 | < 0.0038 | < 0.0039 | < 0.0016 | < 0.53 | < 2.8 | -- | -- | -- | -- |
| 8260B | 1,1-Dichloroethene | 75-35-4 | MG/KG | 280 | 470 | 0.003 | -- | -- | -- | < 0.002 | < 0.0011 | < 0.005 | < 0.74 | < 0.0056 | < 0.0052 | < 0.0053 | < 0.0023 | < 0.55 | < 2.9 | -- | -- | -- | -- |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | MG/KG | 0.028 | 0.07 | NA | -- | -- | -- | < 0.0018 | < 0.00098 | < 0.0044 | < 0.82 | < 0.0049 | < 0.0046 | < 0.0047 | < 0.002 | < 0.6 | < 3.2 | -- | -- | -- | -- |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | 0.0064 J | 0.0056 J | 4.8 J | 1.5 J | 0.073 | < 0.01 | 0.5 | < 0.0045 | 6.9 | < 3 | -- | -- | -- | -- |
| 8260B | 1,2-Dichloroethane | 107-06-2 | MG/KG | 0.35 | 0.84 | 0.001 | -- | -- | -- | 0.035 | 0.076 | < 0.0044 | < 0.8 | **0.4** | **1.6** | 0.011 J | 0.0072 J | < 0.59 | < 3.1 | -- | -- | -- | -- |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | MG/KG | NA | NA | NA | -- | -- | -- | 0.0031 J | < 0.0015 | < 0.0069 | < 1.4 | < 0.0078 | < 0.0072 | < 0.0074 | < 0.0031 | < 1 | < 5.4 | -- | -- | -- | -- |
| 8260B | 1,2-Dichloropropane | 78-87-5 | MG/KG | 0.35 | 0.85 | 0.001 | -- | -- | -- | < 0.0016 | < 0.00088 | < 0.0039 | < 0.84 | < 0.0044 | < 0.0041 | < 0.0042 | < 0.0018 | < 0.62 | < 3.3 | -- | -- | -- | -- |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | < 0.002 | < 0.0011 | < 0.005 | < 0.69 | < 0.0056 | < 0.0052 | < 0.0053 | < 0.0023 | < 0.51 | < 2.7 | -- | -- | -- | -- |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | < 0.0027 | < 0.0015 | 0.014 J | < 0.71 | < 0.0073 | < 0.0068 | < 0.007 | < 0.003 | < 0.53 | < 2.8 | -- | -- | -- | -- |
| 8260B | 2-Butanone (MEK) | 78-93-3 | MG/KG | 32000 | 34000 | NA | -- | -- | -- | 0.024 | 0.003 J | 0.041 J | < 1.4 J | 0.047 J | < 0.011 | 0.088 | 0.029 | < 1.1 J | < 5.7 J | -- | -- | -- | -- |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | BK-8 (10-15) 4/1/2008 | BK-9 (0-5) 4/1/2008 | BK-9 (10-15) 4/1/2008 | DPT-0 (0-4') 3/27/2008 | DPT-0 (12-16') 3/27/2008 | DPT-1 (0-4') 3/26/2008 | DPT-1 (12-16') 3/26/2008 | DPT-10 (0-4') 3/27/2008 | DPT-10 (12-16' 3/27/2008 | DPT-11 (0-4') 3/27/2008 | DPT-11 (12-16' 3/27/2008 | DPT-12 (0-4') 3/27/2008 | DPT-12 (12-16' 3/27/2008 | DPT-13(2-4') 3/28/2008 | DPT-14(2-4') 3/28/2008 | DPT-14(8-10') 3/28/2008 | DPT-15(2-4') 3/28/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.0013 | < 0.00073 | < 0.0032 | < 0.84 | < 0.0037 | < 0.0034 | < 0.0035 | < 0.0015 | < 0.62 | < 3.3 | -- | -- | -- | -- |
| 8260B | 2-Hexanone | 591-78-6 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.007 | < 0.0038 | < 0.017 | < 0.87 | < 0.019 | < 0.018 | < 0.018 | < 0.0079 | < 0.64 | < 3.4 | -- | -- | -- | -- |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | MG/KG | 5800 | 17000 | NA | -- | -- | -- | < 0.004 | < 0.0022 | 0.18 | 1 J | < 0.011 | < 0.01 | < 0.01 | 0.032 | < 0.69 | < 3.7 | -- | -- | -- | -- |
| 8260B | Acetone | 67-64-1 | MG/KG | 14000 | 60000 | 0.8 | -- | -- | -- | 0.084 J | 0.0069 J | 0.35 | 3.4 J | 0.039 J | < 0.011 | 0.11 J | 0.23 | 3.9 J | < 5.9 | -- | -- | -- | -- |
| 8260B | Benzene | 71-43-2 | MG/KG | 0.66 | 1.6 | 0.002 | -- | -- | -- | < 0.0016 | < 0.00087 | < 0.0039 | < 0.79 | < 0.0044 | < 0.0041 | < 0.0041 | < 0.0018 | < 0.59 | < 3.1 | -- | -- | -- | -- |
| 8260B | Bromobenzene | 108-86-1 | MG/KG | 73 | 120 | NA | -- | -- | -- | < 0.0014 | < 0.00076 | < 0.0034 | < 0.75 | < 0.0038 | < 0.0035 | < 0.0036 | < 0.0015 | < 0.56 | < 3 | -- | -- | -- | -- |
| 8260B | Bromochloromethane | 74-97-5 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.0019 | < 0.001 | < 0.0046 | < 0.67 | < 0.0052 | < 0.0048 | < 0.0049 | < 0.0021 | < 0.49 | < 2.6 | -- | -- | -- | -- |
| 8260B | Bromodichloromethane | 75-27-4 | MG/KG | 1 | 2.6 | 0.03 | -- | -- | -- | < 0.0015 | < 0.0008 | < 0.0036 | < 0.86 | < 0.004 | < 0.0038 | < 0.0038 | < 0.0016 | < 0.63 | < 3.4 | -- | -- | -- | -- |
| 8260B | Bromoform | 75-25-2 | MG/KG | 62 | 240 | 0.04 | -- | -- | -- | < 0.0026 | < 0.0014 | < 0.0064 | < 1.2 | < 0.0073 | < 0.0068 | < 0.0069 | < 0.003 | < 0.91 | < 4.9 | -- | -- | -- | -- |
| 8260B | Bromomethane | 74-83-9 | MG/KG | 3.9 | 15 | 0.01 | -- | -- | -- | < 0.0015 | < 0.00085 | < 0.0038 | < 0.72 | < 0.0043 | < 0.004 | < 0.0041 | < 0.0017 | < 0.53 | < 2.8 | -- | -- | -- | -- |
| 8260B | Carbon disulfide | 75-15-0 | MG/KG | 720 | 720 | 2 | -- | -- | -- | < 0.0019 | < 0.0011 | < 0.0048 | < 0.68 | < 0.0054 | < 0.005 | < 0.0051 | < 0.0022 | < 0.5 | < 2.7 | -- | -- | -- | -- |
| 8260B | Carbon tetrachloride | 56-23-5 | MG/KG | 0.24 | 0.58 | 0.003 | -- | -- | -- | < 0.0027 | < 0.0015 | < 0.0066 | < 0.73 | < 0.0074 | < 0.0069 | < 0.0071 | < 0.003 | < 0.54 | < 2.9 | -- | -- | -- | -- |
| 8260B | Chlorobenzene | 108-90-7 | MG/KG | 270 | 500 | 0.07 | -- | -- | -- | < 0.0014 | < 0.00075 | 0.0096 J | < 0.71 | < 0.0038 | < 0.0035 | 0.0078 J | < 0.0015 | < 0.52 | < 2.8 | -- | -- | -- | -- |
| 8260B | Chloroethane | 75-00-3 | MG/KG | 3 | 7.2 | NA | -- | -- | -- | < 0.0016 | < 0.0009 | < 0.004 | < 0.71 | < 0.0045 | < 0.0042 | < 0.0043 | < 0.0018 | < 0.53 | < 2.8 | -- | -- | -- | -- |
| 8260B | Chloroform | 67-66-3 | MG/KG | 0.25 | 0.58 | 0.03 | -- | -- | -- | < 0.0017 | < 0.00094 | < 0.0042 | < 0.67 | < 0.0048 | < 0.0044 | < 0.0045 | < 0.0019 | < 0.5 | < 2.6 | -- | -- | -- | -- |
| 8260B | Chloromethane | 74-87-3 | MG/KG | 1.3 | 3 | NA | -- | -- | -- | < 0.0015 | < 0.0008 | < 0.0036 | < 0.77 | < 0.004 | < 0.0038 | < 0.0038 | < 0.0016 | < 0.57 | < 3 | -- | -- | -- | -- |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | MG/KG | 43 | 160 | 0.02 | -- | -- | -- | 0.0031 J | 0.0015 J | < 0.0037 | < 0.69 | 0.0043 J | < 0.0038 | < 0.0039 | < 0.0017 | < 0.51 | < 2.7 | -- | -- | -- | -- |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | < 0.0014 | < 0.00075 | < 0.0033 | < 0.78 | < 0.0038 | < 0.0035 | < 0.0036 | < 0.0015 | < 0.58 | < 3.1 | -- | -- | -- | -- |
| 8260B | Dibromochloromethane | 124-48-1 | MG/KG | 1 | 2.6 | 0.02 | -- | -- | -- | < 0.0015 | < 0.00084 | < 0.0038 | < 0.72 | < 0.0043 | < 0.004 | < 0.004 | < 0.0017 | < 0.53 | < 2.8 | -- | -- | -- | -- |
| 8260B | Dibromomethane | 74-95-3 | MG/KG | 140 | 590 | NA | -- | -- | -- | < 0.0021 | < 0.0011 | < 0.0051 | < 0.82 | < 0.0058 | < 0.0054 | < 0.0055 | < 0.0023 | < 0.61 | < 3.2 | -- | -- | -- | -- |
| 8260B | Ethylbenzene | 100-41-4 | MG/KG | 230 | 230 | 0.7 | -- | -- | -- | < 0.002 | < 0.0011 | 0.035 | 1.5 J | < 0.0055 | < 0.0052 | 0.0053 J | < 0.0023 | 0.89 J | 10 | -- | -- | -- | -- |
| 8260B | Methylene chloride | 75-09-2 | MG/KG | 8.9 | 22 | 0.001 | -- | -- | -- | 0.0022 J | 0.0028 J | < 0.0052 | < 0.74 | < 0.0059 | 0.014 J | < 0.0056 | 0.0045 J | < 0.55 | < 2.9 | -- | -- | -- | -- |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.0037 | < 0.0021 | 0.19 | 6.7 | < 0.01 | < 0.0096 | 0.033 J | < 0.0042 | 3.7 | 39 | -- | -- | -- | -- |
| 8260B | o-Xylene | 95-47-6 | MG/KG | 280 | 280 | 9 | -- | -- | -- | < 0.0013 | < 0.00074 | 0.14 | 5 | < 0.0037 | < 0.0035 | 0.016 J | < 0.0015 | 2 | 20 | -- | -- | -- | -- |
| 8260B | Styrene | 100-42-5 | MG/KG | 1700 | 1700 | 0.2 | -- | -- | -- | < 0.0013 | < 0.00069 | < 0.0031 | < 0.71 | < 0.0035 | < 0.0032 | < 0.0033 | < 0.0014 | < 0.52 | < 2.8 | -- | -- | -- | -- |
| 8260B | Tetrachloroethene | 127-18-4 | MG/KG | 0.55 | 1.7 | 0.003 | -- | -- | -- | 0.28 | 0.016 | < 0.0091 | < 0.77 | **2.1** | 0.15 | < 0.0098 | < 0.0042 | < 0.57 | < 3 | -- | -- | -- | -- |
| 8260B | Toluene | 108-88-3 | MG/KG | 520 | 520 | 0.6 | -- | -- | -- | 0.053 | 0.0045 J | 2 J | 37 | 0.084 | 0.033 | 0.85 | 0.044 | 25 | 400 | -- | -- | -- | -- |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | MG/KG | 120 | 200 | 0.03 | -- | -- | -- | < 0.0016 | < 0.00089 | < 0.004 | < 0.68 | < 0.0045 | < 0.0042 | < 0.0043 | < 0.0018 | < 0.5 | < 2.7 | -- | -- | -- | -- |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | < 0.0015 | < 0.00082 | < 0.0037 | < 0.71 | < 0.0042 | < 0.0039 | < 0.0039 | < 0.0017 | < 0.52 | < 2.8 | -- | -- | -- | -- |
| 8260B | Trichloroethene | 79-01-6 | MG/KG | 0.043 | 0.1 | 0.003 | -- | -- | -- | < 0.0022 | < 0.0012 | < 0.0054 | < 0.73 | 0.0066 J | < 0.0057 | < 0.0059 | < 0.0025 | < 0.54 | < 2.9 | -- | -- | -- | -- |
| 8260B | Trichlorofluoromethane | 75-69-4 | MG/KG | 390 | 1400 | NA | -- | -- | -- | < 0.0024 | < 0.0013 | < 0.006 J | < 0.71 | < 0.0067 | < 0.0063 | < 0.0064 | < 0.0027 | < 0.52 | < 2.8 | -- | -- | -- | -- |
| 8260B | Vinyl acetate | 108-05-4 | MG/KG | 430 | 1600 | 8 | -- | -- | -- | < 0.0025 | < 0.0014 | < 0.0062 | < 1.1 | < 0.007 | < 0.0065 | < 0.0066 | < 0.0028 | < 0.79 | < 4.2 | -- | -- | -- | -- |
| 8260B | Vinyl chloride | 75-01-4 | MG/KG | 0.043 | 0.86 | 0.0007 | -- | -- | -- | < 0.0018 | < 0.00099 | < 0.0044 | < 0.74 | < 0.005 | < 0.0047 | < 0.0048 | < 0.002 | < 0.55 | < 2.9 | -- | -- | -- | -- |
| 8260B | Xylenes (total) | 1330-20-7 | MG/KG | 210 | 210 | 10 | -- | -- | -- | < 0.005 | < 0.0027 | 0.33 | 12 | < 0.014 | < 0.013 | 0.049 J | < 0.0056 | 5.7 | 59 | -- | -- | -- | -- |
| | **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | MG/KG | 140 | 260 | 0.3 | -- | -- | -- | < 0.054 | < 0.059 | < 0.056 | < 0.06 | < 0.061 | < 0.058 | < 0.056 | < 0.059 | < 0.28 | < 0.29 | -- | -- | -- | -- |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | < 0.047 | < 0.052 | 0.9 | 0.59 | 0.32 J | < 0.051 | 0.12 J | < 0.052 | 17 | 3.2 | -- | -- | -- | -- |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | < 0.041 | < 0.045 | < 0.043 | < 0.046 | < 0.046 | < 0.044 | < 0.043 | < 0.045 | < 0.21 | < 0.22 | -- | -- | -- | -- |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | < 0.036 | < 0.039 | < 0.037 | < 0.04 | < 0.04 | < 0.038 | < 0.037 | < 0.039 | 0.22 J | < 0.19 | -- | -- | -- | -- |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | MG/KG | 6100 | 68000 | 14 | -- | -- | -- | < 0.041 | < 0.045 | < 0.043 | < 0.046 | < 0.046 | < 0.044 | < 0.043 | < 0.045 | < 0.21 | < 0.22 | -- | -- | -- | -- |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | MG/KG | 44 | 170 | 0.008 | -- | -- | -- | < 0.053 | < 0.057 | < 0.055 | < 0.059 | < 0.059 | < 0.056 | < 0.055 | < 0.058 | < 0.27 | < 0.28 | -- | -- | -- | -- |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | MG/KG | 180 | 2100 | 0.05 | -- | -- | -- | < 0.052 | < 0.057 | < 0.054 | < 0.058 | < 0.059 | < 0.056 | < 0.054 | < 0.057 | < 0.27 | < 0.28 | -- | -- | -- | -- |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | MG/KG | 1200 | 14000 | 0.4 | -- | -- | -- | < 0.094 | < 0.1 | < 0.098 | < 0.11 | < 0.11 | < 0.1 | < 0.098 | < 0.1 | < 0.49 | < 0.51 | -- | -- | -- | -- |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | MG/KG | 120 | 1400 | 0.01 | -- | -- | -- | < 0.21 | < 0.23 | < 0.22 | < 0.24 | < 0.24 | < 0.23 | < 0.22 | < 0.24 | < 1.1 | < 1.2 | -- | -- | -- | -- |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | MG/KG | 120 | 1400 | 0.00004 | -- | -- | -- | < 0.19 | < 0.21 | < 0.2 | < 0.21 | < 0.21 | < 0.2 | < 0.2 | < 0.21 | < 0.97 | < 1 | -- | -- | -- | -- |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | MG/KG | 61 | 680 | 0.00003 | -- | -- | -- | < 0.049 | < 0.053 | < 0.051 | < 0.055 | < 0.055 | < 0.053 | < 0.051 | < 0.054 | < 0.25 | < 0.27 | -- | -- | -- | -- |
| 8270C | 2-Chloronaphthalene | 91-58-7 | MG/KG | 3900 | 26000 | NA | -- | -- | -- | < 0.037 | < 0.041 | < 0.039 | < 0.042 | < 0.042 | < 0.04 | < 0.039 | < 0.041 | < 0.19 | < 0.2 | -- | -- | -- | -- |
| 8270C | 2-Chlorophenol | 95-57-8 | MG/KG | 64 | 260 | 0.2 | -- | -- | -- | < 0.035 | < 0.038 | < 0.036 | < 0.039 | < 0.039 | < 0.037 | < 0.036 | < 0.038 | < 0.18 | < 0.19 | -- | -- | -- | -- |
| 8270C | 2-Methylnaphthalene | 91-57-6 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.038 | < 0.042 | < 0.04 | 0.078 J | < 0.043 | < 0.041 | < 0.04 | < 0.042 | < 0.2 | < 0.21 | -- | -- | -- | -- |
| 8270C | 2-Methylphenol | 95-48-7 | MG/KG | 3100 | 34000 | 0.8 | -- | -- | -- | < 0.048 | < 0.052 | < 0.05 | 0.11 J | < 0.054 | < 0.051 | < 0.05 | < 0.052 | < 0.25 | 0.74 J | -- | -- | -- | -- |
| 8270C | 2-Nitroaniline | 88-74-4 | MG/KG | 180 | 2000 | NA | -- | -- | -- | < 0.051 | < 0.055 | < 0.053 | < 0.057 | < 0.057 | < 0.055 | < 0.053 | < 0.056 | < 0.26 | < 0.28 | -- | -- | -- | -- |
| 8270C | 2-Nitrophenol | 88-75-5 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.075 | < 0.082 | < 0.078 | < 0.085 | < 0.085 | < 0.081 | < 0.079 | < 0.083 | < 0.39 | < 0.41 | -- | -- | -- | -- |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | MG/KG | 1.1 | 4.3 | 0.0003 | -- | -- | -- | < 0.029 | < 0.031 | < 0.03 | < 0.032 | < 0.032 | < 0.031 | < 0.03 | < 0.031 | < 0.15 | < 0.15 | -- | -- | -- | -- |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | MG/KG | NA | NA | NA | -- | -- | -- | 0.22 J | 0.42 J | 22 | 18 | 78 | 0.23 J | 38 | 0.1 J | 59 | 22 | -- | -- | -- | -- |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | MG/KG | 310 | 3400 | NA | -- | -- | -- | < 0.077 | < 0.085 | < 0.081 | 0.14 J | < 0.088 | < 0.083 | < 0.081 | < 0.085 | < 0.4 | 0.88 J | -- | -- | -- | -- |
| 8270C | 3-Nitroaniline | 99-09-2 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.038 | < 0.042 | < 0.04 | < 0.043 | < 0.043 | < 0.041 | < 0.04 | < 0.042 | < 0.2 | < 0.21 | -- | -- | -- | -- |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.17 | < 0.19 | < 0.18 | < 0.19 | < 0.19 | < 0.18 | < 0.18 | < 0.19 | < 0.88 | < 0.92 | -- | -- | -- | -- |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.036 | < 0.039 | < 0.038 | < 0.041 | < 0.041 | < 0.039 | < 0.038 | < 0.04 | < 0.19 | < 0.2 | -- | -- | -- | -- |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.063 | < 0.069 | < 0.066 | < 0.071 | < 0.071 | < 0.068 | < 0.066 | < 0.069 | < 0.33 | < 0.34 | -- | -- | -- | -- |
| 8270C | 4-Chloroaniline | 106-47-8 | MG/KG | 240 | 2700 | 0.03 | -- | -- | -- | < 0.045 | < 0.049 | < 0.047 | < 0.05 | < 0.051 | < 0.048 | 0.048 J | 0.15 J | 3.7 | < 0.24 | -- | -- | -- | -- |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.031 | < 0.033 | < 0.032 | < 0.034 | < 0.035 | < 0.033 | < 0.032 | < 0.034 | < 0.16 | < 0.17 | -- | -- | -- | -- |
| 8270C | 4-Nitroaniline | 100-01-6 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.12 | < 0.13 | < 0.12 | < 0.13 | < 0.14 | < 0.13 | < 0.12 | < 0.13 | < 0.62 | < 0.65 | -- | -- | -- | -- |
| 8270C | 4-Nitrophenol | 100-02-7 | MG/KG | 490 | 5500 | NA | -- | -- | -- | < 0.18 | < 0.2 | < 0.19 | < 0.2 | < 0.2 | < 0.19 | < 0.19 | < 0.2 | < 0.93 | < 0.98 | -- | -- | -- | -- |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | BK-8 (10-15) 4/1/2008 | BK-9 (0-5) 4/1/2008 | BK-9 (10-15) 4/1/2008 | DPT-0 (0-4') 3/27/2008 | DPT-0 (12-16') 3/27/2008 | DPT-1 (0-4') 3/26/2008 | DPT-1 (12-16') 3/26/2008 | DPT-10 (0-4') 3/27/2008 | DPT-10 (12-16' 3/27/2008 | DPT-11 (0-4') 3/27/2008 | DPT-11 (12-16' 3/27/2008 | DPT-12 (0-4') 3/27/2008 | DPT-12 (12-16' 3/27/2008 | DPT-13(2-4') 3/28/2008 | DPT-14(2-4') 3/28/2008 | DPT-14(8-10') 3/28/2008 | DPT-15(2-4') 3/28/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Acenaphthene | 83-32-9 | MG/KG | 3700 | 33000 | 29 | -- | -- | -- | < 0.041 | < 0.045 | < 0.043 | < 0.047 | < 0.047 | < 0.045 | < 0.043 | < 0.046 | < 0.21 | < 0.22 | -- | -- | -- | -- |
| 8270C | Acenaphthylene | 208-96-8 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.039 | < 0.043 | < 0.041 | < 0.044 | < 0.044 | < 0.042 | < 0.041 | < 0.043 | < 0.2 | < 0.21 | -- | -- | -- | -- |
| 8270C | Aniline | 62-53-3 | MG/KG | 85 | 340 | NA | -- | -- | -- | < 0.038 | < 0.041 | < 0.039 | < 0.042 | < 0.043 | < 0.041 | < 0.039 | < 0.042 | < 0.2 | < 0.2 | -- | -- | -- | -- |
| 8270C | Anthracene | 120-12-7 | MG/KG | 22000 | 100000 | 590 | -- | -- | -- | < 0.029 | < 0.032 | < 0.031 | < 0.033 | < 0.033 | < 0.032 | < 0.031 | < 0.032 | < 0.15 | < 0.16 | -- | -- | -- | -- |
| 8270C | Benzo(a)anthracene | 56-55-3 | MG/KG | 0.15 | 2.3 | 0.08 | -- | -- | -- | < 0.024 | < 0.026 | < 0.025 | < 0.027 | < 0.027 | < 0.026 | < 0.025 | < 0.026 | < 0.12 | < 0.13 | -- | -- | -- | -- |
| 8270C | Benzo(a)pyrene | 50-32-8 | MG/KG | 0.015 | 0.23 | 0.4 | -- | -- | -- | < 0.027 | < 0.03 | < 0.028 | < 0.031 | < 0.031 | < 0.029 | < 0.028 | < 0.03 | < 0.14 | < 0.15 | -- | -- | -- | -- |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | MG/KG | 0.15 | 2.3 | 0.2 | -- | -- | -- | < 0.062 | < 0.068 | < 0.065 | < 0.07 | < 0.071 | < 0.067 | < 0.065 | < 0.069 | < 0.32 | < 0.34 | -- | -- | -- | -- |
| 8270C | Benzo(ghi)perylene | 191-24-2 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.032 | < 0.035 | < 0.033 | < 0.036 | < 0.036 | < 0.034 | < 0.034 | < 0.035 | < 0.17 | < 0.17 | -- | -- | -- | -- |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | MG/KG | 1.5 | 23 | 2 | -- | -- | -- | < 0.048 | < 0.052 | < 0.049 | < 0.053 | < 0.054 | < 0.051 | < 0.05 | < 0.052 | < 0.25 | < 0.26 | -- | -- | -- | -- |
| 8270C | Benzoic acid | 65-85-0 | MG/KG | 100000 | 100000 | 20 | -- | -- | -- | < 0.14 | < 0.15 | < 0.14 | < 0.16 | < 0.16 | < 0.15 | < 0.14 | < 0.15 | < 0.72 | < 0.75 | -- | -- | -- | -- |
| 8270C | Benzyl alcohol | 100-51-6 | MG/KG | 18000 | 100000 | NA | -- | -- | -- | < 0.099 | < 0.11 | < 0.1 | < 0.11 | < 0.11 | < 0.11 | < 0.1 | < 0.11 | < 0.51 | < 0.54 | -- | -- | -- | -- |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.039 | < 0.042 | < 0.04 | < 0.044 | < 0.044 | < 0.042 | < 0.041 | < 0.043 | < 0.2 | < 0.21 | -- | -- | -- | -- |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | MG/KG | 0.21 | 0.62 | 0.00002 | -- | -- | -- | < 0.041 | < 0.045 | < 0.043 | < 0.046 | < 0.046 | < 0.044 | < 0.043 | < 0.045 | < 0.21 | < 0.22 | -- | -- | -- | -- |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | MG/KG | 2.9 | 8.2 | NA | -- | -- | -- | < 0.033 | < 0.036 | < 0.034 | < 0.037 | < 0.037 | < 0.035 | < 0.034 | < 0.036 | < 0.17 | < 0.18 | -- | -- | -- | -- |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | MG/KG | 35 | 140 | 180 | -- | -- | -- | 0.1 J | 0.12 J | 0.39 J | 0.18 J | 0.39 J | 0.15 J | 0.068 J | 0.1 J | 0.47 J | < 0.27 | -- | -- | -- | -- |
| 8270C | Butyl benzyl phthalate | 85-68-7 | MG/KG | 240 | 240 | 810 | -- | -- | -- | < 0.031 | < 0.034 | < 0.032 | < 0.035 | < 0.035 | < 0.033 | < 0.033 | < 0.034 | < 0.16 | < 0.17 | -- | -- | -- | -- |
| 8270C | Chrysene | 218-01-9 | MG/KG | 15 | 230 | 8 | -- | -- | -- | < 0.027 | < 0.03 | < 0.028 | < 0.03 | < 0.031 | < 0.029 | < 0.028 | < 0.03 | < 0.14 | < 0.15 | -- | -- | -- | -- |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | MG/KG | 0.015 | 0.23 | 0.08 | -- | -- | -- | < 0.1 | < 0.11 | < 0.1 | < 0.11 | < 0.11 | < 0.11 | < 0.1 | < 0.11 | < 0.52 | < 0.54 | -- | -- | -- | -- |
| 8270C | Dibenzofuran | 132-64-9 | MG/KG | 150 | 1700 | NA | -- | -- | -- | < 0.043 | < 0.047 | < 0.045 | < 0.048 | < 0.049 | < 0.046 | < 0.045 | < 0.047 | < 0.22 | < 0.23 | -- | -- | -- | -- |
| 8270C | Diethyl phthalate | 84-66-2 | MG/KG | 49000 | 100000 | NA | -- | -- | -- | < 0.026 | < 0.028 | < 0.027 | < 0.029 | < 0.029 | < 0.028 | < 0.027 | < 0.028 | < 0.13 | < 0.14 | -- | -- | -- | -- |
| 8270C | Dimethyl phthalate | 131-11-3 | MG/KG | 100000 | 100000 | NA | -- | -- | -- | < 0.028 | < 0.031 | < 0.03 | < 0.032 | < 0.032 | < 0.031 | < 0.03 | < 0.031 | < 0.15 | < 0.15 | -- | -- | -- | -- |
| 8270C | Di-n-butyl phthalate | 84-74-2 | MG/KG | 6100 | 68000 | 270 | -- | -- | -- | < 0.029 | < 0.032 | < 0.031 | < 0.033 | < 0.033 | < 0.032 | < 0.031 | < 0.032 | < 0.15 | 0.2 J | -- | -- | -- | -- |
| 8270C | Di-n-octyl phthalate | 117-84-0 | MG/KG | NA | NA | 10000 | -- | -- | -- | < 0.14 | < 0.16 | < 0.15 | < 0.16 | 0.48 | < 0.16 | < 0.15 | < 0.16 | < 0.75 | < 0.78 | -- | -- | -- | -- |
| 8270C | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | -- | -- | -- | < 0.016 | 0.36 J | < 0.016 | < 0.018 | **270** | 3.1 | **250** | < 0.017 | **530** | 6 | -- | -- | -- | -- |
| 8270C | Fluoranthene | 206-44-0 | MG/KG | 2300 | 24000 | 210 | -- | -- | -- | < 0.029 | < 0.032 | < 0.03 | < 0.033 | < 0.033 | < 0.031 | < 0.03 | < 0.032 | < 0.15 | < 0.16 | -- | -- | -- | -- |
| 8270C | Fluorene | 86-73-7 | MG/KG | 2600 | 26000 | 28 | -- | -- | -- | < 0.028 | < 0.03 | < 0.029 | < 0.031 | < 0.031 | < 0.03 | < 0.029 | < 0.03 | < 0.14 | < 0.15 | -- | -- | -- | -- |
| 8270C | Hexachlorobenzene | 118-74-1 | MG/KG | 0.3 | 1.2 | 0.1 | -- | -- | -- | < 0.034 | < 0.037 | < 0.035 | < 0.038 | < 0.038 | < 0.036 | < 0.035 | < 0.037 | < 0.17 | < 0.18 | -- | -- | -- | -- |
| 8270C | Hexachlorobutadiene | 87-68-3 | MG/KG | 6.2 | 25 | 0.1 | -- | -- | -- | < 0.049 | < 0.053 | < 0.05 | < 0.054 | < 0.055 | < 0.052 | < 0.051 | < 0.053 | < 0.25 | < 0.26 | -- | -- | -- | -- |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | MG/KG | 370 | 4100 | 20 | -- | -- | -- | < 0.2 | < 0.22 | < 0.21 | < 0.23 | < 0.23 | < 0.22 | < 0.21 | < 0.22 | < 1 | < 1.1 | -- | -- | -- | -- |
| 8270C | Hexachloroethane | 67-72-1 | MG/KG | 35 | 140 | 0.02 | -- | -- | -- | < 0.051 | < 0.056 | < 0.054 | < 0.058 | < 0.058 | < 0.055 | < 0.054 | < 0.057 | < 0.27 | < 0.28 | -- | -- | -- | -- |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | MG/KG | 0.15 | 2.3 | 0.7 | -- | -- | -- | < 0.062 | < 0.067 | < 0.064 | < 0.069 | < 0.07 | < 0.066 | < 0.064 | < 0.068 | < 0.32 | < 0.33 | -- | -- | -- | -- |
| 8270C | Isophorone | 78-59-1 | MG/KG | 510 | 2000 | 0.03 | -- | -- | -- | < 0.051 | < 0.056 | 10 | 67 | < 0.058 | < 0.055 | < 0.053 | < 0.056 | < 0.26 | 3.9 | -- | -- | -- | -- |
| 8270C | Naphthalene | 91-20-3 | MG/KG | 120 | 210 | 4 | -- | -- | -- | < 0.038 | < 0.042 | 0.1 J | 0.19 J | < 0.043 | < 0.041 | < 0.04 | < 0.042 | < 0.2 | 0.39 J | -- | -- | -- | -- |
| 8270C | Nitrobenzene | 98-95-3 | MG/KG | 20 | 110 | 0.007 | -- | -- | -- | < 0.059 | < 0.064 | < 0.061 | < 0.066 | < 0.066 | < 0.063 | < 0.061 | < 0.065 | < 0.3 | < 0.32 | -- | -- | -- | -- |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | MG/KG | 0.07 | 0.27 | 0.000002 | -- | -- | -- | < 0.029 | < 0.032 | < 0.03 | < 0.033 | < 0.033 | < 0.031 | < 0.03 | < 0.032 | < 0.15 | < 0.16 | -- | -- | -- | -- |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | MG/KG | 99 | 390 | 0.06 | -- | -- | -- | < 0.027 | < 0.03 | < 0.028 | < 0.03 | < 0.031 | < 0.029 | < 0.028 | < 0.03 | < 0.14 | < 0.15 | -- | -- | -- | -- |
| 8270C | Pentachlorophenol | 87-86-5 | MG/KG | 3 | 10 | 0.001 | -- | -- | -- | < 0.06 | < 0.066 | < 0.063 | < 0.068 | < 0.068 | < 0.065 | < 0.063 | < 0.066 | < 0.31 | < 0.33 | -- | -- | -- | -- |
| 8270C | Phenanthrene | 85-01-8 | MG/KG | NA | NA | NA | -- | -- | -- | < 0.026 | < 0.029 | < 0.028 | < 0.03 | < 0.03 | < 0.028 | < 0.028 | < 0.029 | < 0.14 | < 0.14 | -- | -- | -- | -- |
| 8270C | Phenol | 108-95-2 | MG/KG | 18000 | 100000 | 5 | -- | -- | -- | < 0.039 | < 0.043 | < 0.041 | < 0.044 | < 0.044 | < 0.042 | 0.21 J | < 0.043 | < 0.2 | < 0.21 | -- | -- | -- | -- |
| 8270C | Propanil | 709-98-8 | MG/KG | 310 | 3400 | NA | -- | -- | -- | < 0.033 | < 0.036 | 1 | 30 | 14 | < 0.036 | 1.6 | < 0.037 | 120 | 110 | -- | -- | -- | -- |
| 8270C | Pyrene | 129-00-0 | MG/KG | 2300 | 32000 | 210 | -- | -- | -- | < 0.028 | < 0.03 | < 0.029 | < 0.031 | < 0.032 | < 0.03 | < 0.029 | < 0.031 | < 0.14 | < 0.15 | -- | -- | -- | -- |

Notes:

| | |
|---|---|
| | Exceeds the DAF1 MSSL Standard |
| | Exceeds the Industrial Outdoor Worker MSSL Standard |
| **Bold** | Exceeds the Residential Soil MSSL Standard |
| -- | No data available for reported analyte |
| | The analyte was not detected at the concentration given. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| JH | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a high bias. |
| JL | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a low bias. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration |
| UB | Not detected substantially above the concentration reported in the laboratory or field blanks. For organics - 5X (10X for common laboratory contaminants) or for metals 10X. Data point considered non-detect at the reported value. |
| UBJ | Not detected substantially above the concentration reported in the laboratory or field blanks. Data point considered non-detect and the reported value is an approximate. |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-15(4-6') 3/28/2008 | DPT-16(2-4') 3/28/2008 | DPT-16(6-8') 3/28/2008 | DPT-17/TW-5(12-14') 3/28/2008 | DPT-17/TW-5(2-4') 3/28/2008 | DPT-18(14-16') 3/28/2008 | DPT-18(2-4') 3/28/2008 | DPT-18(4-6') 3/28/2008 | DPT-19(2-4') 3/28/2008 | DPT-2 (0-4') 3/26/2008 | DPT-2 (12-16') 3/26/2008 | DPT-20(2-4') 3/28/2008 | DPT-21(2-4') 3/28/2008 | DPT-21(8-10') 3/28/2008 | DPT-22(2-4') 3/28/2008 | DPT-22(8-10') 3/28/2008 | DPT-23(14-16') 3/28/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | MG/KG | 76000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7320 | 10700 | -- | -- | -- | -- | -- | -- |
| 6020 | Antimony | 7440-36-0 | MG/KG | 31 | 450 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 UB | 0.48 | -- | -- | -- | -- | -- | -- |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 0.39 | 1.8 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | **4.2** | **10.4** | -- | -- | -- | -- | -- | -- |
| 6020 | Barium | 7440-39-3 | MG/KG | 16000 | 100000 | 82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 68.4 | 196 | -- | -- | -- | -- | -- | -- |
| 6020 | Beryllium | 7440-41-7 | MG/KG | 150 | 2200 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.34 | 0.55 | -- | -- | -- | -- | -- | -- |
| 6020 | Cadmium | 7440-43-9 | MG/KG | 39 | 560 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.13 | 0.54 | -- | -- | -- | -- | -- | -- |
| 6020 | Calcium | 7440-70-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17600 | 1580 | -- | -- | -- | -- | -- | -- |
| 6020 | Chromium | 7440-47-3 | MG/KG | 210 | 500 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 22.9 JH | 14.8 JH | -- | -- | -- | -- | -- | -- |
| 6020 | Cobalt | 7440-48-4 | MG/KG | 900 | 2100 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.8 | 8.7 | -- | -- | -- | -- | -- | -- |
| 6020 | Copper | 7440-50-8 | MG/KG | 2900 | 42000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.2 | 17.8 | -- | -- | -- | -- | -- | -- |
| 6020 | Iron | 7439-89-6 | MG/KG | 55000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10400 | 21300 | -- | -- | -- | -- | -- | -- |
| 6020 | Lead | 7439-92-1 | MG/KG | 400 | 800 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.6 | 12.7 | -- | -- | -- | -- | -- | -- |
| 6020 | Magnesium | 7439-95-4 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1820 | 2580 | -- | -- | -- | -- | -- | -- |
| 6020 | Manganese | 7439-96-5 | MG/KG | 3200 | 35000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 304 | 281 | -- | -- | -- | -- | -- | -- |
| 6020 | Nickel | 7440-02-0 | MG/KG | 1600 | 23000 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 28.6 | 21.3 | -- | -- | -- | -- | -- | -- |
| 6020 | Potassium | 9/7/7440 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 737 JH | 1160 JH | -- | -- | -- | -- | -- | -- |
| 6020 | Selenium | 7782-49-2 | MG/KG | 390 | 5700 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.15 | < 0.15 | -- | -- | -- | -- | -- | -- |
| 6020 | Silver | 7440-22-4 | MG/KG | 390 | 5700 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 | 0.074 | -- | -- | -- | -- | -- | -- |
| 6020 | Sodium | 7440-23-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 583 | 2260 | -- | -- | -- | -- | -- | -- |
| 6020 | Thallium | 7440-28-0 | MG/KG | 5.5 | 80 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.12 | 0.35 | -- | -- | -- | -- | -- | -- |
| 6020 | Vanadium | 7440-62-2 | MG/KG | 390 | 5700 | 300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17.6 | 33.3 | -- | -- | -- | -- | -- | -- |
| 6020 | Zinc | 7440-66-6 | MG/KG | 23000 | 100000 | 620 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 27.8 | 68.3 | -- | -- | -- | -- | -- | -- |
| 7471A | Mercury | 7439-97-6 | MG/KG | NA | NA | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.018 J | 0.091 J | -- | -- | -- | -- | -- | -- |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | MG/KG | 2.4 | 11 | 0.8 | < 0.014 J | < 0.066 J | < 0.68 J | < 0.014 J | < 0.13 J | < 0.014 J | 0.05 J | < 0.014 J | < 0.014 J | < 0.066 J | < 0.036 J | < 0.66 J | < 0.13 J | < 0.014 J | < 0.075 J | < 0.014 J | < 0.014 J |
| 8081A | 4,4'-DDE | 72-55-9 | MG/KG | 1.7 | 7.8 | 3 | < 0.006 J | < 0.029 J | < 0.3 J | < 0.006 J | < 0.057 J | < 0.0061 J | 0.12 J | < 0.0061 J | < 0.0062 J | < 0.029 J | < 0.016 J | < 0.29 J | 0.13 J | < 0.006 J | 0.037 J | < 0.0062 J | < 0.0062 J |
| 8081A | 4,4'-DDT | 50-29-3 | MG/KG | 1.7 | 7.8 | 2 | < 0.015 J | 0.17 J | < 0.74 J | < 0.015 J | 0.53 J | < 0.015 J | 0.36 J | < 0.015 J | < 0.015 J | 0.097 J | < 0.039 J | 1.2 J | 0.85 J | < 0.015 J | 0.36 J | < 0.015 J | < 0.015 J |
| 8081A | Aldrin | 309-00-2 | MG/KG | 0.029 | 0.11 | 0.02 | < 0.0063 J | < 0.03 J | < 0.31 J | < 0.0064 J | < 0.06 J | < 0.0065 J | **0.13 J** | 0.025 J | < 0.0066 J | < 0.03 J | < 0.016 J | **2.2 J** | < 0.06 J | < 0.0063 J | < 0.035 J | < 0.0065 J | < 0.0065 J |
| 8081A | alpha-BHC | 319-84-6 | MG/KG | 0.09 | 0.4 | 0.00003 | < 0.0054 J | < 0.026 J | < 0.27 J | < 0.0054 J | < 0.051 J | < 0.0055 J | < 0.0054 J | < 0.0055 J | < 0.0056 J | < 0.026 J | < 0.014 J | < 0.26 J | < 0.052 J | < 0.0054 J | < 0.03 J | < 0.0055 J | < 0.0056 J |
| 8081A | alpha-Chlordane | 5103-71-9 | MG/KG | NA | NA | NA | < 0.0081 J | < 0.039 J | < 0.4 J | < 0.0082 J | < 0.077 J | < 0.0083 J | < 0.0081 J | 0.03 J | < 0.0084 J | < 0.039 J | < 0.021 J | < 0.39 J | 0.66 J | < 0.0081 J | < 0.045 J | < 0.0084 J | < 0.0084 J |
| 8081A | beta-BHC | 319-85-7 | MG/KG | 0.32 | 1.4 | 0.0001 | < 0.0072 J | < 0.035 J | < 0.36 J | < 0.0073 J | **1.1 J** | < 0.0074 J | < 0.0072 J | 0.17 J | < 0.0075 J | < 0.034 J | < 0.019 J | < 0.34 J | **0.56 J** | < 0.0072 J | < 0.04 J | < 0.0074 J | < 0.0075 J |
| 8081A | Chlordane (technical) | 57-74-9 | MG/KG | 1.6 | 7.2 | 0.5 | < 0.2 J | < 0.95 J | < 9.7 J | < 0.2 J | < 1.9 J | < 0.2 J | < 0.2 J | < 0.2 J | < 0.2 J | < 0.94 J | < 0.51 J | < 9.4 J | < 1.9 J | < 0.2 J | < 1.1 J | < 0.2 J | < 0.2 J |
| 8081A | delta-BHC | 319-86-8 | MG/KG | NA | NA | NA | < 0.0042 J | < 0.02 J | < 0.21 J | < 0.0042 J | < 0.04 J | < 0.0043 J | < 0.0042 J | < 0.0043 J | 0.0088 J | < 0.02 J | < 0.011 J | < 0.2 J | < 0.04 J | < 0.0042 J | < 0.023 J | < 0.0043 J | < 0.0043 J |
| 8081A | Dieldrin | 60-57-1 | MG/KG | 0.03 | 0.12 | 0.0002 | **0.2 J** | 0.53 J | < 0.26 J | < 0.0053 J | < 0.05 J | 0.015 J | **0.45 J** | **0.47 J** | **0.05 J** | < 0.025 J | < 0.014 J | **1.8 J** | < 0.051 J | < 0.0053 J | < 0.029 J | < 0.0054 J | < 0.0055 J |
| 8081A | Endosulfan I | 959-98-8 | MG/KG | NA | NA | NA | < 0.0044 J | < 0.021 J | < 0.22 J | < 0.0045 J | < 0.042 J | < 0.0045 J | < 0.0044 J | < 0.0045 J | < 0.0046 J | < 0.021 J | < 0.012 J | < 0.21 J | < 0.042 J | < 0.0044 J | < 0.024 J | < 0.0046 J | < 0.0046 J |
| 8081A | Endosulfan II | 33213-65-9 | MG/KG | NA | NA | NA | < 0.0072 J | < 0.035 J | < 0.36 J | < 0.0073 J | < 0.068 J | < 0.0074 J | < 0.0072 J | < 0.0074 J | < 0.0075 J | < 0.035 J | < 0.019 J | < 0.35 J | < 0.069 J | < 0.0072 J | < 0.04 J | < 0.0074 J | < 0.0075 J |
| 8081A | Endosulfan sulfate | 1031-07-8 | MG/KG | NA | NA | NA | < 0.0069 J | < 0.034 J | < 0.34 J | < 0.007 J | < 0.066 J | < 0.0071 J | < 0.0069 J | < 0.0071 J | < 0.0072 J | < 0.033 J | < 0.018 J | < 0.33 J | < 0.066 J | < 0.0069 J | < 0.038 J | < 0.0072 J | < 0.0072 J |
| 8081A | Endrin | 72-20-8 | MG/KG | 18 | 210 | 0.05 | < 0.0077 J | < 0.037 J | < 0.38 J | < 0.0078 J | < 0.073 J | < 0.0079 J | < 0.0077 J | < 0.0079 J | < 0.008 J | < 0.037 J | < 0.02 J | < 0.37 J | < 0.074 J | < 0.0077 J | < 0.042 J | < 0.0079 J | < 0.008 J |
| 8081A | Endrin aldehyde | 7421-93-4 | MG/KG | NA | NA | NA | < 0.0054 J | < 0.026 J | < 0.27 J | < 0.0054 J | < 0.051 J | < 0.0055 J | < 0.0053 J | < 0.0055 J | < 0.0056 J | < 0.026 J | 0.017 J | < 0.26 J | < 0.051 J | < 0.0053 J | < 0.029 J | < 0.0055 J | < 0.0056 J |
| 8081A | Endrin ketone | 53494-70-5 | MG/KG | NA | NA | NA | < 0.0054 J | < 0.026 J | < 0.27 J | < 0.0054 J | < 0.051 J | < 0.0055 J | < 0.0053 J | < 0.0055 J | < 0.0056 J | < 0.026 J | < 0.014 J | < 0.26 J | < 0.051 J | < 0.0053 J | < 0.029 J | < 0.0055 J | < 0.0056 J |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | MG/KG | 0.44 | 1.9 | 0.0005 | **0.48 J** | < 0.017 J | < 0.18 J | < 0.0036 J | **1.2 J** | < 0.0037 J | < 0.0036 J | **0.27 J** | < 0.0037 J | < 0.017 J | < 0.0094 J | < 0.17 J | **45 J** | < 0.0036 J | **0.68 J** | < 0.0037 J | < 0.0037 J |
| 8081A | gamma-Chlordane | 5103-74-2 | MG/KG | NA | NA | NA | < 0.0067 J | < 0.032 J | < 0.33 J | < 0.0068 J | < 0.063 J | < 0.0069 J | < 0.0067 J | < 0.0069 J | < 0.007 J | < 0.032 J | < 0.017 J | < 0.32 J | < 0.064 J | < 0.0067 J | < 0.037 J | < 0.0069 J | < 0.0069 J |
| 8081A | Heptachlor | 76-44-8 | MG/KG | 0.11 | 0.43 | 1 | < 0.0054 J | < 0.026 J | < 0.27 J | < 0.0054 J | < 0.051 J | < 0.0055 J | < 0.0054 J | < 0.0055 J | < 0.0056 J | < 0.026 J | < 0.014 J | < 0.26 J | < 0.052 J | < 0.0054 J | **0.14 J** | < 0.0055 J | < 0.0056 J |
| 8081A | Heptachlor epoxide | 1024-57-3 | MG/KG | 0.053 | 0.21 | 0.03 | < 0.011 J | < 0.052 J | < 0.53 J | < 0.011 J | < 0.1 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.051 J | < 0.028 J | < 0.51 J | < 0.1 J | < 0.011 J | < 0.059 J | < 0.011 J | < 0.011 J |
| 8081A | Methoxychlor | 72-43-5 | MG/KG | 310 | 3400 | 8 | 0.033 J | 2.2 J | 25 J | < 0.011 J | 2.9 J | < 0.012 J | 0.039 J | 0.039 J | 0.51 J | < 0.054 J | 0.81 J | 29 J | < 0.11 J | < 0.011 J | < 0.062 J | < 0.012 J | < 0.012 J |
| 8081A | Toxaphene | 8001-35-2 | MG/KG | 0.44 | 1.7 | 2 | < 0.4 J | < 1.9 J | < 20 J | < 0.4 J | < 3.8 J | < 0.41 J | < 0.4 J | < 0.41 J | < 0.41 J | < 1.9 J | < 1 J | < 19 J | < 3.8 J | < 0.4 J | < 2.2 J | < 0.41 J | < 0.41 J |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | **260** | 5.4 | 0.057 | 0.012 J | **320** | 0.065 J | 22 | **110** | 1.8 | 3.1 | 0.0095 J | **160** | **130** | < 0.0024 | **520** | 0.99 | 0.057 J |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | MG/KG | 1400 | 1400 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0044 | < 13 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | MG/KG | 0.38 | 0.97 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.018 | < 18 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | MG/KG | 0.84 | 2.1 | 0.0009 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.003 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1-Dichloroethane | 75-34-3 | MG/KG | 850 | 2300 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0036 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,1-Dichloroethene | 75-35-4 | MG/KG | 280 | 470 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0049 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | MG/KG | 0.028 | 0.07 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0043 | < 16 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.66 | 16 J | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichloroethane | 107-06-2 | MG/KG | 0.35 | 0.84 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.0068 J | < 16 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0068 | < 27 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2-Dichloropropane | 78-87-5 | MG/KG | 0.35 | 0.85 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0039 | < 16 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0049 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0064 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Butanone (MEK) | 78-93-3 | MG/KG | 32000 | 34000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | < 28 J | -- | -- | -- | -- | -- | -- |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-15(4-6') 3/28/2008 | DPT-16(2-4') 3/28/2008 | DPT-16(6-8') 3/28/2008 | DPT-17/TW-5(12-14') 3/28/2008 | DPT-17/TW-5(2-4') 3/28/2008 | DPT-18(14-16') 3/28/2008 | DPT-18(2-4') 3/28/2008 | DPT-18(4-6') 3/28/2008 | DPT-19(2-4') 3/28/2008 | DPT-2 (0-4') 3/26/2008 | DPT-2 (12-16') 3/26/2008 | DPT-20(2-4') 3/28/2008 | DPT-21(2-4') 3/28/2008 | DPT-21(8-10') 3/28/2008 | DPT-22(2-4') 3/28/2008 | DPT-22(8-10') 3/28/2008 | DPT-23(14-16') 3/28/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0032 | < 17 | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Hexanone | 591-78-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.017 | < 17 | -- | -- | -- | -- | -- | -- |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | MG/KG | 5800 | 17000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.11 | < 18 | -- | -- | -- | -- | -- | -- |
| 8260B | Acetone | 67-64-1 | MG/KG | 14000 | 60000 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 J | < 29 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene | 71-43-2 | MG/KG | 0.66 | 1.6 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0038 | < 16 | -- | -- | -- | -- | -- | -- |
| 8260B | Bromobenzene | 108-86-1 | MG/KG | 73 | 120 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0034 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | Bromochloromethane | 74-97-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0046 | < 13 | -- | -- | -- | -- | -- | -- |
| 8260B | Bromodichloromethane | 75-27-4 | MG/KG | 1 | 2.6 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0036 | < 17 | -- | -- | -- | -- | -- | -- |
| 8260B | Bromoform | 75-25-2 | MG/KG | 62 | 240 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0064 | < 24 | -- | -- | -- | -- | -- | -- |
| 8260B | Bromomethane | 74-83-9 | MG/KG | 3.9 | 15 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0038 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Carbon disulfide | 75-15-0 | MG/KG | 720 | 720 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0047 | < 13 | -- | -- | -- | -- | -- | -- |
| 8260B | Carbon tetrachloride | 56-23-5 | MG/KG | 0.24 | 0.58 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0065 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Chlorobenzene | 108-90-7 | MG/KG | 270 | 500 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0033 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Chloroethane | 75-00-3 | MG/KG | 3 | 7.2 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.004 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Chloroform | 67-66-3 | MG/KG | 0.25 | 0.58 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.021 J | < 13 | -- | -- | -- | -- | -- | -- |
| 8260B | Chloromethane | 74-87-3 | MG/KG | 1.3 | 3 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0036 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | MG/KG | 43 | 160 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0036 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0033 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | Dibromochloromethane | 124-48-1 | MG/KG | 1 | 2.6 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0037 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Dibromomethane | 74-95-3 | MG/KG | 140 | 590 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0051 | < 16 | -- | -- | -- | -- | -- | -- |
| 8260B | Ethylbenzene | 100-41-4 | MG/KG | 230 | 230 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Methylene chloride | 75-09-2 | MG/KG | 8.9 | 22 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.015 J | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.47 | < 26 | -- | -- | -- | -- | -- | -- |
| 8260B | o-Xylene | 95-47-6 | MG/KG | 280 | 280 | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Styrene | 100-42-5 | MG/KG | 1700 | 1700 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.003 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Tetrachloroethene | 127-18-4 | MG/KG | 0.55 | 1.7 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.009 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | Toluene | 108-88-3 | MG/KG | 520 | 520 | 0.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 | 360 | -- | -- | -- | -- | -- | -- |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | MG/KG | 120 | 200 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.004 | < 13 | -- | -- | -- | -- | -- | -- |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0037 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Trichloroethene | 79-01-6 | MG/KG | 0.043 | 0.1 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0054 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Trichlorofluoromethane | 75-69-4 | MG/KG | 390 | 1400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0059 | < 14 | -- | -- | -- | -- | -- | -- |
| 8260B | Vinyl acetate | 108-05-4 | MG/KG | 430 | 1600 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0061 | < 21 | -- | -- | -- | -- | -- | -- |
| 8260B | Vinyl chloride | 75-01-4 | MG/KG | 0.043 | 0.86 | 0.0007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.0044 | < 15 | -- | -- | -- | -- | -- | -- |
| 8260B | Xylenes (total) | 1330-20-7 | MG/KG | 210 | 210 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.74 | < 39 | -- | -- | -- | -- | -- | -- |
| | **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | MG/KG | 140 | 260 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.27 | < 0.059 | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 J | 8.5 J | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.045 | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.18 | 0.11 J | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | MG/KG | 6100 | 68000 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.045 | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | MG/KG | 44 | 170 | 0.008 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.058 | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | MG/KG | 180 | 2100 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.057 | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | MG/KG | 1200 | 14000 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.47 | < 0.1 | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | MG/KG | 120 | 1400 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1.1 | < 0.24 | -- | -- | -- | -- | -- | -- |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | MG/KG | 120 | 1400 | 0.00004 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.95 | < 0.21 | -- | -- | -- | -- | -- | -- |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | MG/KG | 61 | 680 | 0.00003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.25 | < 0.054 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chloronaphthalene | 91-58-7 | MG/KG | 3900 | 26000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.041 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chlorophenol | 95-57-8 | MG/KG | 64 | 260 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.18 | < 0.038 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Methylnaphthalene | 91-57-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.042 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Methylphenol | 95-48-7 | MG/KG | 3100 | 34000 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.24 | 0.56 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Nitroaniline | 88-74-4 | MG/KG | 180 | 2000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.056 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Nitrophenol | 88-75-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.38 | < 0.083 | -- | -- | -- | -- | -- | -- |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | MG/KG | 1.1 | 4.3 | 0.0003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.031 | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 260 | 74 | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | MG/KG | 310 | 3400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.39 | 0.54 | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Nitroaniline | 99-09-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.042 | -- | -- | -- | -- | -- | -- |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.85 | < 0.19 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.18 | < 0.04 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.32 | < 0.069 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Chloroaniline | 106-47-8 | MG/KG | 240 | 2700 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.23 | 2.3 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.034 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Nitroaniline | 100-01-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.6 | < 0.13 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Nitrophenol | 100-02-7 | MG/KG | 490 | 5500 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.91 | < 0.2 | -- | -- | -- | -- | -- | -- |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-15(4-6') 3/28/2008 | DPT-16(2-4') 3/28/2008 | DPT-16(6-8') 3/28/2008 | DPT-17/TW-5(12-14') 3/28/2008 | DPT-17/TW-5(2-4') 3/28/2008 | DPT-18(14-16') 3/28/2008 | DPT-18(2-4') 3/28/2008 | DPT-18(4-6') 3/28/2008 | DPT-19(2-4') 3/28/2008 | DPT-2 (0-4') 3/26/2008 | DPT-2 (12-16') 3/26/2008 | DPT-20(2-4') 3/28/2008 | DPT-21(2-4') 3/28/2008 | DPT-21(8-10') 3/28/2008 | DPT-22(2-4') 3/28/2008 | DPT-22(8-10') 3/28/2008 | DPT-23(14-16') 3/28/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Acenaphthene | 83-32-9 | MG/KG | 3700 | 33000 | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.046 | -- | -- | -- | -- | -- | -- |
| 8270C | Acenaphthylene | 208-96-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.043 | -- | -- | -- | -- | -- | -- |
| 8270C | Aniline | 62-53-3 | MG/KG | 85 | 340 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.041 | -- | -- | -- | -- | -- | -- |
| 8270C | Anthracene | 120-12-7 | MG/KG | 22000 | 100000 | 590 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.032 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(a)anthracene | 56-55-3 | MG/KG | 0.15 | 2.3 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.12 | < 0.026 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(a)pyrene | 50-32-8 | MG/KG | 0.015 | 0.23 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.03 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | MG/KG | 0.15 | 2.3 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.31 | < 0.068 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(ghi)perylene | 191-24-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.035 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | MG/KG | 1.5 | 23 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.24 | < 0.052 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid | 65-85-0 | MG/KG | 100000 | 100000 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.7 | < 0.15 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzyl alcohol | 100-51-6 | MG/KG | 18000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.5 | < 0.11 | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.043 | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | MG/KG | 0.21 | 0.62 | 0.00002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.045 | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | MG/KG | 2.9 | 8.2 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.036 | -- | -- | -- | -- | -- | -- |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | MG/KG | 35 | 140 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.43 J | 0.15 J | -- | -- | -- | -- | -- | -- |
| 8270C | Butyl benzyl phthalate | 85-68-7 | MG/KG | 240 | 240 | 810 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.034 | -- | -- | -- | -- | -- | -- |
| 8270C | Chrysene | 218-01-9 | MG/KG | 15 | 230 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.03 | -- | -- | -- | -- | -- | -- |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | MG/KG | 0.015 | 0.23 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.51 | < 0.11 | -- | -- | -- | -- | -- | -- |
| 8270C | Dibenzofuran | 132-64-9 | MG/KG | 150 | 1700 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.22 | < 0.047 | -- | -- | -- | -- | -- | -- |
| 8270C | Diethyl phthalate | 84-66-2 | MG/KG | 49000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.13 | < 0.028 | -- | -- | -- | -- | -- | -- |
| 8270C | Dimethyl phthalate | 131-11-3 | MG/KG | 100000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.031 | -- | -- | -- | -- | -- | -- |
| 8270C | Di-n-butyl phthalate | 84-74-2 | MG/KG | 6100 | 68000 | 270 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.032 | -- | -- | -- | -- | -- | -- |
| 8270C | Di-n-octyl phthalate | 117-84-0 | MG/KG | NA | NA | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 J | < 0.16 | -- | -- | -- | -- | -- | -- |
| 8270C | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 | < 0.017 | -- | -- | -- | -- | -- | -- |
| 8270C | Fluoranthene | 206-44-0 | MG/KG | 2300 | 24000 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.032 | -- | -- | -- | -- | -- | -- |
| 8270C | Fluorene | 86-73-7 | MG/KG | 2600 | 26000 | 28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.03 | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachlorobenzene | 118-74-1 | MG/KG | 0.3 | 1.2 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.23 J | < 0.037 | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachlorobutadiene | 87-68-3 | MG/KG | 6.2 | 25 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.24 | < 0.053 | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | MG/KG | 370 | 4100 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1 | < 0.22 | -- | -- | -- | -- | -- | -- |
| 8270C | Hexachloroethane | 67-72-1 | MG/KG | 35 | 140 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.056 | -- | -- | -- | -- | -- | -- |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | MG/KG | 0.15 | 2.3 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.31 | < 0.068 | -- | -- | -- | -- | -- | -- |
| 8270C | Isophorone | 78-59-1 | MG/KG | 510 | 2000 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.9 J | 2.2 | -- | -- | -- | -- | -- | -- |
| 8270C | Naphthalene | 91-20-3 | MG/KG | 120 | 210 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.042 | -- | -- | -- | -- | -- | -- |
| 8270C | Nitrobenzene | 98-95-3 | MG/KG | 20 | 110 | 0.007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.3 | < 0.064 | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | MG/KG | 0.07 | 0.27 | 0.000002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.032 | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | MG/KG | 99 | 390 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.03 | -- | -- | -- | -- | -- | -- |
| 8270C | Pentachlorophenol | 87-86-5 | MG/KG | 3 | 10 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.3 | < 0.066 | -- | -- | -- | -- | -- | -- |
| 8270C | Phenanthrene | 85-01-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.13 | < 0.029 | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol | 108-95-2 | MG/KG | 18000 | 100000 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.043 | -- | -- | -- | -- | -- | -- |
| 8270C | Propanil | 709-98-8 | MG/KG | 310 | 3400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 240 | 21 | -- | -- | -- | -- | -- | -- |
| 8270C | Pyrene | 129-00-0 | MG/KG | 2300 | 32000 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.031 | -- | -- | -- | -- | -- | -- |

Notes:

| | |
|---|---|
| | Exceeds the DAF1 MSSL Standard |
| | Exceeds the Industrial Outdoor Worker MSSL Standard |
| **Bold** | Exceeds the Residential Soil MSSL Standard |
| -- | No data available for reported analyte |
| | The analyte was not detected at the concentration given. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| JH | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a high bias. |
| JL | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a low bias. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration |
| UB | Not detected substantially above the concentration reported in the laboratory or field blanks. For organics - 5X (10X for common laboratory contaminants) or for metals 10X. Data point considered non-detect at the reported value. |
| UBJ | Not detected substantially above the concentration reported in the laboratory or field blanks. Data point considered non-detect and the reported value is an approximate. |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-23(2-4') 3/28/2008 | DPT-24(2-4') 3/29/2008 | DPT-24(8-10') 3/29/2008 | DPT-25(2-4') 3/29/2008 | DPT-25(6-8') 3/29/2008 | DPT-26(2-4') 3/29/2008 | DPT-26(4-6') 3/29/2008 | DPT-27(0-2') 3/29/2008 | DPT-27(8-10') 3/29/2008 | DPT-28(8-12') 3/29/2008 | DPT-29(4-8') 3/29/2008 | DPT-3 (0-4') 3/26/2008 | DPT-3 (16-20') 3/26/2008 | DPT-30(0-4') 3/29/2008 | DPT-31(8-12') 3/29/2008 | DPT-32(12-16') 3/29/2008 | DPT-33 TW-7(8-12') 3/29/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | MG/KG | 76000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12200 | 15500 | 15700 | 7370 | 11700 | 13800 | 13800 | 13400 |
| 6020 | Antimony | 7440-36-0 | MG/KG | 31 | 450 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 | 0.18 | 0.24 | 0.24 | 0.37 | 0.32 | 0.32 | 0.23 |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 0.39 | 1.8 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | **9.3** | **8.1** | **78.7** | **8.3** | **32.3** | **8.4** | **9.6** | **6.7** |
| 6020 | Barium | 7440-39-3 | MG/KG | 16000 | 100000 | 82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 230 | 214 | 118 | 98.5 | 123 | 214 | 220 | 263 |
| 6020 | Beryllium | 7440-41-7 | MG/KG | 150 | 2200 | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.45 | 0.64 | 0.54 | 0.44 | 0.47 | 0.6 | 0.6 | 0.56 |
| 6020 | Cadmium | 7440-43-9 | MG/KG | 39 | 560 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.12 | 0.22 | 0.081 | 0.25 | 0.35 | 0.27 | 0.31 | 0.19 |
| 6020 | Calcium | 7440-70-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3310 | 1970 | 2700 | 2620 | 20100 | 1970 | 2770 | 2090 |
| 6020 | Chromium | 7440-47-3 | MG/KG | 210 | 500 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17.3 JH | 17.3 | 17.1 JH | 12.5 JH | 28.3 | 16.2 | 16.9 | 15.8 |
| 6020 | Cobalt | 7440-48-4 | MG/KG | 900 | 2100 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.7 | 9.1 | 8.2 | 7.6 | 6.7 | 8 | 8.6 | 7.5 |
| 6020 | Copper | 7440-50-8 | MG/KG | 2900 | 42000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17.1 | 16 | 15 | 13.5 | 12.8 | 14.4 | 15.1 | 12.8 |
| 6020 | Iron | 7439-89-6 | MG/KG | 55000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 22700 | 21600 | 20600 | 16600 | 16900 | 19300 | 22100 | 18400 |
| 6020 | Lead | 7439-92-1 | MG/KG | 400 | 800 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12.1 | 12.7 | 10.4 | 10.3 | 10.2 | 11.7 | 11.9 | 10.4 |
| 6020 | Magnesium | 7439-95-4 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2450 | 3110 | 2240 | 2450 | 7030 | 2940 | 3150 | 2670 |
| 6020 | Manganese | 7439-96-5 | MG/KG | 3200 | 35000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 529 | 883 | 616 | 503 | 420 | 870 | 845 | 712 |
| 6020 | Nickel | 7440-02-0 | MG/KG | 1600 | 23000 | 7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 18.7 JH | 20.7 | 19.1 | 19.7 | 18 | 19 | 20.5 | 17.8 |
| 6020 | Potassium | 9/7/7440 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1310 | 1650 JH | 1230 JH | 1000 JH | 1480 JH | 1630 JH | 1750 JH | 1460 JH |
| 6020 | Selenium | 7782-49-2 | MG/KG | 390 | 5700 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.14 | 0.35 | < 0.14 | < 0.15 | 0.34 | 0.32 | 0.2 | 0.15 |
| 6020 | Silver | 7440-22-4 | MG/KG | 390 | 5700 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.022 | < 0.024 | 0.12 | < 0.024 | < 0.021 | 0.026 | < 0.022 | < 0.019 |
| 6020 | Sodium | 7440-23-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3620 | 128 | 174 | 183 | 145 | 228 | 150 | 269 |
| 6020 | Thallium | 7440-28-0 | MG/KG | 5.5 | 80 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.35 | 0.37 | 0.27 | 0.25 | 0.26 | 0.35 | 0.37 | 0.31 |
| 6020 | Vanadium | 7440-62-2 | MG/KG | 390 | 5700 | 300 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 35.1 | 38.1 | 30.5 | 24.4 | 30.5 | 35.8 | 38.3 | 33.8 |
| 6020 | Zinc | 7440-66-6 | MG/KG | 23000 | 100000 | 620 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 74.5 | 70.9 | 51.7 | 49.2 | 66.2 | 68.8 | 67.3 | 60.5 |
| 7471A | Mercury | 7439-97-6 | MG/KG | NA | NA | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.013 J | 0.03 J | 0.017 J | 0.021 J | 0.028 J | 0.036 J | 0.023 J | 0.034 J |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | MG/KG | 2.4 | 11 | 0.8 | < 0.7 J | < 0.013 J | < 0.014 J | < 0.13 J | < 0.014 J | < 0.25 J | < 0.032 J | < 0.14 J | < 0.014 J | < 0.073 J | < 0.014 J | < 0.033 J | < 0.036 J | < 0.67 J | < 0.018 J | < 0.014 J | < 0.014 J |
| 8081A | 4,4'-DDE | 72-55-9 | MG/KG | 1.7 | 7.8 | 3 | < 0.3 J | < 0.0057 J | < 0.0061 J | < 0.057 J | < 0.0059 J | < 0.11 J | 0.054 J | 0.077 J | < 0.006 J | < 0.032 J | < 0.0061 J | < 0.015 J | < 0.016 J | < 0.29 J | < 0.0076 J | < 0.0061 J | < 0.0061 J |
| 8081A | 4,4'-DDT | 50-29-3 | MG/KG | 1.7 | 7.8 | 2 | 1.6 J | < 0.014 J | < 0.015 J | 0.19 J | < 0.015 J | < 0.27 J | 0.35 J | < 0.15 J | < 0.015 J | < 0.078 J | < 0.015 J | < 0.036 J | < 0.039 J | < 0.73 J | < 0.019 J | < 0.015 J | < 0.015 J |
| 8081A | Aldrin | 309-00-2 | MG/KG | 0.029 | 0.11 | 0.02 | < 0.32 J | < 0.006 J | < 0.0065 J | **0.28 J** | < 0.0063 J | **1 J** | < 0.015 J | < 0.066 J | < 0.0063 J | < 0.033 J | < 0.0065 J | < 0.015 J | < 0.017 J | < 0.31 J | < 0.008 J | < 0.0064 J | < 0.0065 J |
| 8081A | alpha-BHC | 319-84-6 | MG/KG | 0.09 | 0.4 | 0.00003 | < 0.27 J | < 0.0052 J | < 0.0055 J | < 0.051 J | < 0.0053 J | < 0.099 J | < 0.013 J | < 0.056 J | < 0.0054 J | < 0.028 J | < 0.0055 J | < 0.013 J | < 0.014 J | < 0.26 J | < 0.0069 J | < 0.0055 J | < 0.0055 J |
| 8081A | alpha-Chlordane | 5103-71-9 | MG/KG | NA | NA | NA | 2.8 J | < 0.0078 J | < 0.0083 J | < 0.077 J | < 0.0081 J | < 0.15 J | < 0.019 J | < 0.084 J | < 0.0082 J | < 0.043 J | < 0.0083 J | < 0.02 J | < 0.022 J | 2.2 J | < 0.01 J | < 0.0082 J | < 0.0083 J |
| 8081A | beta-BHC | 319-85-7 | MG/KG | 0.32 | 1.4 | 0.0001 | **2.8 J** | < 0.0069 J | < 0.0074 J | < 0.068 J | < 0.0071 J | < 0.13 J | < 0.017 J | < 0.075 J | < 0.0072 J | < 0.038 J | < 0.0074 J | < 0.017 J | < 0.019 J | < 0.35 J | < 0.0092 J | < 0.0073 J | < 0.0074 J |
| 8081A | Chlordane (technical) | 57-74-9 | MG/KG | 1.6 | 7.2 | 0.5 | < 10 J | < 0.19 J | < 0.2 J | < 1.9 J | < 0.19 J | < 3.6 J | < 0.46 J | < 2 J | < 0.2 J | < 1 J | < 0.2 J | < 0.48 J | < 0.52 J | **23 J** | < 0.25 J | < 0.2 J | < 0.2 J |
| 8081A | delta-BHC | 319-86-8 | MG/KG | NA | NA | NA | < 0.21 J | < 0.004 J | < 0.0043 J | < 0.04 J | < 0.0041 J | < 0.077 J | < 0.0097 J | < 0.043 J | < 0.0042 J | < 0.022 J | < 0.0043 J | < 0.01 J | < 0.011 J | < 0.2 J | < 0.0053 J | < 0.0042 J | < 0.0043 J |
| 8081A | Dieldrin | 60-57-1 | MG/KG | 0.03 | 0.12 | 0.0002 | < 0.27 J | **0.052 J** | < 0.0054 J | **4.9 J** | 0.013 J | **15 J** | **0.84 J** | **8.2 J** | < 0.0053 J | < 0.028 J | < 0.0054 J | < 0.013 J | < 0.014 J | < 0.26 J | < 0.0067 J | < 0.0054 J | < 0.0054 J |
| 8081A | Endosulfan I | 959-98-8 | MG/KG | NA | NA | NA | < 0.23 J | < 0.0042 J | < 0.0045 J | < 0.042 J | < 0.0044 J | < 0.081 J | < 0.01 J | < 0.046 J | < 0.0044 J | < 0.023 J | < 0.0045 J | < 0.011 J | < 0.012 J | < 0.22 J | < 0.0056 J | < 0.0045 J | < 0.0045 J |
| 8081A | Endosulfan II | 33213-65-9 | MG/KG | NA | NA | NA | < 0.37 J | < 0.0069 J | < 0.0074 J | < 0.068 J | < 0.0072 J | < 0.13 J | < 0.017 J | < 0.075 J | < 0.0072 J | < 0.038 J | < 0.0074 J | < 0.018 J | < 0.019 J | < 0.35 J | < 0.0092 J | < 0.0073 J | < 0.0074 J |
| 8081A | Endosulfan sulfate | 1031-07-8 | MG/KG | NA | NA | NA | < 0.35 J | < 0.0066 J | < 0.0071 J | < 0.066 J | < 0.0069 J | < 0.13 J | < 0.016 J | < 0.072 J | < 0.007 J | < 0.037 J | < 0.0071 J | < 0.017 J | < 0.018 J | < 0.34 J | < 0.0088 J | < 0.007 J | < 0.0071 J |
| 8081A | Endrin | 72-20-8 | MG/KG | 18 | 210 | 0.05 | < 0.39 J | < 0.0074 J | < 0.0079 J | 0.083 J | < 0.0076 J | 0.18 J | 0.023 J | < 0.08 J | < 0.0077 J | < 0.041 J | < 0.0079 J | < 0.019 J | < 0.02 J | < 0.38 J | < 0.0098 J | < 0.0078 J | < 0.0079 J |
| 8081A | Endrin aldehyde | 7421-93-4 | MG/KG | NA | NA | NA | < 0.27 J | < 0.0051 J | < 0.0055 J | 0.18 J | < 0.0053 J | < 0.099 J | 0.19 J | 0.3 J | < 0.0054 J | < 0.028 J | < 0.0055 J | < 0.013 J | < 0.014 J | < 0.26 J | < 0.0068 J | < 0.0054 J | < 0.0055 J |
| 8081A | Endrin ketone | 53494-70-5 | MG/KG | NA | NA | NA | < 0.27 J | < 0.0051 J | < 0.0055 J | 0.25 J | < 0.0053 J | 0.26 J | < 0.012 J | 0.13 J | < 0.0054 J | < 0.028 J | < 0.0055 J | < 0.013 J | < 0.014 J | < 0.26 J | < 0.0068 J | < 0.0054 J | < 0.0055 J |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | MG/KG | 0.44 | 1.9 | 0.0005 | **0.95 J** | < 0.0034 J | < 0.0037 J | < 0.034 J | < 0.0036 J | < 0.066 J | < 0.0084 J | < 0.037 J | < 0.0036 J | < 0.019 J | < 0.0037 J | < 0.0087 J | < 0.0096 J | < 0.18 J | < 0.0046 J | < 0.0036 J | < 0.0037 J |
| 8081A | gamma-Chlordane | 5103-74-2 | MG/KG | NA | NA | NA | < 0.34 J | < 0.0064 J | < 0.0069 J | < 0.063 J | < 0.0066 J | < 0.12 J | < 0.016 J | < 0.07 J | < 0.0067 J | < 0.035 J | < 0.0069 J | < 0.016 J | < 0.018 J | 2.9 J | < 0.0085 J | < 0.0068 J | < 0.0068 J |
| 8081A | Heptachlor | 76-44-8 | MG/KG | 0.11 | 0.43 | 1 | < 0.27 J | < 0.0052 J | < 0.0055 J | < 0.051 J | < 0.0053 J | < 0.099 J | < 0.013 J | < 0.056 J | < 0.0054 J | < 0.028 J | < 0.0055 J | < 0.013 J | < 0.014 J | < 0.26 J | < 0.0069 J | < 0.0055 J | < 0.0055 J |
| 8081A | Heptachlor epoxide | 1024-57-3 | MG/KG | 0.053 | 0.21 | 0.03 | < 0.54 J | < 0.01 J | < 0.011 J | < 0.1 J | < 0.011 J | < 0.2 J | < 0.025 J | < 0.11 J | < 0.011 J | < 0.057 J | < 0.011 J | < 0.026 J | < 0.028 J | < 0.53 J | < 0.014 J | < 0.011 J | < 0.011 J |
| 8081A | Methoxychlor | 72-43-5 | MG/KG | 310 | 3400 | 8 | 1.3 J | 0.2 J | < 0.012 J | 5.2 J | 0.026 J | 8.1 J | 0.97 J | 0.56 J | < 0.011 J | < 0.06 J | < 0.012 J | < 0.028 J | < 0.03 J | 21 J | < 0.014 J | < 0.011 J | < 0.012 J |
| 8081A | Toxaphene | 8001-35-2 | MG/KG | 0.44 | 1.7 | 2 | < 20 J | < 0.38 J | < 0.41 J | < 3.8 J | < 0.39 J | < 7.3 J | < 0.93 J | < 4.1 J | < 0.4 J | < 2.1 J | < 0.41 J | < 0.97 J | < 1.1 J | < 20 J | < 0.51 J | < 0.4 J | < 0.41 J |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | **600** | 0.0048 J | < 0.0024 | **260** | 0.038 | **120** | **500** | **950** | 0.17 | **73** | 0.0082 J | < 0.0023 | < 0.0025 | 2 | 0.017 | 0.045 | 0.0085 J |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | MG/KG | 1400 | 1400 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.53 J | < 0.00098 | < 0.0047 | < 0.13 | < 0.0019 | < 0.00098 | < 0.00097 | < 0.00099 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | MG/KG | 0.38 | 0.97 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.74 J | < 0.0041 | < 0.019 | < 0.18 | < 0.0079 | < 0.004 | < 0.004 | < 0.0041 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | MG/KG | 0.84 | 2.1 | 0.0009 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.59 J | < 0.00067 | < 0.0032 | < 0.15 | < 0.0013 | < 0.00067 | < 0.00066 | < 0.00067 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | MG/KG | 850 | 2300 | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.57 J | < 0.0008 | < 0.0038 | < 0.14 | < 0.0015 | < 0.00079 | < 0.00079 | < 0.0008 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | MG/KG | 280 | 470 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.59 J | < 0.0011 | < 0.0052 | < 0.15 | < 0.0021 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | MG/KG | 0.028 | 0.07 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.65 J | < 0.00097 | < 0.0046 | < 0.16 | < 0.0019 | < 0.00096 | < 0.00095 | < 0.00097 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.6 J | 0.022 | 0.057 | 0.33 | 0.37 | 0.016 | < 0.0022 | 0.014 |
| 8260B | 1,2-Dichloroethane | 107-06-2 | MG/KG | 0.35 | 0.84 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.63 J | < 0.00098 | 0.03 | < 0.16 | < 0.0019 | 0.0065 | < 0.00097 | 0.0026 J |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1.1 J | < 0.0015 | 0.012 J | < 0.27 | < 0.003 | < 0.0015 | < 0.0015 | < 0.0015 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | MG/KG | 0.35 | 0.85 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.67 J | < 0.00087 | < 0.0041 | < 0.17 | < 0.0017 | < 0.00086 | < 0.00086 | < 0.00088 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.55 J | < 0.0011 | 0.041 | 0.19 J | < 0.0021 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.57 J | < 0.0014 | 0.043 | 0.23 J | 0.0044 J | < 0.0014 | < 0.0014 | < 0.0014 |
| 8260B | 2-Butanone (MEK) | 78-93-3 | MG/KG | 32000 | 34000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 33 J | 0.0079 J | 0.016 J | < 0.29 J | 0.02 J | 0.016 | 0.071 | 0.054 |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-23(2-4') 3/28/2008 | DPT-24(2-4') 3/29/2008 | DPT-24(8-10') 3/29/2008 | DPT-25(2-4') 3/29/2008 | DPT-25(6-8') 3/29/2008 | DPT-26(2-4') 3/29/2008 | DPT-26(4-6') 3/29/2008 | DPT-27(0-2') 3/29/2008 | DPT-27(8-10') 3/29/2008 | DPT-28(8-12') 3/29/2008 | DPT-29(4-8') 3/29/2008 | DPT-3 (0-4') 3/26/2008 | DPT-3 (16-20') 3/26/2008 | DPT-30(0-4') 3/29/2008 | DPT-31(8-12') 3/29/2008 | DPT-32(12-16') 3/29/2008 | DPT-33 TW-7(8-12') 3/29/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.67 J | < 0.00072 | < 0.0034 | < 0.17 | < 0.0014 | < 0.00072 | < 0.00071 | < 0.00072 |
| 8260B | 2-Hexanone | 591-78-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.69 J | < 0.0038 | < 0.018 | < 0.17 | < 0.0074 | < 0.0038 | < 0.0037 | < 0.0038 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | MG/KG | 5800 | 17000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.74 J | < 0.0022 | < 0.01 | < 0.19 | < 0.0042 | 0.56 | 0.92 | 0.9 |
| 8260B | Acetone | 67-64-1 | MG/KG | 14000 | 60000 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 J | 0.064 UB | 0.30 UB | < 0.3 | 0.12 UB | 11 | 87 | 100 |
| 8260B | Benzene | 71-43-2 | MG/KG | 0.66 | 1.6 | 0.002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.63 J | < 0.00086 | < 0.0041 | < 0.16 | < 0.0017 | < 0.00085 | < 0.00084 | < 0.00086 |
| 8260B | Bromobenzene | 108-86-1 | MG/KG | 73 | 120 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.6 J | < 0.00075 | < 0.0035 | < 0.15 | < 0.0015 | < 0.00074 | < 0.00074 | < 0.00075 |
| 8260B | Bromochloromethane | 74-97-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.53 J | < 0.001 | < 0.0048 | < 0.13 | < 0.002 | < 0.001 | < 0.001 | < 0.001 |
| 8260B | Bromodichloromethane | 75-27-4 | MG/KG | 1 | 2.6 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.68 J | < 0.00079 | < 0.0038 | < 0.17 | < 0.0015 | < 0.00079 | < 0.00078 | < 0.0008 |
| 8260B | Bromoform | 75-25-2 | MG/KG | 62 | 240 | 0.04 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.98 J | < 0.0014 | < 0.0068 | < 0.25 | < 0.0028 | < 0.0014 | < 0.0014 | < 0.0014 |
| 8260B | Bromomethane | 74-83-9 | MG/KG | 3.9 | 15 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.57 J | < 0.00084 | < 0.004 | < 0.14 | < 0.0016 | < 0.00083 | < 0.00083 | < 0.00084 |
| 8260B | Carbon disulfide | 75-15-0 | MG/KG | 720 | 720 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.54 J | < 0.0011 | < 0.005 | < 0.13 | < 0.002 | < 0.001 | < 0.001 | < 0.0011 |
| 8260B | Carbon tetrachloride | 56-23-5 | MG/KG | 0.24 | 0.58 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.58 J | < 0.0015 | < 0.0069 | < 0.15 | < 0.0028 | < 0.0014 | < 0.0014 | < 0.0015 |
| 8260B | Chlorobenzene | 108-90-7 | MG/KG | 270 | 500 | 0.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.56 J | < 0.00074 | 0.012 J | < 0.14 | < 0.0014 | < 0.00074 | < 0.00073 | < 0.00075 |
| 8260B | Chloroethane | 75-00-3 | MG/KG | 3 | 7.2 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.57 J | < 0.00089 | < 0.0042 | < 0.14 | < 0.0017 | < 0.00088 | < 0.00088 | < 0.0009 |
| 8260B | Chloroform | 67-66-3 | MG/KG | 0.25 | 0.58 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.53 J | < 0.00093 | < 0.0044 | < 0.13 | < 0.0018 | < 0.00093 | < 0.00092 | < 0.00094 |
| 8260B | Chloromethane | 74-87-3 | MG/KG | 1.3 | 3 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.61 J | < 0.00079 | < 0.0038 | < 0.15 | < 0.0015 | < 0.00079 | < 0.00078 | < 0.0008 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | MG/KG | 43 | 160 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.55 J | < 0.00081 | 0.012 J | < 0.14 | < 0.0016 | < 0.00081 | < 0.0008 | < 0.00082 |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.62 J | < 0.00074 | < 0.0035 | < 0.15 | < 0.0014 | < 0.00074 | < 0.00073 | < 0.00075 |
| 8260B | Dibromochloromethane | 124-48-1 | MG/KG | 1 | 2.6 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.57 J | < 0.00083 | < 0.004 | < 0.14 | < 0.0016 | < 0.00083 | < 0.00082 | < 0.00084 |
| 8260B | Dibromomethane | 74-95-3 | MG/KG | 140 | 590 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.65 J | < 0.0011 | < 0.0054 | < 0.16 | < 0.0022 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | Ethylbenzene | 100-41-4 | MG/KG | 230 | 230 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.58 J | < 0.0011 | 0.008 J | < 0.14 | 0.097 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | Methylene chloride | 75-09-2 | MG/KG | 8.9 | 22 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.59 J | 0.011 | < 0.0055 | < 0.15 | 0.012 | 0.015 | 0.0068 | 0.013 |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1.1 J | < 0.002 | 0.014 J | < 0.26 | 0.34 | 0.0027 J | < 0.002 | < 0.002 |
| 8260B | o-Xylene | 95-47-6 | MG/KG | 280 | 280 | 9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.55 J | < 0.00073 | < 0.0035 | < 0.14 | 0.11 | 0.0019 J | < 0.00072 | < 0.00073 |
| 8260B | Styrene | 100-42-5 | MG/KG | 1700 | 1700 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.56 J | < 0.00068 | < 0.0032 | < 0.14 | < 0.0013 | < 0.00067 | < 0.00067 | < 0.00068 |
| 8260B | Tetrachloroethene | 127-18-4 | MG/KG | 0.55 | 1.7 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.61 J | < 0.002 | 0.46 | **2.5** | < 0.0039 | < 0.002 | < 0.002 | < 0.002 |
| 8260B | Toluene | 108-88-3 | MG/KG | 520 | 520 | 0.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.53 J | 0.0033 J | 0.0095 J | < 0.13 | 0.072 | 0.0051 J | < 0.001 | 0.006 J |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | MG/KG | 120 | 200 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.54 J | < 0.00088 | < 0.0042 | < 0.14 | < 0.0017 | < 0.00088 | < 0.00087 | < 0.00089 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.56 J | < 0.00081 | < 0.0039 | < 0.14 | < 0.0016 | < 0.00081 | < 0.0008 | < 0.00082 |
| 8260B | Trichloroethene | 79-01-6 | MG/KG | 0.043 | 0.1 | 0.003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.58 J | < 0.0012 | 0.0069 J | < 0.15 | < 0.0023 | < 0.0012 | < 0.0012 | < 0.0012 |
| 8260B | Trichlorofluoromethane | 75-69-4 | MG/KG | 390 | 1400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.56 J | < 0.0013 | < 0.0063 | < 0.14 | < 0.0026 | < 0.0013 | < 0.0013 | < 0.0013 |
| 8260B | Vinyl acetate | 108-05-4 | MG/KG | 430 | 1600 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.85 J | < 0.0014 | < 0.0065 | < 0.21 | < 0.0027 | < 0.0014 | < 0.0013 | < 0.0014 |
| 8260B | Vinyl chloride | 75-01-4 | MG/KG | 0.043 | 0.86 | 0.0007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.59 J | < 0.00098 | < 0.0046 | < 0.15 | < 0.0019 | < 0.00097 | < 0.00097 | < 0.00099 |
| 8260B | Xylenes (total) | 1330-20-7 | MG/KG | 210 | 210 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1.6 J | < 0.0027 | 0.014 J | < 0.4 | 0.45 | 0.0045 J | < 0.0027 | < 0.0027 |
| | **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | MG/KG | 140 | 260 | 0.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.3 | < 0.058 | < 0.055 | < 0.06 | < 0.28 | < 0.058 | < 0.057 | < 0.058 |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.051 | < 0.048 | 0.12 J | 1.4 J | < 0.051 | < 0.05 | < 0.051 |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.23 | < 0.044 | < 0.042 | 0.078 J | < 0.21 | < 0.044 | < 0.044 | < 0.044 |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.039 | < 0.037 | 0.087 J | < 0.18 | < 0.038 | < 0.038 | < 0.038 |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | MG/KG | 6100 | 68000 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.23 | < 0.044 | < 0.042 | < 0.046 | < 0.21 | < 0.044 | < 0.044 | < 0.044 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | MG/KG | 44 | 170 | 0.008 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.29 | < 0.057 | < 0.054 | < 0.059 | < 0.27 | < 0.056 | < 0.056 | < 0.056 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | MG/KG | 180 | 2100 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.29 | < 0.056 | < 0.053 | < 0.058 | < 0.27 | < 0.056 | < 0.055 | < 0.056 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | MG/KG | 1200 | 14000 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.52 | < 0.1 | < 0.096 | < 0.11 | < 0.49 | < 0.1 | < 0.1 | < 0.1 |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | MG/KG | 120 | 1400 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12 | < 0.23 | < 0.22 | < 0.24 | < 1.1 | < 0.23 | < 0.23 | < 0.23 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | MG/KG | 120 | 1400 | 0.00004 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1 | < 0.2 | < 0.19 | < 0.21 | < 0.97 | < 0.2 | < 0.2 | < 0.2 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | MG/KG | 61 | 680 | 0.00003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.27 | < 0.053 | < 0.05 | < 0.055 | < 0.25 | < 0.053 | < 0.052 | < 0.053 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | MG/KG | 3900 | 26000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.04 | < 0.038 | < 0.042 | < 0.19 | < 0.04 | < 0.04 | < 0.04 |
| 8270C | 2-Chlorophenol | 95-57-8 | MG/KG | 64 | 260 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.038 | < 0.036 | < 0.039 | < 0.18 | < 0.037 | < 0.037 | < 0.037 |
| 8270C | 2-Methylnaphthalene | 91-57-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.041 | < 0.039 | < 0.043 | 0.49 J | < 0.041 | < 0.041 | < 0.041 |
| 8270C | 2-Methylphenol | 95-48-7 | MG/KG | 3100 | 34000 | 0.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.051 | < 0.049 | < 0.053 | < 0.25 | < 0.051 | < 0.051 | < 0.051 |
| 8270C | 2-Nitroaniline | 88-74-4 | MG/KG | 180 | 2000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.28 | < 0.055 | < 0.052 | < 0.057 | < 0.26 | < 0.054 | < 0.054 | < 0.055 |
| 8270C | 2-Nitrophenol | 88-75-5 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.42 | < 0.081 | < 0.077 | < 0.084 | < 0.39 | < 0.081 | < 0.08 | < 0.081 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | MG/KG | 1.1 | 4.3 | 0.0003 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.031 | < 0.029 | < 0.032 | < 0.15 | < 0.031 | < 0.03 | < 0.031 |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | 0.083 J | < 0.037 | 0.058 J | 140 | < 0.039 | 0.32 J | 0.072 J |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | MG/KG | 310 | 3400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.43 | < 0.084 | < 0.079 | < 0.087 | < 0.4 | < 0.083 | < 0.083 | < 0.083 |
| 8270C | 3-Nitroaniline | 99-09-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.041 | < 0.039 | < 0.043 | < 0.2 | < 0.041 | < 0.041 | < 0.041 |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 J | < 0.18 | < 0.17 J | < 0.19 | < 0.87 | < 0.18 | < 0.18 | < 0.18 |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.2 | < 0.039 | < 0.037 | < 0.04 | < 0.19 | < 0.039 | < 0.038 | < 0.039 |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.35 | < 0.068 | < 0.064 | < 0.07 | < 0.33 | < 0.068 | < 0.067 | < 0.068 |
| 8270C | 4-Chloroaniline | 106-47-8 | MG/KG | 240 | 2700 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.25 | < 0.048 | < 0.046 | < 0.05 | < 0.23 | < 0.048 | 0.16 J | < 0.048 |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.17 | < 0.033 | < 0.031 | < 0.034 | < 0.16 | < 0.033 | < 0.033 | < 0.033 |
| 8270C | 4-Nitroaniline | 100-01-6 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.66 | < 0.13 | < 0.12 | < 0.13 | < 0.62 | < 0.13 | < 0.13 | < 0.13 |
| 8270C | 4-Nitrophenol | 100-02-7 | MG/KG | 490 | 5500 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1 | < 0.19 | < 0.18 | < 0.2 | < 0.93 | < 0.19 | < 0.19 | < 0.19 |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-23(2-4') 3/28/2008 | DPT-24(2-4') 3/29/2008 | DPT-24(8-10') 3/29/2008 | DPT-25(2-4') 3/29/2008 | DPT-25(6-8') 3/29/2008 | DPT-26(2-4') 3/29/2008 | DPT-26(4-6') 3/29/2008 | DPT-27(0-2') 3/29/2008 | DPT-27(8-10') 3/29/2008 | DPT-28(8-12') 3/29/2008 | DPT-29(4-8') 3/29/2008 | DPT-3 (0-4') 3/26/2008 | DPT-3 (16-20') 3/26/2008 | DPT-30(0-4') 3/29/2008 | DPT-31(8-12') 3/29/2008 | DPT-32(12-16') 3/29/2008 | DPT-33 TW-7(8-12') 3/29/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Acenaphthene | 83-32-9 | MG/KG | 3700 | 33000 | 29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.23 | < 0.045 | < 0.042 | < 0.046 | < 0.21 | < 0.044 | < 0.044 | < 0.045 |
| 8270C | Acenaphthylene | 208-96-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.22 | < 0.042 | < 0.04 | < 0.044 | < 0.2 | < 0.042 | < 0.042 | < 0.042 |
| 8270C | Aniline | 62-53-3 | MG/KG | 85 | 340 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.041 | < 0.039 | < 0.042 | < 0.19 | < 0.04 | < 0.04 | < 0.041 |
| 8270C | Anthracene | 120-12-7 | MG/KG | 22000 | 100000 | 590 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.032 | < 0.03 | < 0.033 | < 0.15 | < 0.032 | < 0.031 | < 0.032 |
| 8270C | Benzo(a)anthracene | 56-55-3 | MG/KG | 0.15 | 2.3 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.13 | < 0.026 | < 0.024 | < 0.027 | < 0.12 | < 0.025 | < 0.025 | < 0.026 |
| 8270C | Benzo(a)pyrene | 50-32-8 | MG/KG | 0.015 | 0.23 | 0.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.029 | < 0.028 | < 0.03 | < 0.14 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | MG/KG | 0.15 | 2.3 | 0.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.35 | < 0.067 | < 0.064 | < 0.07 | < 0.32 | < 0.067 | < 0.066 | < 0.067 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.18 | < 0.035 | < 0.033 | < 0.036 | < 0.17 | < 0.034 | < 0.034 | < 0.034 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | MG/KG | 1.5 | 23 | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.26 | < 0.051 | < 0.049 | < 0.053 | < 0.25 | < 0.051 | < 0.051 | < 0.051 |
| 8270C | Benzoic acid | 65-85-0 | MG/KG | 100000 | 100000 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.77 | < 0.15 | < 0.14 | < 0.15 | < 0.71 | < 0.15 | < 0.15 | < 0.15 |
| 8270C | Benzyl alcohol | 100-51-6 | MG/KG | 18000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.55 | < 0.11 | < 0.1 | < 0.11 | < 0.51 | < 0.11 | < 0.11 | < 0.11 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.22 | < 0.042 | < 0.04 | < 0.043 | < 0.2 | < 0.042 | < 0.041 | < 0.042 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | MG/KG | 0.21 | 0.62 | 0.00002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.23 | < 0.044 | < 0.042 | < 0.046 | < 0.21 | < 0.044 | < 0.044 | < 0.044 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | MG/KG | 2.9 | 8.2 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.18 | < 0.035 | < 0.033 | < 0.036 | < 0.17 | < 0.035 | < 0.035 | < 0.035 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | MG/KG | 35 | 140 | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.28 | 0.11 J | 0.082 J | 0.076 J | 0.45 J | 0.09 J | 0.095 J | 0.1 J |
| 8270C | Butyl benzyl phthalate | 85-68-7 | MG/KG | 240 | 240 | 810 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.17 | < 0.034 | < 0.032 | < 0.035 | < 0.16 | < 0.033 | < 0.033 | < 0.034 |
| 8270C | Chrysene | 218-01-9 | MG/KG | 15 | 230 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.029 | < 0.028 | < 0.03 | < 0.14 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | MG/KG | 0.015 | 0.23 | 0.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.56 | < 0.11 | < 0.1 | < 0.11 | < 0.52 | < 0.11 | < 0.11 | < 0.11 |
| 8270C | Dibenzofuran | 132-64-9 | MG/KG | 150 | 1700 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.24 | < 0.046 | < 0.044 | < 0.048 | < 0.22 | < 0.046 | < 0.046 | < 0.046 |
| 8270C | Diethyl phthalate | 84-66-2 | MG/KG | 49000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.14 | < 0.028 | < 0.026 | < 0.029 | < 0.13 | < 0.028 | < 0.027 | < 0.028 |
| 8270C | Dimethyl phthalate | 131-11-3 | MG/KG | 100000 | 100000 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.031 | < 0.029 | < 0.032 | < 0.15 | < 0.031 | < 0.03 | < 0.031 |
| 8270C | Di-n-butyl phthalate | 84-74-2 | MG/KG | 6100 | 68000 | 270 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.032 | < 0.03 | < 0.033 | < 0.15 | < 0.032 | < 0.031 | < 0.032 |
| 8270C | Di-n-octyl phthalate | 117-84-0 | MG/KG | NA | NA | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.8 | < 0.16 | < 0.15 | < 0.16 | < 0.75 | < 0.16 | < 0.15 | < 0.16 |
| 8270C | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | **1800** | 13 | < 0.016 J | < 0.018 | 5.7 | 19 | < 0.017 | 9.2 |
| 8270C | Fluoranthene | 206-44-0 | MG/KG | 2300 | 24000 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.031 | < 0.03 | < 0.033 | < 0.15 | < 0.031 | < 0.031 | < 0.031 |
| 8270C | Fluorene | 86-73-7 | MG/KG | 2600 | 26000 | 28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.03 | < 0.028 | < 0.031 | < 0.14 | < 0.03 | < 0.029 | < 0.03 |
| 8270C | Hexachlorobenzene | 118-74-1 | MG/KG | 0.3 | 1.2 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.19 | < 0.036 | < 0.034 | < 0.037 | < 0.17 | < 0.036 | < 0.036 | < 0.036 |
| 8270C | Hexachlorobutadiene | 87-68-3 | MG/KG | 6.2 | 25 | 0.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.27 | < 0.052 | < 0.05 | < 0.054 | < 0.25 | < 0.052 | < 0.052 | < 0.052 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | MG/KG | 370 | 4100 | 20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 1.1 | < 0.22 | < 0.21 | < 0.23 | < 1 | < 0.22 | < 0.22 | < 0.22 |
| 8270C | Hexachloroethane | 67-72-1 | MG/KG | 35 | 140 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.29 | < 0.056 | < 0.053 | < 0.058 | < 0.27 | < 0.055 | < 0.055 | < 0.055 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | MG/KG | 0.15 | 2.3 | 0.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.34 | < 0.066 | < 0.063 | < 0.069 | < 0.32 | < 0.066 | < 0.066 | < 0.066 |
| 8270C | Isophorone | 78-59-1 | MG/KG | 510 | 2000 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.28 | < 0.055 | < 0.052 | < 0.057 | < 0.26 | < 0.055 | < 0.054 | < 0.055 |
| 8270C | Naphthalene | 91-20-3 | MG/KG | 120 | 210 | 4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.21 | < 0.041 | < 0.039 | < 0.042 | 0.2 J | < 0.041 | < 0.04 | < 0.041 |
| 8270C | Nitrobenzene | 98-95-3 | MG/KG | 20 | 110 | 0.007 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.33 | < 0.063 | < 0.06 | < 0.066 | < 0.3 | < 0.063 | < 0.063 | < 0.063 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | MG/KG | 0.07 | 0.27 | 0.000002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.16 | < 0.031 | < 0.03 | < 0.032 | < 0.15 | < 0.031 | < 0.031 | < 0.031 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | MG/KG | 99 | 390 | 0.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.029 | < 0.028 | < 0.03 | < 0.14 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Pentachlorophenol | 87-86-5 | MG/KG | 3 | 10 | 0.001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.34 | < 0.065 | < 0.062 | < 0.067 | < 0.31 | < 0.065 | < 0.064 | < 0.065 |
| 8270C | Phenanthrene | 85-01-8 | MG/KG | NA | NA | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.029 | < 0.027 | < 0.03 | < 0.14 | < 0.028 | < 0.028 | < 0.028 |
| 8270C | Phenol | 108-95-2 | MG/KG | 18000 | 100000 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.22 | < 0.042 | < 0.04 | < 0.044 | < 0.2 | < 0.042 | < 0.042 | < 0.042 |
| 8270C | Propanil | 709-98-8 | MG/KG | 310 | 3400 | NA | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.18 | 0.12 J | < 0.034 | < 0.037 | **890** | < 0.036 | 0.63 | 0.18 J |
| 8270C | Pyrene | 129-00-0 | MG/KG | 2300 | 32000 | 210 | -- | -- | -- | -- | -- | -- | -- | -- | -- | < 0.15 | < 0.03 | < 0.028 | < 0.031 | < 0.14 | < 0.03 | < 0.03 | < 0.03 |

Notes:

| | |
|---|---|
| | Exceeds the DAF1 MSSL Standard |
| | Exceeds the Industrial Outdoor Worker MSSL Standard |
| **Bold** | Exceeds the Residential Soil MSSL Standard |
| -- | No data available for reported analyte |
| | The analyte was not detected at the concentration given. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| JH | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a high bias. |
| JL | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a low bias. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration |
| UB | Not detected substantially above the concentration reported in the laboratory or field blanks. For organics - 5X (10X for common laboratory contaminants) or for metals 10X. Data point considered non-detect at the reported value. |
| UBJ | Not detected substantially above the concentration reported in the laboratory or field blanks. Data point considered non-detect and the reported value is an approximate. |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-34(4-8') 3/29/2008 | DPT-35(12-16') 3/30/2008 | DPT-36(4-8') 3/30/2008 | DPT-37(4-8') 3/30/2008 | DPT-38(4-8') | DPT-39(12-16') 3/30/2008 | DPT-39(4-8') 3/30/2008 | DPT-4 (0-4') 3/26/2008 | DPT-40(0-4') 3/30/2008 | DPT-5 (0-4') 3/26/2008 | DPT-6 (0-4') 3/26/2008 | DPT-7 (0-4') 3/27/2008 | DPT-7 (12-16') 3/27/2008 | DPT-8 (0-4') 3/27/2008 | DPT-9 (0-4') 3/27/2008 | DPT-9 (12-16') 3/27/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | MG/KG | 76000 | 100000 | NA | 18400 | 11200 | 22200 | 17600 | 12000 | 10700 | 22300 | 9170 | 12400 | 15600 | 14600 | 11700 | 8770 | 13100 | 15200 | 8510 |
| 6020 | Antimony | 7440-36-0 | MG/KG | 31 | 450 | 0.3 | 0.18 | 0.14 | 0.17 | 0.13 | 0.26 | 0.64 | 0.15 | 0.23 | 0.18 | 0.28 | 0.36 | 0.27 | 0.29 | 0.19 UB | 0.26 | 0.28 |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 0.39 | 1.8 | 1 | **5.2** | **8.5** | **8.9** | **5.5** | **8.6** | **5.3** | **8.6** | **4.7** | **7.7** | **6.5** | **6.7** | **6.4** | **8.7** | **4.9** | **7.1** | **8.6** |
| 6020 | Barium | 7440-39-3 | MG/KG | 16000 | 100000 | 82 | 124 | 183 | 189 | 154 | 202 | 137 | 165 | 133 | 214 | 114 | 118 | 97.7 | 157 | 93.7 | 76.5 | 153 |
| 6020 | Beryllium | 7440-41-7 | MG/KG | 150 | 2200 | 3 | 0.51 | 0.39 | 0.77 | 0.62 | 0.61 | 0.5 | 0.8 | 0.38 | 0.59 | 0.48 | 0.6 | 0.44 | 0.46 | 0.4 | 0.52 | 0.42 |
| 6020 | Cadmium | 7440-43-9 | MG/KG | 39 | 560 | 0.4 | 0.074 | 0.094 | 0.082 | 0.081 | 0.31 | 0.56 | 0.067 | 0.12 | 0.12 | 0.067 | 0.077 | 0.14 | 0.35 | 0.09 | 0.095 | 0.39 |
| 6020 | Calcium | 7440-70-2 | MG/KG | NA | NA | NA | 2340 | 2170 | 1990 | 964 | 6220 | 73700 | 1430 | 10200 | 2470 | 2440 | 1950 | 10100 | 2580 | 2180 | 6510 | 2570 |
| 6020 | Chromium | 7440-47-3 | MG/KG | 210 | 500 | 2 | 19.5 | 16.4 | 23.1 | 19.4 | 18.9 | 18.5 | 21.5 | 11.5 JH | 15.8 | 16.1 JH | 15.3 JH | 14.2 JH | 13.4 JH | 14.4 JH | 15.8 JH | 12.6 JH |
| 6020 | Cobalt | 7440-48-4 | MG/KG | 900 | 2100 | NA | 7.7 | 5 | 8.1 | 7.9 | 10.3 | 6.9 | 7 | 5.7 | 6.6 | 7.1 | 7.5 | 7.2 | 7.9 | 6.1 | 7.7 | 8 |
| 6020 | Copper | 7440-50-8 | MG/KG | 2900 | 42000 | NA | 12.9 | 13.3 | 18.7 | 14.3 | 17.8 | 14.6 | 19.1 | 10 | 13.7 | 14 | 14.5 | 13.1 | 13.2 | 10.7 | 13.2 | 13 |
| 6020 | Iron | 7439-89-6 | MG/KG | 55000 | 100000 | NA | 19300 | 20500 | 24200 | 19000 | 21800 | 17100 | 25500 | 12800 | 19100 | 20400 | 19500 | 17900 | 19300 | 15900 | 20100 | 19000 |
| 6020 | Lead | 7439-92-1 | MG/KG | 400 | 800 | NA | 10.7 | 10.1 | 13.1 | 10 | 13.2 | 12.2 | 13.3 | 9.1 | 10.5 | 10.7 | 10.5 | 10.3 | 10.3 | 8.9 | 10.9 | 10.2 |
| 6020 | Magnesium | 7439-95-4 | MG/KG | NA | NA | NA | 2510 | 2270 | 2970 | 2390 | 5520 | 15400 | 3120 | 4100 | 2270 | 2630 | 2310 | 3530 | 2600 | 1740 | 2570 | 2530 |
| 6020 | Manganese | 7439-96-5 | MG/KG | 3200 | 35000 | NA | 481 | 402 | 607 | 673 | 669 | 363 | 486 | 483 | 548 | 562 | 568 | 546 | 841 | 502 | 596 | 841 |
| 6020 | Nickel | 7440-02-0 | MG/KG | 1600 | 23000 | 7 | 19.4 | 15.5 | 22.4 | 18.5 | 23.6 | 19 | 24.2 | 13.9 | 16.1 | 18.1 | 18.6 | 17.1 | 19.3 | 16.4 | 18.1 | 18.8 |
| 6020 | Potassium | 9/7/7440 | MG/KG | NA | NA | NA | 2050 JH | 1390 JH | 1720 JH | 1470 JH | 1620 JH | 2110 JH | 1870 JH | 909 JH | 1480 JH | 1080 JH | 1000 JH | 1010 JH | 1030 JH | 1110 JH | 1570 JH | 1040 JH |
| 6020 | Selenium | 7782-49-2 | MG/KG | 390 | 5700 | 0.3 | 0.26 | 0.14 | 0.46 | 0.34 | 0.43 | 0.57 | 0.14 | < 0.14 | 0.26 | < 0.12 | < 0.14 | < 0.13 | < 0.15 | 0.24 | 0.24 | < 0.13 |
| 6020 | Silver | 7440-22-4 | MG/KG | 390 | 5700 | 2 | < 0.021 | < 0.022 | < 0.023 | < 0.02 | < 0.02 | 0.027 | < 0.02 | 0.022 | < 0.016 | 0.034 | < 0.022 | 0.036 | < 0.023 | 0.02 | < 0.023 | < 0.021 |
| 6020 | Sodium | 7440-23-5 | MG/KG | NA | NA | NA | 57.3 J | 323 | 149 | 89.7 J | 259 | 189 | 281 | 26.5 J | 343 | 93.1 J | 61.6 J | 15.7 J | 49.1 J | < 7.3 | < 8.4 | 54.5 J |
| 6020 | Thallium | 7440-28-0 | MG/KG | 5.5 | 80 | 0.4 | 0.29 | 0.28 | 0.39 | 0.31 | 0.37 | 0.25 | 0.4 | 0.19 | 0.3 | 0.27 | 0.28 | 0.26 | 0.28 | 0.2 | 0.26 | 0.28 |
| 6020 | Vanadium | 7440-62-2 | MG/KG | 390 | 5700 | 300 | 34.2 | 33.5 | 41.6 | 34.6 | 37.6 | 33.1 | 43 | 20 | 33.8 | 30.9 | 29.3 | 26.5 | 28.8 | 26.9 | 31.2 | 27.8 |
| 6020 | Zinc | 7440-66-6 | MG/KG | 23000 | 100000 | 620 | 60.6 | 55.5 | 67.7 | 52 | 66.4 | 82 | 72.3 | 44 | 57 | 50.5 | 48.8 | 49.8 | 54.9 | 41 | 48.2 | 54.4 |
| 7471A | Mercury | 7439-97-6 | MG/KG | NA | NA | 0.1 | 0.015 J | 0.0083 J | 0.027 J | 0.017 J | 0.023 J | 0.018 J | 0.014 J | 0.018 J | 0.021 J | 0.014 J | 0.016 J | 0.022 J | 0.026 J | 0.016 J | 0.0087 J | 0.025 J |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | MG/KG | 2.4 | 11 | 0.8 | < 0.028 J | < 0.028 J | < 0.027 J | < 0.027 J | < 0.028 J | < 0.029 J | < 0.028 J | 0.043 J | < 0.028 J | < 0.034 J | < 0.034 J | < 0.14 J | < 0.035 J | < 0.035 J | < 0.069 J | < 0.035 J |
| 8081A | 4,4'-DDE | 72-55-9 | MG/KG | 1.7 | 7.8 | 3 | < 0.012 J | < 0.012 J | < 0.012 J | < 0.012 J | < 0.012 J | < 0.013 J | < 0.012 J | 0.036 J | < 0.012 J | 0.019 J | 0.034 J | < 0.06 J | < 0.015 J | 0.03 J | < 0.03 J | < 0.015 J |
| 8081A | 4,4'-DDT | 50-29-3 | MG/KG | 1.7 | 7.8 | 2 | < 0.03 J | < 0.03 J | < 0.029 J | < 0.03 J | < 0.031 J | < 0.031 J | < 0.03 J | < 0.035 J | < 0.03 J | < 0.037 J | < 0.037 J | < 0.15 J | < 0.038 J | 0.095 J | < 0.075 J | < 0.037 J |
| 8081A | Aldrin | 309-00-2 | MG/KG | 0.029 | 0.11 | 0.02 | < 0.013 J | < 0.013 J | < 0.012 J | < 0.013 J | < 0.013 J | < 0.013 J | < 0.013 J | < 0.015 J | < 0.013 J | < 0.016 J | < 0.016 J | < 0.063 J | < 0.016 J | < 0.016 J | < 0.032 J | < 0.016 J |
| 8081A | alpha-BHC | 319-84-6 | MG/KG | 0.09 | 0.4 | 0.00003 | < 0.011 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.013 J | < 0.011 J | < 0.013 J | < 0.013 J | < 0.054 J | < 0.014 J | < 0.014 J | < 0.027 J | < 0.014 J |
| 8081A | alpha-Chlordane | 5103-71-9 | MG/KG | NA | NA | NA | < 0.016 J | < 0.016 J | < 0.016 J | < 0.016 J | < 0.017 J | < 0.017 J | < 0.016 J | < 0.019 J | < 0.016 J | < 0.02 J | < 0.02 J | < 0.081 J | < 0.021 J | < 0.021 J | < 0.041 J | < 0.02 J |
| 8081A | beta-BHC | 319-85-7 | MG/KG | 0.32 | 1.4 | 0.0001 | < 0.015 J | < 0.015 J | < 0.014 J | < 0.014 J | < 0.015 J | < 0.015 J | < 0.015 J | 0.023 J | < 0.014 J | < 0.018 J | < 0.018 J | < 0.072 J | < 0.018 J | < 0.018 J | < 0.036 J | < 0.018 J |
| 8081A | Chlordane (technical) | 57-74-9 | MG/KG | 1.6 | 7.2 | 0.5 | < 0.4 J | < 0.4 J | < 0.38 J | < 0.39 J | < 0.4 J | < 0.41 J | < 0.4 J | < 0.46 J | < 0.39 J | < 0.49 J | < 0.49 J | < 2 J | < 0.5 J | < 0.5 J | < 0.99 J | < 0.49 J |
| 8081A | delta-BHC | 319-86-8 | MG/KG | NA | NA | NA | < 0.0085 J | < 0.0085 J | < 0.0081 J | < 0.0083 J | < 0.0086 J | < 0.0087 J | < 0.0084 J | < 0.0099 J | < 0.0084 J | < 0.01 J | < 0.01 J | < 0.042 J | < 0.011 J | < 0.011 J | < 0.021 J | < 0.01 J |
| 8081A | Dieldrin | 60-57-1 | MG/KG | 0.03 | 0.12 | 0.0002 | < 0.011 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.013 J | 0.022 J | < 0.013 J | < 0.013 J | < 0.053 J | < 0.014 J | < 0.013 J | < 0.027 J | < 0.013 J |
| 8081A | Endosulfan I | 959-98-8 | MG/KG | NA | NA | NA | < 0.009 J | < 0.009 J | < 0.0086 J | < 0.0088 J | < 0.0091 J | < 0.0093 J | < 0.009 J | < 0.01 J | < 0.0089 J | < 0.011 J | < 0.011 J | < 0.044 J | < 0.011 J | < 0.011 J | < 0.022 J | < 0.011 J |
| 8081A | Endosulfan II | 33213-65-9 | MG/KG | NA | NA | NA | < 0.015 J | < 0.015 J | < 0.014 J | < 0.014 J | < 0.015 J | < 0.015 J | < 0.015 J | < 0.017 J | < 0.014 J | < 0.018 J | < 0.018 J | < 0.072 J | < 0.018 J | < 0.018 J | < 0.036 J | < 0.018 J |
| 8081A | Endosulfan sulfate | 1031-07-8 | MG/KG | NA | NA | NA | < 0.014 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.015 J | < 0.014 J | < 0.016 J | < 0.014 J | < 0.017 J | < 0.017 J | < 0.07 J | < 0.018 J | < 0.018 J | < 0.035 J | < 0.017 J |
| 8081A | Endrin | 72-20-8 | MG/KG | 18 | 210 | 0.05 | < 0.016 J | < 0.016 J | < 0.015 J | < 0.015 J | < 0.016 J | < 0.016 J | < 0.016 J | < 0.018 J | < 0.015 J | < 0.019 J | < 0.019 J | < 0.077 J | < 0.02 J | < 0.02 J | < 0.039 J | < 0.019 J |
| 8081A | Endrin aldehyde | 7421-93-4 | MG/KG | NA | NA | NA | < 0.011 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.011 J | 0.028 J | < 0.011 J | < 0.013 J | < 0.013 J | < 0.054 J | < 0.014 J | < 0.014 J | < 0.027 J | < 0.013 J |
| 8081A | Endrin ketone | 53494-70-5 | MG/KG | NA | NA | NA | < 0.011 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.011 J | 0.033 J | < 0.011 J | < 0.013 J | < 0.013 J | < 0.054 J | < 0.014 J | < 0.014 J | < 0.027 J | < 0.013 J |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | MG/KG | 0.44 | 1.9 | 0.0005 | < 0.0073 J | < 0.0073 J | < 0.007 J | < 0.0072 J | < 0.0074 J | < 0.0075 J | < 0.0073 J | < 0.0085 J | < 0.0072 J | < 0.009 J | < 0.009 J | < 0.036 J | < 0.0092 J | < 0.0091 J | < 0.018 J | < 0.009 J |
| 8081A | gamma-Chlordane | 5103-74-2 | MG/KG | NA | NA | NA | < 0.014 J | < 0.014 J | < 0.013 J | < 0.013 J | < 0.014 J | < 0.014 J | < 0.014 J | < 0.016 J | < 0.013 J | < 0.017 J | < 0.017 J | < 0.067 J | < 0.017 J | < 0.017 J | < 0.034 J | < 0.017 J |
| 8081A | Heptachlor | 76-44-8 | MG/KG | 0.11 | 0.43 | 1 | < 0.011 J | < 0.011 J | < 0.01 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.011 J | < 0.013 J | < 0.011 J | < 0.013 J | < 0.013 J | < 0.054 J | < 0.014 J | < 0.014 J | < 0.027 J | < 0.014 J |
| 8081A | Heptachlor epoxide | 1024-57-3 | MG/KG | 0.053 | 0.21 | 0.03 | < 0.022 J | < 0.022 J | < 0.021 J | < 0.021 J | < 0.022 J | < 0.022 J | < 0.022 J | < 0.025 J | < 0.021 J | < 0.027 J | < 0.027 J | < 0.11 J | < 0.027 J | < 0.027 J | < 0.054 J | < 0.027 J |
| 8081A | Methoxychlor | 72-43-5 | MG/KG | 310 | 3400 | 8 | 0.14 J | < 0.023 J | < 0.022 J | < 0.023 J | < 0.023 J | < 0.024 J | < 0.023 J | 0.52 J | 0.085 J | 0.038 J | 0.093 J | 4.5 J | < 0.029 J | 0.03 J | < 0.057 J | < 0.028 J |
| 8081A | Toxaphene | 8001-35-2 | MG/KG | 0.44 | 1.7 | 2 | < 0.81 J | < 0.81 J | < 0.77 J | < 0.79 J | < 0.82 J | < 0.83 J | < 0.8 J | < 0.94 J | < 0.8 J | < 0.99 J | < 0.99 J | < 4 J | < 1 J | < 1 J | < 2 J | < 1 J |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | 0.46 | 45 | 0.17 | 2.6 | 0.016 UB | 0.016 UB | 0.27 | 6.3 | 0.015 UB | 0.65 | < 0.0024 | 0.2 | < 0.0024 | 31 | 4 | 0.011 J |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | MG/KG | 1400 | 1400 | 0.1 | < 0.00097 | < 0.002 | < 0.00094 | < 0.00097 | < 0.00099 | < 0.13 | < 0.00097 | < 0.0018 | < 0.00095 | < 0.00096 | < 0.00096 | < 0.00096 | < 0.0046 | < 0.00098 | < 0.00098 | < 0.00096 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | MG/KG | 0.38 | 0.97 | 0.0002 | < 0.004 | < 0.0081 | < 0.0039 | < 0.004 | < 0.0041 | < 0.18 | < 0.004 | < 0.0076 | < 0.0039 | < 0.004 | < 0.004 | < 0.004 | < 0.019 | < 0.0041 | < 0.004 | < 0.004 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | MG/KG | 0.84 | 2.1 | 0.0009 | < 0.00066 | < 0.0013 | < 0.00064 | < 0.00066 | < 0.00068 | < 0.15 | < 0.00066 | < 0.0012 | < 0.00065 | < 0.00065 | 0.00075 J | < 0.00065 | < 0.0032 | < 0.00067 | < 0.00066 | < 0.00066 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | MG/KG | 850 | 2300 | 1 | < 0.00079 | < 0.0016 | < 0.00076 | < 0.00078 | < 0.0008 | < 0.14 | < 0.00078 | < 0.0015 | < 0.00077 | < 0.00078 | < 0.00077 | < 0.00078 | < 0.0037 | < 0.00079 | < 0.00079 | < 0.00078 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | MG/KG | 280 | 470 | 0.003 | < 0.0011 | < 0.0022 | < 0.001 | < 0.0011 | < 0.0011 | < 0.15 | < 0.0011 | < 0.002 | < 0.0011 | < 0.0011 | < 0.0011 | < 0.0011 | < 0.0052 | < 0.0011 | < 0.0011 | < 0.0011 J |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | MG/KG | 0.028 | 0.07 | NA | < 0.00096 | < 0.0019 | < 0.00092 | < 0.00095 | < 0.00097 | < 0.16 | < 0.00095 | < 0.0018 | < 0.00094 | < 0.00094 | < 0.00094 | < 0.00094 | < 0.0046 | < 0.00097 | < 0.00096 | < 0.00095 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | 0.16 | 0.099 | < 0.0021 | 0.033 | 0.008 | 0.33 | 0.76 | 0.44 | 0.13 | 0.01 | 0.0039 J | 0.013 | < 0.01 | 0.0085 | 0.027 | 0.0056 J |
| 8260B | 1,2-Dichloroethane | 107-06-2 | MG/KG | 0.35 | 0.84 | 0.001 | < 0.00097 | 0.0056 J | < 0.00093 | < 0.00097 | 0.018 | **8.4** | 0.12 | 0.004 J | 0.0086 | 0.041 | 0.21 | 0.01 | **1** | 0.0045 J | 0.051 | 0.31 |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | MG/KG | NA | NA | NA | < 0.0015 | < 0.003 | < 0.0014 | < 0.0015 | < 0.0015 | < 0.27 | < 0.0015 | < 0.0028 | < 0.0015 | < 0.0015 | < 0.0015 | < 0.0015 | < 0.0072 | < 0.0015 | < 0.0015 | 0.0016 J |
| 8260B | 1,2-Dichloropropane | 78-87-5 | MG/KG | 0.35 | 0.85 | 0.001 | < 0.00086 | < 0.0017 | < 0.00083 | < 0.00086 | < 0.00088 | < 0.17 | < 0.00086 | < 0.0016 | < 0.00084 | < 0.00085 | < 0.00085 | < 0.00085 | < 0.0041 | < 0.00087 | < 0.00086 | < 0.00085 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | < 0.0011 | < 0.0022 | < 0.001 | < 0.0011 | < 0.0011 | < 0.14 | 0.0013 J | < 0.002 | 0.0023 J | < 0.0011 | < 0.0011 | 0.0015 J | < 0.0052 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | 0.0025 J | < 0.0029 | < 0.0014 | < 0.0014 | < 0.0014 | < 0.14 | 0.018 | 0.003 J | 0.0054 J | < 0.0014 | < 0.0014 | < 0.0014 | < 0.0068 | < 0.0014 | < 0.0014 | < 0.0014 |
| 8260B | 2-Butanone (MEK) | 78-93-3 | MG/KG | 32000 | 34000 | NA | 0.055 | 0.84 | 0.013 | 0.023 | 0.0032 J | < 0.29 | 0.039 | 0.021 J | 0.011 J | 0.0091 J | < 0.0023 | < 0.0023 | < 0.011 | < 0.0023 | 0.049 | 0.099 |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-34(4-8') 3/29/2008 | DPT-35(12-16') 3/30/2008 | DPT-36(4-8') 3/30/2008 | DPT-37(4-8') 3/30/2008 | DPT-38(4-8') | DPT-39(12-16') 3/30/2008 | DPT-39(4-8') 3/30/2008 | DPT-4 (0-4') 3/26/2008 | DPT-40(0-4') 3/30/2008 | DPT-5 (0-4') 3/26/2008 | DPT-6 (0-4') 3/26/2008 | DPT-7 (0-4') 3/27/2008 | DPT-7 (12-16') 3/27/2008 | DPT-8 (0-4') 3/27/2008 | DPT-9 (0-4') 3/27/2008 | DPT-9 (12-16') 3/27/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | MG/KG | NA | NA | NA | < 0.00071 | < 0.0014 | < 0.00068 | < 0.00071 | < 0.00073 | < 0.17 | < 0.00071 | < 0.0013 | < 0.0007 | < 0.0007 | < 0.0007 | < 0.0007 | < 0.0034 | < 0.00072 | < 0.00071 | < 0.00071 |
| 8260B | 2-Hexanone | 591-78-6 | MG/KG | NA | NA | NA | < 0.0038 | < 0.0075 | < 0.0036 | < 0.0037 | < 0.0038 | < 0.17 | < 0.0037 | < 0.007 | < 0.0037 | < 0.0037 | < 0.0037 | < 0.0037 | < 0.018 | < 0.0038 | < 0.0038 | < 0.0037 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | MG/KG | 5800 | 17000 | NA | 0.017 | < 0.0043 | < 0.002 | < 0.0021 | < 0.0022 | < 0.19 | 0.039 | < 0.004 | < 0.0021 | < 0.0021 | < 0.0021 | < 0.0021 | < 0.01 | < 0.0021 | < 0.0021 | < 0.0021 |
| 8260B | Acetone | 67-64-1 | MG/KG | 14000 | 60000 | 0.8 | 0.063 UB | 0.13 UB | 0.061 UB | 0.063 UB | 0.064 UB | 3.3 UB | 0.063 UB | 0.12 UB | 0.062 UB | 0.062 UB | 0.062 UB | 0.0042 J | < 0.01 | 0.005 J | 0.063 | 0.25 J |
| 8260B | Benzene | 71-43-2 | MG/KG | 0.66 | 1.6 | 0.002 | < 0.00085 | < 0.0017 | < 0.00081 | < 0.00084 | < 0.00086 | < 0.16 | < 0.00084 | < 0.0016 | < 0.00083 | < 0.00084 | < 0.00083 | < 0.00084 | < 0.004 | < 0.00085 | < 0.00085 | < 0.00084 |
| 8260B | Bromobenzene | 108-86-1 | MG/KG | 73 | 120 | NA | < 0.00074 | < 0.0015 | < 0.00071 | < 0.00073 | < 0.00075 | < 0.15 | < 0.00074 | < 0.0014 | < 0.00072 | < 0.00073 | < 0.00073 | < 0.00073 | < 0.0035 | < 0.00075 | < 0.00074 | < 0.00073 |
| 8260B | Bromochloromethane | 74-97-5 | MG/KG | NA | NA | NA | < 0.001 | < 0.002 | < 0.00097 | < 0.001 | < 0.001 | < 0.13 | < 0.001 | < 0.0019 | < 0.00098 | < 0.00099 | < 0.00099 | < 0.00099 | < 0.0048 | < 0.001 | < 0.001 | < 0.001 |
| 8260B | Bromodichloromethane | 75-27-4 | MG/KG | 1 | 2.6 | 0.03 | < 0.00078 | < 0.0016 | < 0.00075 | < 0.00078 | < 0.0008 | < 0.17 | < 0.00078 | < 0.0015 | < 0.00077 | < 0.00077 | < 0.00077 | < 0.00077 | < 0.0037 | < 0.00079 | < 0.00078 | < 0.00078 |
| 8260B | Bromoform | 75-25-2 | MG/KG | 62 | 240 | 0.04 | < 0.0014 | < 0.0028 | < 0.0014 | < 0.0014 | < 0.0014 | < 0.24 | < 0.0014 | < 0.0027 | < 0.0014 | < 0.0014 | < 0.0014 | < 0.0014 | < 0.0067 | < 0.0014 | < 0.0014 | < 0.0014 |
| 8260B | Bromomethane | 74-83-9 | MG/KG | 3.9 | 15 | 0.01 | < 0.00083 | < 0.0017 | < 0.0008 | < 0.00083 | < 0.00084 | < 0.14 | < 0.00083 | < 0.0016 | < 0.00081 | < 0.00082 | < 0.00082 | < 0.00082 | < 0.004 | < 0.00084 | < 0.00083 | < 0.00082 |
| 8260B | Carbon disulfide | 75-15-0 | MG/KG | 720 | 720 | 2 | < 0.001 | < 0.0021 | < 0.001 | < 0.001 | < 0.0011 | < 0.13 | < 0.001 | < 0.002 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.005 | < 0.0011 | < 0.001 | < 0.001 |
| 8260B | Carbon tetrachloride | 56-23-5 | MG/KG | 0.24 | 0.58 | 0.003 | < 0.0014 | < 0.0029 | < 0.0014 | < 0.0014 | < 0.0015 | < 0.15 | < 0.0014 | < 0.0027 | < 0.0014 | < 0.0014 | < 0.0014 | < 0.0014 | < 0.0069 | < 0.0015 | < 0.0014 | < 0.0014 |
| 8260B | Chlorobenzene | 108-90-7 | MG/KG | 270 | 500 | 0.07 | 0.004 J | < 0.0015 | < 0.00071 | < 0.00073 | < 0.00075 | < 0.14 | 0.025 | 0.0044 J | 0.12 | 0.0034 J | < 0.00072 | < 0.00073 | < 0.0035 | < 0.00074 | < 0.00074 | < 0.00073 |
| 8260B | Chloroethane | 75-00-3 | MG/KG | 3 | 7.2 | NA | < 0.00088 | < 0.0018 | < 0.00085 | < 0.00088 | < 0.0009 | < 0.14 | < 0.00088 | < 0.0017 | < 0.00086 | < 0.00087 | < 0.00087 | < 0.00087 | < 0.0042 | < 0.00089 | < 0.00088 | < 0.00087 |
| 8260B | Chloroform | 67-66-3 | MG/KG | 0.25 | 0.58 | 0.03 | < 0.00092 | 0.0023 J | < 0.00089 | < 0.00092 | < 0.00094 | < 0.13 | < 0.00092 | < 0.0017 | < 0.0009 | < 0.00091 | < 0.00091 | 0.00093 J | < 0.0044 | < 0.00093 | < 0.00092 | < 0.00091 |
| 8260B | Chloromethane | 74-87-3 | MG/KG | 1.3 | 3 | NA | < 0.00079 | < 0.0016 | < 0.00075 | < 0.00078 | < 0.0008 | < 0.15 | < 0.00078 | < 0.0015 | < 0.00077 | < 0.00078 | < 0.00077 | < 0.00078 | < 0.0037 | < 0.00079 | < 0.00079 | < 0.00078 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | MG/KG | 43 | 160 | 0.02 | < 0.0008 | < 0.0016 | < 0.00077 | < 0.0008 | < 0.00082 | < 0.14 | < 0.0008 | < 0.0015 | < 0.00078 | < 0.00079 | < 0.00079 | < 0.00079 | < 0.0038 | < 0.00081 | < 0.0008 | 0.0016 J |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | MG/KG | 0.7 | 1.8 | 0.0002 | < 0.00073 | < 0.0015 | < 0.0007 | < 0.00073 | < 0.00075 | < 0.15 | < 0.00073 | < 0.0014 | < 0.00072 | < 0.00072 | < 0.00072 | < 0.00072 | < 0.0035 | < 0.00074 | < 0.00073 | < 0.00073 |
| 8260B | Dibromochloromethane | 124-48-1 | MG/KG | 1 | 2.6 | 0.02 | < 0.00082 | < 0.0017 | < 0.00079 | < 0.00082 | < 0.00084 | < 0.14 | < 0.00082 | < 0.0015 | < 0.00081 | < 0.00081 | < 0.00081 | < 0.00081 | < 0.0039 | < 0.00083 | < 0.00083 | < 0.00082 |
| 8260B | Dibromomethane | 74-95-3 | MG/KG | 140 | 590 | NA | < 0.0011 | < 0.0022 | < 0.0011 | < 0.0011 | < 0.0011 | < 0.16 | < 0.0011 | < 0.0021 | < 0.0011 | < 0.0011 | < 0.0011 | < 0.0011 | < 0.0053 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | Ethylbenzene | 100-41-4 | MG/KG | 230 | 230 | 0.7 | 0.0014 J | 0.0029 J | < 0.001 | < 0.0011 | < 0.0011 | < 0.14 | 0.0045 J | < 0.002 | < 0.0011 | 0.0042 J | < 0.0011 | < 0.0011 | < 0.0051 | < 0.0011 | < 0.0011 | < 0.0011 |
| 8260B | Methylene chloride | 75-09-2 | MG/KG | 8.9 | 22 | 0.001 | 0.0069 | 0.012 J | 0.0022 J | 0.0064 | 0.0018 J | 0.16 J | 0.016 | < 0.0021 | 0.0016 J | 0.0012 J | < 0.0011 | 0.0013 J | 0.0075 J | 0.0034 J | 0.0031 J | 0.013 |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | MG/KG | NA | NA | NA | 0.0075 J | 0.014 J | < 0.0019 | < 0.002 | < 0.002 | < 0.26 | 0.022 | < 0.0038 | < 0.002 | 0.0072 J | < 0.002 | 0.0022 J | < 0.0096 | 0.0034 J | 0.0026 J | < 0.002 |
| 8260B | o-Xylene | 95-47-6 | MG/KG | 280 | 280 | 9 | 0.0061 J | 0.0044 J | < 0.00069 | < 0.00072 | < 0.00073 | < 0.14 | 0.01 | 0.0021 J | < 0.00071 | 0.0014 J | < 0.00071 | 0.0009 J | < 0.0034 | 0.0018 J | 0.0029 J | 0.0019 J |
| 8260B | Styrene | 100-42-5 | MG/KG | 1700 | 1700 | 0.2 | < 0.00067 | < 0.0013 | < 0.00064 | < 0.00067 | < 0.00068 | < 0.14 | < 0.00067 | < 0.0013 | < 0.00066 | < 0.00066 | < 0.00066 | < 0.00066 | < 0.0032 | < 0.00068 | < 0.00067 | < 0.00066 |
| 8260B | Tetrachloroethene | 127-18-4 | MG/KG | 0.55 | 1.7 | 0.003 | < 0.002 | < 0.004 | < 0.0019 | < 0.002 | < 0.002 | < 0.15 | < 0.002 | 0.0038 J | < 0.0019 | < 0.002 | < 0.002 | 0.0055 J | < 0.0095 | 0.0088 | 0.0021 J | 0.0028 J |
| 8260B | Toluene | 108-88-3 | MG/KG | 520 | 520 | 0.6 | 0.0025 J | 0.45 | 0.0011 J | 0.0021 J | < 0.001 | 0.89 | 0.01 | 0.0099 J | < 0.00099 | 0.05 | 0.012 | 0.036 | 0.0094 J | 0.035 | 0.015 | 0.011 |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | MG/KG | 120 | 200 | 0.03 | < 0.00087 | < 0.0018 | < 0.00084 | < 0.00087 | < 0.00089 | < 0.13 | < 0.00087 | < 0.0016 | < 0.00086 | < 0.00086 | < 0.00086 | < 0.00086 | < 0.0042 | < 0.00088 | < 0.00088 | < 0.00087 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | MG/KG | 0.7 | 1.8 | 0.0002 | < 0.00081 | < 0.0016 | < 0.00077 | < 0.0008 | < 0.00082 | < 0.14 | < 0.0008 | < 0.0015 | < 0.00079 | < 0.0008 | < 0.00079 | < 0.0008 | < 0.0038 | < 0.00081 | < 0.00081 | < 0.0008 |
| 8260B | Trichloroethene | 79-01-6 | MG/KG | 0.043 | 0.1 | 0.003 | < 0.0012 | < 0.0024 | < 0.0011 | < 0.0012 | < 0.0012 | < 0.14 | < 0.0012 | < 0.0022 | < 0.0012 | < 0.0012 | < 0.0012 | < 0.0012 | < 0.0057 | < 0.0012 | < 0.0012 | < 0.0012 |
| 8260B | Trichlorofluoromethane | 75-69-4 | MG/KG | 390 | 1400 | NA | < 0.0013 | < 0.0026 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.14 J | < 0.0013 | < 0.0025 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0062 | < 0.0013 | < 0.0013 | < 0.0013 J |
| 8260B | Vinyl acetate | 108-05-4 | MG/KG | 430 | 1600 | 8 | < 0.0013 | < 0.0027 | < 0.0013 | < 0.0013 | < 0.0014 | < 0.21 | < 0.0013 | < 0.0025 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0013 | < 0.0064 | < 0.0014 | < 0.0014 | < 0.0013 |
| 8260B | Vinyl chloride | 75-01-4 | MG/KG | 0.043 | 0.86 | 0.0007 | < 0.00097 | < 0.0019 | < 0.00093 | < 0.00096 | < 0.00099 | < 0.15 | < 0.00097 | < 0.0018 | < 0.00095 | < 0.00096 | < 0.00095 | < 0.00096 | < 0.0046 | < 0.00098 | < 0.00097 | < 0.00096 |
| 8260B | Xylenes (total) | 1330-20-7 | MG/KG | 210 | 210 | 10 | 0.014 J | 0.018 J | < 0.0026 | < 0.0026 | < 0.0027 | < 0.4 | 0.033 | 0.0054 J | < 0.0026 | 0.0087 J | < 0.0026 | 0.0031 J | < 0.013 | 0.0053 J | 0.0054 J | 0.0037 J |
| | **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | MG/KG | 140 | 260 | 0.3 | < 0.057 | < 0.29 | < 0.055 | < 0.056 | < 0.058 | < 0.059 | < 0.057 | < 0.27 | < 0.057 J | < 0.057 | < 0.056 | < 0.057 | < 0.058 | < 0.057 | < 0.057 | < 0.057 |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | 0.055 J | < 0.25 | < 0.049 | < 0.05 | < 0.051 | 0.16 J | 0.31 J | < 0.24 | 0.43 J | < 0.05 | < 0.05 | 0.06 J | < 0.051 | < 0.051 | < 0.05 | < 0.05 |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | NA | < 0.044 | < 0.22 | < 0.042 | < 0.043 | < 0.044 | < 0.045 | < 0.043 | < 0.2 | < 0.043 J | < 0.043 | < 0.043 | < 0.043 | < 0.044 | < 0.044 | < 0.043 | < 0.043 |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | < 0.038 | < 0.19 | < 0.037 | < 0.038 | < 0.039 | < 0.039 | < 0.038 | < 0.18 | < 0.038 J | < 0.038 | < 0.037 | < 0.038 | < 0.038 | < 0.038 | < 0.038 | < 0.038 |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | MG/KG | 6100 | 68000 | 14 | < 0.044 | < 0.22 | < 0.042 | < 0.043 | < 0.045 | < 0.045 | < 0.044 | < 0.2 | < 0.043 J | < 0.043 | < 0.043 | < 0.043 | < 0.044 | < 0.044 | < 0.043 | < 0.043 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | MG/KG | 44 | 170 | 0.008 | < 0.056 | < 0.28 | < 0.054 | < 0.055 | < 0.057 | < 0.058 | < 0.056 | < 0.26 | < 0.055 J | < 0.055 | < 0.055 | < 0.055 | < 0.057 | < 0.056 | < 0.056 | < 0.055 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | MG/KG | 180 | 2100 | 0.05 | < 0.055 | < 0.28 | < 0.053 | < 0.054 | < 0.056 | < 0.057 | < 0.055 | < 0.26 | < 0.055 J | < 0.055 | < 0.054 | < 0.055 | < 0.056 | < 0.055 | < 0.055 | < 0.055 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | MG/KG | 1200 | 14000 | 0.4 | < 0.1 | < 0.5 | < 0.096 | < 0.099 | < 0.1 | < 0.1 | < 0.1 | < 0.47 | < 0.099 J | < 0.099 | < 0.099 | < 0.099 | < 0.1 | < 0.1 | < 0.099 | < 0.099 |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | MG/KG | 120 | 1400 | 0.01 | < 0.23 | 9.6 J | < 0.22 | < 0.23 | < 0.23 | 0.77 J | 0.77 J | < 1.1 | < 0.23 J | < 0.23 | < 0.22 | < 0.23 | < 0.23 | < 0.23 | < 0.23 | < 0.23 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | MG/KG | 120 | 1400 | 0.00004 | < 0.2 | < 1 | < 0.19 | < 0.2 | < 0.2 | < 0.21 | < 0.2 | < 0.94 | < 0.2 J | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | MG/KG | 61 | 680 | 0.00003 | < 0.052 | < 0.26 | < 0.05 | < 0.051 | < 0.053 | < 0.054 | < 0.052 | < 0.24 | < 0.052 J | < 0.052 | < 0.051 | < 0.052 | < 0.053 | < 0.052 | < 0.052 | < 0.052 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | MG/KG | 3900 | 26000 | NA | < 0.04 | < 0.2 | < 0.038 | < 0.039 | < 0.041 | < 0.041 | < 0.04 | < 0.19 | < 0.039 J | < 0.039 | < 0.039 | < 0.039 | < 0.04 | < 0.04 | < 0.04 | < 0.04 |
| 8270C | 2-Chlorophenol | 95-57-8 | MG/KG | 64 | 260 | 0.2 | < 0.037 | < 0.19 | < 0.036 | < 0.037 | < 0.038 | < 0.038 | < 0.037 | < 0.17 | < 0.037 J | < 0.037 | < 0.037 | < 0.037 | < 0.038 | < 0.037 | < 0.037 | < 0.037 |
| 8270C | 2-Methylnaphthalene | 91-57-6 | MG/KG | NA | NA | NA | < 0.041 | < 0.2 | < 0.039 | < 0.04 | < 0.042 | < 0.042 | < 0.041 | 0.27 J | < 0.041 J | < 0.04 | < 0.04 | < 0.04 | < 0.041 | < 0.041 | < 0.041 | < 0.041 |
| 8270C | 2-Methylphenol | 95-48-7 | MG/KG | 3100 | 34000 | 0.8 | < 0.051 | < 0.25 | < 0.049 | < 0.05 | < 0.052 | < 0.052 | < 0.051 | < 0.24 | < 0.05 J | < 0.05 | < 0.05 | < 0.05 | < 0.051 | < 0.051 | < 0.05 | < 0.05 |
| 8270C | 2-Nitroaniline | 88-74-4 | MG/KG | 180 | 2000 | NA | < 0.054 | < 0.27 | < 0.052 | < 0.053 | < 0.055 | < 0.056 | < 0.054 | < 0.25 | < 0.054 J | < 0.054 | < 0.053 | < 0.054 | < 0.055 | < 0.054 | < 0.054 | < 0.054 |
| 8270C | 2-Nitrophenol | 88-75-5 | MG/KG | NA | NA | NA | < 0.08 | < 0.4 | < 0.077 | < 0.079 | < 0.082 | < 0.083 | < 0.08 | < 0.38 | < 0.079 J | < 0.079 | < 0.079 | < 0.079 | < 0.081 | < 0.08 | < 0.08 | < 0.08 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | MG/KG | 1.1 | 4.3 | 0.0003 | < 0.03 | < 0.15 | < 0.029 | < 0.03 | < 0.031 | < 0.031 | < 0.03 | < 0.14 | < 0.03 J | < 0.03 | < 0.03 | < 0.03 | < 0.031 | < 0.03 | < 0.03 | < 0.03 |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | MG/KG | NA | NA | NA | 1 | < 0.19 | 0.16 J | 0.58 | < 0.04 | 0.26 J | 1.6 | 8.4 | 0.27 J | 0.26 J | 0.19 J | 0.3 J | < 0.039 | 0.085 J | 0.072 J | < 0.039 |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | MG/KG | 310 | 3400 | NA | < 0.083 | < 0.41 | < 0.079 | < 0.081 | < 0.084 | < 0.085 | < 0.082 | < 0.39 | < 0.082 J | < 0.082 | < 0.081 | < 0.082 | < 0.083 | < 0.083 | < 0.082 | < 0.082 |
| 8270C | 3-Nitroaniline | 99-09-2 | MG/KG | NA | NA | NA | < 0.041 | < 0.2 | < 0.039 | < 0.04 | < 0.041 | < 0.042 | < 0.041 | < 0.19 | < 0.04 J | < 0.04 | < 0.04 | < 0.04 | < 0.041 | < 0.041 | < 0.04 | < 0.04 |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | MG/KG | NA | NA | NA | < 0.18 | 1.4 J | < 0.17 | < 0.18 | < 0.18 | < 0.19 | < 0.18 | < 0.84 | < 0.18 J | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 | < 0.18 |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | MG/KG | NA | NA | NA | < 0.039 | < 0.19 | < 0.037 | < 0.038 | < 0.039 | < 0.04 | < 0.038 | < 0.18 | < 0.038 J | < 0.038 | < 0.038 | < 0.038 | < 0.039 | < 0.039 | < 0.038 | < 0.038 |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | MG/KG | NA | NA | NA | < 0.067 | < 0.34 | < 0.065 | < 0.066 | < 0.068 | < 0.069 | < 0.067 | < 0.31 | < 0.066 J | < 0.066 | < 0.066 | < 0.066 | < 0.068 | < 0.067 | < 0.067 | < 0.067 |
| 8270C | 4-Chloroaniline | 106-47-8 | MG/KG | 240 | 2700 | 0.03 | < 0.048 | < 0.24 | < 0.046 | < 0.047 | < 0.049 | < 0.049 | 0.33 J | < 0.22 | < 0.047 J | 0.1 J | < 0.047 | < 0.047 | < 0.048 | < 0.048 | < 0.047 | < 0.047 |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | MG/KG | NA | NA | NA | < 0.033 | < 0.16 | < 0.031 | < 0.032 | < 0.033 | < 0.034 | < 0.033 | < 0.15 | < 0.032 J | < 0.032 | < 0.032 | < 0.032 | < 0.033 | < 0.033 | < 0.032 | < 0.032 |
| 8270C | 4-Nitroaniline | 100-01-6 | MG/KG | NA | NA | NA | < 0.13 | < 0.64 | < 0.12 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.6 | < 0.13 J | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 | < 0.13 |
| 8270C | 4-Nitrophenol | 100-02-7 | MG/KG | 490 | 5500 | NA | < 0.19 | < 0.96 | < 0.19 | < 0.19 | < 0.2 | < 0.2 | < 0.19 | < 0.9 | < 0.19 J | < 0.19 | < 0.19 | < 0.19 | < 0.19 | < 0.19 | < 0.19 | < 0.19 |

# Table 3
## Spring 2008 DPT Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | DPT-34(4-8') 3/29/2008 | DPT-35(12-16') 3/30/2008 | DPT-36(4-8') 3/30/2008 | DPT-37(4-8') 3/30/2008 | DPT-38(4-8') | DPT-39(12-16') 3/30/2008 | DPT-39(4-8') 3/30/2008 | DPT-4 (0-4') 3/26/2008 | DPT-40(0-4') 3/30/2008 | DPT-5 (0-4') 3/26/2008 | DPT-6 (0-4') 3/26/2008 | DPT-7 (0-4') 3/27/2008 | DPT-7 (12-16') 3/27/2008 | DPT-8 (0-4') 3/27/2008 | DPT-9 (0-4') 3/27/2008 | DPT-9 (12-16') 3/27/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Acenaphthene | 83-32-9 | MG/KG | 3700 | 33000 | 29 | < 0.044 | < 0.22 | < 0.042 | < 0.044 | < 0.045 | < 0.046 | < 0.044 | < 0.21 | < 0.044 J | < 0.044 | < 0.044 | < 0.044 | < 0.045 | < 0.044 | < 0.044 | < 0.044 |
| 8270C | Acenaphthylene | 208-96-8 | MG/KG | NA | NA | NA | < 0.042 | < 0.21 | < 0.04 | < 0.041 | < 0.043 | < 0.043 | < 0.042 | < 0.2 | < 0.041 J | < 0.041 | < 0.041 | < 0.041 | < 0.042 | < 0.042 | < 0.041 | < 0.041 |
| 8270C | Aniline | 62-53-3 | MG/KG | 85 | 340 | NA | < 0.04 | < 0.2 | < 0.039 | < 0.04 | < 0.041 | < 0.042 | < 0.04 | < 0.19 | < 0.04 J | < 0.04 | < 0.04 | < 0.04 | < 0.041 | < 0.04 | < 0.04 | < 0.04 |
| 8270C | Anthracene | 120-12-7 | MG/KG | 22000 | 100000 | 590 | < 0.031 | < 0.16 | < 0.03 | < 0.031 | < 0.032 | < 0.032 | < 0.031 | 0.4 J | < 0.031 J | < 0.031 | < 0.031 | < 0.031 | < 0.032 | < 0.031 | < 0.031 | < 0.031 |
| 8270C | Benzo(a)anthracene | 56-55-3 | MG/KG | 0.15 | 2.3 | 0.08 | < 0.025 | < 0.13 | < 0.024 | < 0.025 | < 0.026 | < 0.026 | < 0.025 | < 0.12 | < 0.025 J | < 0.025 | < 0.025 | < 0.025 | < 0.026 | < 0.025 | < 0.025 | < 0.025 |
| 8270C | Benzo(a)pyrene | 50-32-8 | MG/KG | 0.015 | 0.23 | 0.4 | < 0.029 | < 0.14 | < 0.028 | < 0.029 | < 0.03 | < 0.03 | < 0.029 | < 0.14 | < 0.029 J | < 0.029 | < 0.029 | < 0.029 | < 0.029 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | MG/KG | 0.15 | 2.3 | 0.2 | < 0.067 | < 0.33 | < 0.064 | < 0.066 | < 0.068 | < 0.069 | < 0.066 | < 0.31 | < 0.066 J | < 0.066 | < 0.065 | < 0.066 | < 0.067 | < 0.067 | < 0.066 | < 0.066 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | MG/KG | NA | NA | NA | < 0.034 | < 0.17 | < 0.033 | < 0.034 | < 0.035 | < 0.035 | < 0.034 | < 0.16 | < 0.034 J | < 0.034 | < 0.034 | < 0.034 | < 0.035 | < 0.034 | < 0.034 | < 0.034 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | MG/KG | 1.5 | 23 | 2 | < 0.051 | < 0.25 | < 0.049 | < 0.05 | < 0.052 | < 0.052 | < 0.051 | < 0.24 | < 0.05 J | < 0.05 | < 0.05 | < 0.05 | < 0.051 | < 0.051 | < 0.05 | < 0.05 |
| 8270C | Benzoic acid | 65-85-0 | MG/KG | 100000 | 100000 | 20 | < 0.15 | < 0.74 | < 0.14 | < 0.15 | < 0.15 | 0.48 J | < 0.15 | < 0.69 | < 0.15 J | < 0.15 | < 0.15 | < 0.15 | < 0.15 | < 0.15 | < 0.15 | < 0.15 |
| 8270C | Benzyl alcohol | 100-51-6 | MG/KG | 18000 | 100000 | NA | < 0.11 | < 0.53 | < 0.1 | < 0.1 | < 0.11 | < 0.11 | < 0.11 | < 0.5 | < 0.1 J | < 0.1 | < 0.1 | < 0.1 | < 0.11 | < 0.11 | < 0.11 | < 0.11 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | MG/KG | NA | NA | NA | < 0.041 | < 0.21 | < 0.04 | < 0.041 | < 0.042 | < 0.043 | < 0.041 | < 0.19 | < 0.041 J | < 0.041 | < 0.041 | < 0.041 | < 0.042 | < 0.041 | < 0.041 | < 0.041 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | MG/KG | 0.21 | 0.62 | 0.00002 | < 0.044 | < 0.22 | < 0.042 | < 0.043 | < 0.045 | < 0.045 | < 0.044 | < 0.2 | < 0.043 J | < 0.043 | < 0.043 | < 0.043 | < 0.044 | < 0.044 | < 0.043 | < 0.043 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | MG/KG | 2.9 | 8.2 | NA | < 0.035 | < 0.17 | < 0.033 | < 0.034 | < 0.035 | < 0.036 | < 0.035 | < 0.16 | < 0.034 J | < 0.034 | < 0.034 | < 0.034 | < 0.035 | < 0.035 | < 0.034 | < 0.034 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | MG/KG | 35 | 140 | 180 | 0.11 J | < 0.27 | 0.094 J | 0.086 J | 0.11 J | 0.12 J | 0.11 J | 5.2 | 0.078 J | 0.11 J | 0.13 J | 0.068 J | 0.085 J | 0.12 J | 0.086 J | 0.12 J |
| 8270C | Butyl benzyl phthalate | 85-68-7 | MG/KG | 240 | 240 | 810 | < 0.033 | < 0.17 | < 0.032 | < 0.033 | < 0.034 | < 0.034 | < 0.033 | < 0.16 | < 0.033 J | < 0.033 | < 0.033 | < 0.033 | < 0.034 | < 0.033 | < 0.033 | < 0.033 |
| 8270C | Chrysene | 218-01-9 | MG/KG | 15 | 230 | 8 | < 0.029 | < 0.14 | < 0.028 | < 0.028 | < 0.029 | < 0.03 | < 0.029 | < 0.13 | < 0.029 J | < 0.028 | < 0.028 | < 0.028 | < 0.029 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | MG/KG | 0.015 | 0.23 | 0.08 | < 0.11 | < 0.53 | < 0.1 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.5 | < 0.11 J | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 |
| 8270C | Dibenzofuran | 132-64-9 | MG/KG | 150 | 1700 | NA | < 0.046 | < 0.23 | < 0.044 | < 0.045 | < 0.047 | < 0.047 | < 0.046 | < 0.21 | < 0.045 J | < 0.045 | < 0.045 | < 0.045 | < 0.046 | < 0.046 | < 0.045 | < 0.045 |
| 8270C | Diethyl phthalate | 84-66-2 | MG/KG | 49000 | 100000 | NA | < 0.027 | < 0.14 | < 0.026 | < 0.027 | < 0.028 | < 0.028 | < 0.027 | < 0.13 | < 0.027 J | < 0.027 | < 0.027 | < 0.027 | < 0.028 | < 0.027 | < 0.027 | < 0.027 |
| 8270C | Dimethyl phthalate | 131-11-3 | MG/KG | 100000 | 100000 | NA | < 0.03 | < 0.15 | < 0.029 | < 0.03 | < 0.031 | < 0.031 | < 0.03 | < 0.14 | < 0.03 J | < 0.03 | < 0.03 | < 0.03 | < 0.031 | < 0.03 | < 0.03 | < 0.03 |
| 8270C | Di-n-butyl phthalate | 84-74-2 | MG/KG | 6100 | 68000 | 270 | < 0.031 | < 0.16 | < 0.03 | < 0.031 | < 0.032 | < 0.032 | < 0.031 | < 0.15 | 0.073 J | < 0.031 | < 0.031 | < 0.031 | < 0.032 | < 0.031 | < 0.031 | < 0.031 |
| 8270C | Di-n-octyl phthalate | 117-84-0 | MG/KG | NA | NA | 10000 | < 0.15 | < 0.77 | < 0.15 | < 0.15 | < 0.16 | < 0.16 | < 0.15 | < 0.72 | < 0.15 J | < 0.15 | < 0.15 | < 0.15 | < 0.16 | < 0.15 | < 0.15 | < 0.15 |
| 8270C | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | NA | 5.1 | **4900** | 14 | **240** | < 0.017 | 1.6 | 52 | **250** | < 0.017 J | **140** | 0.33 J | 0.54 J | < 0.017 | **240** | **100** | < 0.017 |
| 8270C | Fluoranthene | 206-44-0 | MG/KG | 2300 | 24000 | 210 | < 0.031 | < 0.16 | < 0.03 | < 0.031 | < 0.032 | < 0.032 | < 0.031 | 0.19 J | < 0.031 J | < 0.031 | 0.053 J | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 |
| 8270C | Fluorene | 86-73-7 | MG/KG | 2600 | 26000 | 28 | < 0.029 | < 0.15 | < 0.028 | < 0.029 | < 0.03 | < 0.03 | < 0.029 | < 0.14 | < 0.029 J | < 0.029 | < 0.029 | < 0.029 | < 0.03 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Hexachlorobenzene | 118-74-1 | MG/KG | 0.3 | 1.2 | 0.1 | < 0.036 | < 0.18 | < 0.034 | < 0.035 | < 0.036 | < 0.037 | < 0.036 | < 0.17 | < 0.035 J | < 0.035 | < 0.035 | < 0.035 | < 0.036 | < 0.036 | < 0.035 | < 0.035 |
| 8270C | Hexachlorobutadiene | 87-68-3 | MG/KG | 6.2 | 25 | 0.1 | < 0.052 | < 0.26 | < 0.05 | < 0.051 | < 0.053 | < 0.053 | < 0.052 | < 0.24 | < 0.051 J | < 0.051 | < 0.051 | < 0.051 | < 0.052 | < 0.052 | < 0.051 | < 0.051 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | MG/KG | 370 | 4100 | 20 | < 0.22 | < 1.1 | < 0.21 | < 0.21 | < 0.22 | < 0.22 | < 0.21 | < 1 | < 0.21 J | < 0.21 | < 0.21 | < 0.21 | < 0.22 | < 0.22 | < 0.21 | < 0.21 |
| 8270C | Hexachloroethane | 67-72-1 | MG/KG | 35 | 140 | 0.02 | < 0.055 | < 0.27 | < 0.053 | < 0.054 | < 0.056 | < 0.057 | < 0.055 | < 0.26 | < 0.054 J | < 0.054 | < 0.054 | < 0.054 | < 0.055 | < 0.055 | < 0.054 | < 0.054 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | MG/KG | 0.15 | 2.3 | 0.7 | < 0.066 | < 0.33 | < 0.063 | < 0.065 | < 0.067 | < 0.068 | < 0.066 | < 0.31 | < 0.065 J | < 0.065 | < 0.065 | < 0.065 | < 0.066 | < 0.066 | < 0.065 | < 0.065 |
| 8270C | Isophorone | 78-59-1 | MG/KG | 510 | 2000 | 0.03 | < 0.054 | < 0.27 | < 0.052 | < 0.054 | < 0.055 | < 0.056 | < 0.054 | < 0.25 | < 0.054 J | < 0.054 | < 0.054 | < 0.054 | < 0.055 | < 0.054 | < 0.054 | < 0.054 |
| 8270C | Naphthalene | 91-20-3 | MG/KG | 120 | 210 | 4 | < 0.041 | < 0.2 | < 0.039 | < 0.04 | < 0.041 | < 0.042 | < 0.04 | 2.7 | < 0.04 J | < 0.04 | < 0.04 | < 0.04 | < 0.041 | < 0.041 | < 0.04 | < 0.04 |
| 8270C | Nitrobenzene | 98-95-3 | MG/KG | 20 | 110 | 0.007 | < 0.063 | < 0.31 | < 0.06 | < 0.062 | < 0.064 | < 0.065 | < 0.062 | < 0.29 | < 0.062 J | < 0.062 | < 0.062 | < 0.062 | < 0.063 | < 0.063 | < 0.062 | < 0.062 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | MG/KG | 0.07 | 0.27 | 0.000002 | < 0.031 | < 0.15 | < 0.03 | < 0.031 | < 0.032 | < 0.032 | < 0.031 | < 0.14 | < 0.031 J | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | MG/KG | 99 | 390 | 0.06 | < 0.029 | < 0.14 | < 0.028 | < 0.029 | < 0.029 | < 0.03 | < 0.029 | < 0.14 | < 0.029 J | < 0.029 | < 0.028 | < 0.029 | < 0.029 | < 0.029 | < 0.029 | < 0.029 |
| 8270C | Pentachlorophenol | 87-86-5 | MG/KG | 3 | 10 | 0.001 | < 0.064 | < 0.32 | < 0.062 | < 0.063 | < 0.065 | < 0.066 | < 0.064 | < 0.3 | < 0.064 J | < 0.063 | < 0.063 | < 0.063 | < 0.065 | < 0.064 | < 0.064 | < 0.064 |
| 8270C | Phenanthrene | 85-01-8 | MG/KG | NA | NA | NA | < 0.028 | < 0.14 | < 0.027 | < 0.028 | < 0.029 | < 0.029 | < 0.028 | 0.36 J | < 0.028 J | < 0.028 | 0.12 J | < 0.028 | < 0.029 | < 0.028 | < 0.028 | < 0.028 |
| 8270C | Phenol | 108-95-2 | MG/KG | 18000 | 100000 | 5 | < 0.042 | < 0.21 | < 0.04 | < 0.041 | < 0.043 | < 0.043 | < 0.042 | < 0.2 | < 0.041 J | < 0.041 | < 0.041 | < 0.041 | < 0.042 | < 0.042 | < 0.041 | < 0.041 |
| 8270C | Propanil | 709-98-8 | MG/KG | 310 | 3400 | NA | < 0.035 | < 0.18 | 0.16 J | 0.07 J | < 0.036 | 1.7 | 0.12 J | < 0.17 | < 0.035 J | < 0.035 | < 0.035 | 0.09 J | < 0.036 | < 0.035 | < 0.035 | < 0.035 |
| 8270C | Pyrene | 129-00-0 | MG/KG | 2300 | 32000 | 210 | < 0.03 | < 0.15 | < 0.029 | < 0.029 | < 0.03 | < 0.031 | < 0.03 | < 0.14 | < 0.029 J | < 0.029 | 0.11 J | < 0.029 | < 0.03 | < 0.03 | < 0.03 | < 0.029 |

Notes:

| | |
|---|---|
| | Exceeds the DAF1 MSSL Standard |
| | Exceeds the Industrial Outdoor Worker MSSL Standard |
| **Bold** | Exceeds the Residential Soil MSSL Standard |
| -- | No data available for reported analyte |
| | The analyte was not detected at the concentration given. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| JH | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a high bias. |
| JL | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, with a low bias. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration |
| UB | Not detected substantially above the concentration reported in the laboratory or field blanks. For organics - 5X (10X for common laboratory contaminants) or for metals 10X. Data point considered non-detect at the reported value. |
| UBJ | Not detected substantially above the concentration reported in the laboratory or field blanks. Data point considered non-detect and the reported value is an approximate. |

# TABLE 4

Drum Vault Water Sampling Results

**Table 4**
**Drum Vault Water Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 WATER 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | UG/L | -- | 50 | 37000 | -- | -- | | 921 |
| 6020 | Antimony | 7440-36-0 | UG/L | 6 | -- | 15 | -- | -- | | 1.5 J |
| 6020 | Arsenic | 7440-38-2 | UG/L | 10 | -- | 0.045 | D004 | 5000 | | **146** |
| 6020 | Barium | 7440-39-3 | UG/L | 2000 | -- | 7300 | D005 | 100000 | | 507 |
| 6020 | Beryllium | 7440-41-7 | UG/L | 4 | -- | 73 | -- | -- | | 0.23 B |
| 6020 | Cadmium | 7440-43-9 | UG/L | 5 | -- | 18 | D006 | 1000 | | 2.8 |
| 6020 | Calcium | 7440-70-2 | UG/L | -- | -- | -- | -- | -- | | 424000 J |
| 6020 | Chromium | 7440-47-3 | UG/L | 100 | -- | -- | D007 | 5000 | | 6.1 |
| 6020 | Cobalt | 7440-48-4 | UG/L | -- | -- | 730 | -- | -- | | 83.9 |
| 6020 | Copper | 7440-50-8 | UG/L | 1300 | 1000 | 1400 | -- | -- | | 47.0 |
| 6020 | Iron | 7439-89-6 | UG/L | -- | 300 | 26000 | -- | -- | | **179000** |
| 6020 | Lead | 7439-92-1 | UG/L | 15 | -- | 15 | D008 | 5000 | | **27.7** |
| 6020 | Magnesium | 7439-95-4 | UG/L | -- | -- | -- | -- | -- | | 64800 |
| 6020 | Manganese | 7439-96-5 | UG/L | -- | 50 | 1700 | -- | -- | | **13200** |
| 6020 | Nickel | 7440-02-0 | UG/L | -- | -- | 730 | -- | -- | | 246 |
| 6020 | Potassium | 7440-09-7 | UG/L | -- | -- | -- | -- | -- | | 18000 |
| 6020 | Selenium | 7782-49-2 | UG/L | 50 | -- | 180 | D010 | 1000 | | 2.6 |
| 6020 | Silver | 7440-22-4 | UG/L | -- | 100 | 180 | D011 | 5000 | | 0.24 B |
| 6020 | Sodium | 7440-23-5 | UG/L | -- | -- | -- | -- | -- | | 519000 |
| 6020 | Thallium | 7440-28-0 | UG/L | 2 | -- | 2.6 | -- | -- | | 0.088 B |
| 6020 | Vanadium | 7440-62-2 | UG/L | -- | -- | 180 | -- | -- | | 8.0 |
| 6020 | Zinc | 7440-66-6 | UG/L | -- | 5000 | 11000 | -- | -- | | 60.5 |
| | **Organochlorine Pesticides** | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | UG/L | -- | -- | 0.28 | -- | -- | | < 0.15 |
| 8081A | 4,4'-DDE | 72-55-9 | UG/L | -- | -- | 0.2 | -- | -- | | < 0.15 |
| 8081A | 4,4'-DDT | 50-29-3 | UG/L | -- | -- | 0.2 | -- | -- | | < 0.3 |
| 8081A | Aldrin | 309-00-2 | UG/L | -- | -- | 0.004 | -- | -- | | < 0.12 |
| 8081A | alpha-BHC | 319-84-6 | UG/L | -- | -- | 0.011 | -- | -- | | **0.26 J COL** |
| 8081A | alpha-Chlordane | 5103-71-9 | UG/L | -- | -- | -- | -- | -- | | < 0.11 |
| 8081A | beta-BHC | 319-85-7 | UG/L | -- | -- | 0.037 | -- | -- | | < 0.17 |
| 8081A | Chlordane (technical) | 57-74-9 | UG/L | 2 | -- | 0.19 | D020 | 30 | | < 2.8 |
| 8081A | delta-BHC | 319-86-8 | UG/L | -- | -- | -- | -- | -- | | < 0.12 |
| 8081A | Dieldrin | 60-57-1 | UG/L | -- | -- | 0.0042 | -- | -- | | < 0.13 |
| 8081A | Endosulfan I | 959-98-8 | UG/L | -- | -- | -- | -- | -- | | < 0.12 |
| 8081A | Endosulfan II | 33213-65-9 | UG/L | -- | -- | -- | -- | -- | | < 0.14 |
| 8081A | Endosulfan sulfate | 1031-07-8 | UG/L | -- | -- | -- | -- | -- | | < 0.11 |
| 8081A | Endrin | 72-20-8 | UG/L | 2 | -- | 11 | D012 | 20 | | < 0.16 |
| 8081A | Endrin aldehyde | 7421-93-4 | UG/L | -- | -- | -- | -- | -- | | < 0.18 |

**Table 4**
**Drum Vault Water Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 WATER 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8081A | Endrin ketone | 53494-70-5 | UG/L | -- | -- | -- | -- | -- | | < 0.14 |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | UG/L | 0.2 | -- | 0.052 | D013 | 400 | | < 0.14 |
| 8081A | gamma-Chlordane | 5103-74-2 | UG/L | -- | -- | -- | -- | -- | | < 0.18 |
| 8081A | Heptachlor | 76-44-8 | UG/L | 0.4 | -- | 0.015 | D031 | 8 | | < 0.15 |
| 8081A | Heptachlor epoxide | 1024-57-3 | UG/L | 0.2 | -- | 0.0074 | -- | -- | | < 0.15 |
| 8081A | Methoxychlor | 72-43-5 | UG/L | 40 | -- | 180 | D014 | 10000 | | 11 B |
| 8081A | Toxaphene | 8001-35-2 | UG/L | 3 | -- | 0.061 | D015 | 500 | | < 7.3 |
| | **Herbicides** | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | -- | -- | | 0.36 J COL |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | UG/L | 200 | -- | 840 | -- | -- | | < 36 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | UG/L | -- | -- | 0.055 | -- | -- | | < 31 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | UG/L | 5 | -- | 0.2 | -- | -- | | < 35 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | UG/L | -- | -- | 1200 | -- | -- | | < 37 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | UG/L | 7 | -- | 340 | D029 | 700 | | < 43 |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | UG/L | 0.05 | -- | 0.0056 | -- | -- | | < 30 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | -- | -- | | **54 J** |
| 8260B | 1,2-Dichloroethane | 107-06-2 | UG/L | 5 | -- | 0.12 | D028 | 500 | | < 39 |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | UG/L | -- | -- | -- | -- | -- | | < 73 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | UG/L | 5 | -- | 0.17 | -- | -- | | < 37 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | -- | -- | | **62 J** |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | D027 | 7500 | | **650** |
| 8260B | 2-Butanone (MEK) | 78-93-3 | UG/L | -- | -- | 7100 | D035 | 200000 | | 510 |
| 8260B | 2-Hexanone | 591-78-6 | UG/L | -- | -- | -- | -- | -- | | < 27 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | UG/L | -- | -- | 2000 | -- | -- | | 480 J |
| 8260B | Acetone | 67-64-1 | UG/L | -- | -- | 5500 | -- | -- | | **91000** |
| 8260B | Benzene | 71-43-2 | UG/L | 5 | -- | 0.35 | D018 | 500 | | < 39 |
| 8260B | Bromobenzene | 108-86-1 | UG/L | -- | -- | 23 | -- | -- | | < 39 |
| 8260B | Bromochloromethane | 74-97-5 | UG/L | -- | -- | -- | -- | -- | | < 37 |
| 8260B | Bromodichloromethane | 75-27-4 | UG/L | -- | -- | 0.18 | -- | -- | | < 37 |
| 8260B | Bromoform | 75-25-2 | UG/L | -- | -- | 8.5 | -- | -- | | < 27 |
| 8260B | Bromomethane | 74-83-9 | UG/L | -- | -- | 8.7 | -- | -- | | < 72 |
| 8260B | Carbon disulfide | 75-15-0 | UG/L | -- | -- | 1000 | -- | -- | | < 38 |
| 8260B | Carbon tetrachloride | 56-23-5 | UG/L | 5 | -- | 0.17 | D019 | 500 | | < 41 |
| 8260B | Chlorobenzene | 108-90-7 | UG/L | 100 | -- | 91 | D021 | 100000 | | 67 J |
| 8260B | Chloroethane | 75-00-3 | UG/L | -- | -- | 3.9 | -- | -- | | < 45 |
| 8260B | Chloroform | 67-66-3 | UG/L | -- | -- | 0.17 | D022 | 6000 | | < 35 |
| 8260B | Chloromethane | 74-87-3 | UG/L | -- | -- | 2.1 | -- | -- | | < 48 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | UG/L | 70 | -- | 61 | -- | -- | | < 37 |

**Table 4**
**Drum Vault Water Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 WATER 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | UG/L | -- | -- | 0.4 | -- | -- | | < 31 |
| 8260B | Dibromochloromethane | 124-48-1 | UG/L | -- | -- | 0.13 | -- | -- | | < 28 |
| 8260B | Dibromomethane | 74-95-3 | UG/L | -- | -- | 61 | -- | -- | | < 41 |
| 8260B | Ethylbenzene | 100-41-4 | UG/L | 700 | -- | 1300 | -- | -- | | 50 J |
| 8260B | Methylene chloride | 75-09-2 | UG/L | 5 | -- | 4.3 | -- | -- | | **53 J** |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | UG/L | -- | -- | -- | -- | -- | | 110 J |
| 8260B | o-Xylene | 95-47-6 | UG/L | -- | -- | 1400 | -- | -- | | < 39 |
| 8260B | Styrene | 100-42-5 | UG/L | 100 | -- | 1600 | -- | -- | | < 31 |
| 8260B | Tetrachloroethene | 127-18-4 | UG/L | 5 | -- | 0.11 | D039 | 700 | | < 40 |
| 8260B | Toluene | 108-88-3 | UG/L | 1000 | -- | 2300 | -- | -- | | **6200** |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | UG/L | 100 | -- | 110 | -- | -- | | < 37 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | UG/L | -- | -- | 0.4 | -- | -- | | < 21 |
| 8260B | Trichloroethene | 79-01-6 | UG/L | 5 | -- | 0.028 | D040 | 500 | | < 45 |
| 8260B | Trichlorofluoromethane | 75-69-4 | UG/L | -- | -- | 1300 | -- | -- | | < 47 |
| 8260B | Vinyl acetate | 108-05-4 | UG/L | -- | -- | 410 | -- | -- | | < 29 |
| 8260B | Vinyl chloride | 75-01-4 | UG/L | 2 | -- | 0.015 | D043 | 200 | | < 40 |
| 8260B | Xylenes (total) | 1330-20-7 | UG/L | 10000 | -- | 200 | -- | -- | | 150 J |
| | **VOC TICs** | | | | | | | | | |
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | UG/L | -- | -- | -- | -- | -- | | < 62 |
| 8260B | None | | UG/L | -- | -- | -- | -- | -- | | < |
| **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | UG/L | 70 | -- | 8.2 | -- | -- | | **520** |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | -- | -- | | **62 J** |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | -- | -- | | **72 J** |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | D027 | 7500 | | **790** |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | UG/L | -- | -- | 3700 | D041 | 400000 | | < 20 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | UG/L | -- | -- | 6.1 | D042 | 2000 | | < 21 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | UG/L | -- | -- | 110 | -- | -- | | < 20 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | UG/L | -- | -- | 730 | -- | -- | | **1300** |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | UG/L | -- | -- | 73 | -- | -- | | < 73 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | UG/L | -- | -- | 73 | D030 | 130 | | < 57 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | UG/L | -- | -- | 37 | -- | -- | | < 20 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | UG/L | -- | -- | 490 | -- | -- | | < 29 |
| 8270C | 2-Chlorophenol | 95-57-8 | UG/L | -- | -- | 30 | -- | -- | | **41 J** |
| 8270C | 2-Methylnaphthalene | 91-57-6 | UG/L | -- | -- | -- | -- | -- | | < 19 |
| 8270C | 2-Methylphenol | 95-48-7 | UG/L | -- | -- | 1800 | D023 | 200000 | | 310 |
| 8270C | 2-Nitroaniline | 88-74-4 | UG/L | -- | -- | 110 | -- | -- | | < 23 |
| 8270C | 2-Nitrophenol | 88-75-5 | UG/L | -- | -- | -- | -- | -- | | < 21 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | UG/L | -- | -- | 0.15 | -- | -- | | < 33 |

**Table 4**
**Drum Vault Water Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 WATER 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | 3,4-Dichloroaniline | 95-76-1 | UG/L | -- | -- | -- | -- | -- | | 46000 |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | UG/L | -- | -- | 180 | -- | -- | | **230 J** |
| 8270C | 3-Nitroaniline | 99-09-2 | UG/L | -- | -- | -- | -- | -- | | < 24 |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | UG/L | -- | -- | -- | -- | -- | | < 70 |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | UG/L | -- | -- | -- | -- | -- | | < 18 |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | UG/L | -- | -- | -- | -- | -- | | < 21 |
| 8270C | 4-Chloroaniline | 106-47-8 | UG/L | -- | -- | 150 | -- | -- | | **47000** |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | UG/L | -- | -- | -- | -- | -- | | < 28 |
| 8270C | 4-Nitroaniline | 100-01-6 | UG/L | -- | -- | -- | -- | -- | | < 21 |
| 8270C | 4-Nitrophenol | 100-02-7 | UG/L | -- | -- | 290 | -- | -- | | < 80 |
| 8270C | Acenaphthene | 83-32-9 | UG/L | -- | -- | 370 | -- | -- | | < 22 |
| 8270C | Acenaphthylene | 208-96-8 | UG/L | -- | -- | -- | -- | -- | | < 18 |
| 8270C | Aniline | 62-53-3 | UG/L | -- | -- | 12 | -- | -- | | < 40 |
| 8270C | Anthracene | 120-12-7 | UG/L | -- | -- | 1800 | -- | -- | | < 22 |
| 8270C | Benzo(a)anthracene | 56-55-3 | UG/L | -- | -- | 0.03 | -- | -- | | < 22 |
| 8270C | Benzo(a)pyrene | 50-32-8 | UG/L | 0.2 | -- | 0.003 | -- | -- | | < 22 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | UG/L | -- | -- | 0.03 | -- | -- | | < 15 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | UG/L | -- | -- | -- | -- | -- | | < 15 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | UG/L | -- | -- | 0.3 | -- | -- | | < 24 |
| 8270C | Benzoic acid | 65-85-0 | UG/L | -- | -- | 150000 | -- | -- | | 6900 J |
| 8270C | Benzyl alcohol | 100-51-6 | UG/L | -- | -- | 11000 | -- | -- | | < 32 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | UG/L | -- | -- | -- | -- | -- | | < 22 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | UG/L | -- | -- | 0.0098 | -- | -- | | < 23 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | UG/L | -- | -- | 0.27 | -- | -- | | < 24 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | UG/L | 6 | -- | 4.8 | -- | -- | | < 54 |
| 8270C | Butyl benzyl phthalate | 85-68-7 | UG/L | -- | -- | 7300 | -- | -- | | < 19 |
| 8270C | Chrysene | 218-01-9 | UG/L | -- | -- | 3 | -- | -- | | < 21 |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | UG/L | -- | -- | 0.003 | -- | -- | | < 20 |
| 8270C | Dibenzofuran | 132-64-9 | UG/L | -- | -- | 12 | -- | -- | | < 21 |
| 8270C | Diethyl phthalate | 84-66-2 | UG/L | -- | -- | 29000 | -- | -- | | < 29 |
| 8270C | Dimethyl phthalate | 131-11-3 | UG/L | -- | -- | 370000 | -- | -- | | < 25 |
| 8270C | Di-n-butyl phthalate | 84-74-2 | UG/L | -- | -- | 3700 | -- | -- | | < 22 |
| 8270C | Di-n-octyl phthalate | 117-84-0 | UG/L | -- | -- | -- | -- | -- | | < 22 |
| 8270C | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | -- | -- | | **350 J** |
| 8270C | Fluoranthene | 206-44-0 | UG/L | -- | -- | 1500 | -- | -- | | < 18 |
| 8270C | Fluorene | 86-73-7 | UG/L | -- | -- | 240 | -- | -- | | < 20 |
| 8270C | Hexachlorobenzene | 118-74-1 | UG/L | 1 | -- | 0.042 | D032 | 130 | | < 29 |
| 8270C | Hexachlorobutadiene | 87-68-3 | UG/L | -- | -- | 0.86 | D033 | 500 | | < 25 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | UG/L | 50 | -- | 220 | -- | -- | | < 67 |

**Table 4**
**Drum Vault Water Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 WATER 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Hexachloroethane | 67-72-1 | UG/L | -- | -- | 4.8 | D034 | 3000 | | < 18 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | UG/L | -- | -- | 0.03 | -- | -- | | < 22 |
| 8270C | Isophorone | 78-59-1 | UG/L | -- | -- | 71 | -- | -- | | < 21 |
| 8270C | Naphthalene | 91-20-3 | UG/L | -- | -- | 6.2 | -- | -- | | < 17 |
| 8270C | Nitrobenzene | 98-95-3 | UG/L | -- | -- | 3.4 | D036 | 2000 | | < 22 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | UG/L | -- | -- | 0.0096 | -- | -- | | < 20 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | UG/L | -- | -- | 14 | -- | -- | | < 18 |
| 8270C | Pentachlorophenol | 87-86-5 | UG/L | 1 | -- | 0.56 | D037 | 100000 | | < 110 |
| 8270C | Phenanthrene | 85-01-8 | UG/L | -- | -- | -- | -- | -- | | < 20 |
| 8270C | Phenol | 108-95-2 | UG/L | -- | -- | 11000 | -- | -- | | **13000** |
| 8270C | Propanil | 709-98-8 | UG/L | -- | -- | 180 | -- | -- | | **2800** |
| 8270C | Pyrene | 129-00-0 | UG/L | -- | -- | 180 | -- | -- | | < 18 |
| 8270C | **SVOC TICs** | | | | | | | | | |
| 8270C | (4-Methoxy-phenyl)-(2-nitrocyc | | UG/L | -- | -- | -- | -- | -- | | 420 |
| 8270C | 1,2,3,5-Tetrachlorobenzene | | UG/L | -- | -- | -- | -- | -- | | 1100 |
| 8270C | 1,4-Dioxane | | UG/L | -- | -- | -- | -- | -- | | 410 |
| 8270C | 1,4-Naphthoquinone | | UG/L | -- | -- | -- | -- | -- | | 5300 |
| 8270C | 1-Naphthalenol | | UG/L | -- | -- | -- | -- | -- | | 6700 |
| 8270C | 2'-Fluoropropiophenone | | UG/L | -- | -- | -- | -- | -- | | 620 |
| 8270C | 9-Benzhydrylidene-10-anthrone | | UG/L | -- | -- | -- | -- | -- | | 840 |
| 8270C | Benzenamine, 2,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | | 6300 |
| 8270C | Benzenamine, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | | 6000 |
| 8270C | Benzene, 1,4-dichloro-2-nitro- | | UG/L | -- | -- | -- | -- | -- | | 2600 |
| 8270C | Benzene, methoxy- | | UG/L | -- | -- | -- | -- | -- | | 11000 |
| 8270C | Benzene,-1-nitro-2,5-dichloro | | UG/L | -- | -- | -- | -- | -- | | 990 |
| 8270C | Benzeneacetic acid, 3-hydro | | UG/L | -- | -- | -- | -- | -- | | 470 |
| 8270C | Benzoic acid, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | | 15000 |
| 8270C | Benzoic acid, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | | 1500 |
| 8270C | Carbaryl | | UG/L | -- | -- | -- | -- | -- | | 36000 |
| 8270C | o-Chloroaniline hydrochloride | | UG/L | -- | -- | -- | -- | -- | | 11000 |
| 8270C | Pentachlorobenzene | | UG/L | -- | -- | -- | -- | -- | | 57 |
| 8270C | Unknown | | UG/L | -- | -- | -- | -- | -- | | 800 |

Notes:

| | |
|---|---|
| | Exceeds the primary Drinking Water Standard |
| | Exceed the Secondary Drinking Water Standard |
| **Bold** | Exceeds the Region 6 Tap Water MSSL |
| -- | No data available for reported analyte |
| | is the approximate concentration of the analyte in the sample. |
| NA | No MSSL is published for the analyte |

# TABLE 5

Drum Vault Soil Sampling Results

DRAFT

# Table 5
## Drum Vault Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 VAULT 7/9/2008 | VAULT HOLE.2 7/9/2008 | VAULT HOLE.3 7/10/2008 | VAULT HOLE.4 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | MG/KG | 76000 | 100000 | -- | -- | -- | | 5030 J | 3030 J | 9760 J | 2290 J |
| 6020 | Antimony | 7440-36-0 | MG/KG | 31 | 450 | 0.3 | -- | -- | | 0.45 B J | 0.054 B J | < 0.042 | < 0.031 |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 0.39 | 1.8 | 1 | D004 | 5000 | | **13.9** | **2.9** | **8.2** | **43.6** |
| 6020 | Arsenic | 7440-38-2 | MG/KG | 22 | 280 | -- | D004 | 5000 | | 13.9 | 2.9 | 8.2 | **43.6** |
| 6020 | Barium | 7440-39-3 | MG/KG | 16000 | 100000 | 82 | D005 | 100000 | | 65.6 J | 37.4 J | 126 J | 30.9 J |
| 6020 | Beryllium | 7440-41-7 | MG/KG | 150 | 2200 | 3 | -- | -- | | 0.27 B | 0.17 B | 0.49 B | 0.12 B |
| 6020 | Cadmium | 7440-43-9 | MG/KG | 39 | 560 | 0.4 | D006 | 1000 | | 0.14 B | 0.076 B | 0.19 B | 0.056 B |
| 6020 | Calcium | 7440-70-2 | MG/KG | -- | -- | -- | -- | -- | | 7720 J | 6630 J | 5970 J | 12500 J |
| 6020 | Chromium | 7440-47-3 | MG/KG | 210 | 500 | 2 | D007 | 5000 | | 7.6 J | 7.6 J | 14.0 J | 4.6 J |
| 6020 | Cobalt | 7440-48-4 | MG/KG | 900 | 2100 | -- | -- | -- | | 10.3 | 5.5 | 16.9 | 6.9 |
| 6020 | Copper | 7440-50-8 | MG/KG | 2900 | 42000 | -- | -- | -- | | 5.5 | 3.3 | 13.6 | 2.3 |
| 6020 | Iron | 7439-89-6 | MG/KG | 55000 | 100000 | -- | -- | -- | | 7690 | 6900 | 16200 | 4460 |
| 6020 | Lead | 7439-92-1 | MG/KG | 400 | 800 | -- | D008 | 5000 | | 5.3 J | 4.1 J | 10.4 J | 3.5 J |
| 6020 | Magnesium | 7439-95-4 | MG/KG | -- | -- | -- | -- | -- | | 2120 | 2310 | 3330 | 1700 |
| 6020 | Manganese | 7439-96-5 | MG/KG | 3200 | 35000 | -- | -- | -- | | 194 | 132 | 484 | 69.0 |
| 6020 | Nickel | 7440-02-0 | MG/KG | 1600 | 23000 | 7 | -- | -- | | 11.5 | 12.8 | 19.9 | 8.1 |
| 6020 | Potassium | 7440-09-7 | MG/KG | -- | -- | -- | -- | -- | | 723 B | 380 B | 1440 | 413 B |
| 6020 | Selenium | 7782-49-2 | MG/KG | 390 | 5700 | 0.3 | D010 | 1000 | | 0.21 B | 0.20 B | 0.30 B | < 0.1 |
| 6020 | Silver | 7440-22-4 | MG/KG | 390 | 5700 | 2 | D011 | 5000 | | 0.033 B J | 0.025 B J | 0.033 B J | 0.018 B J |
| 6020 | Sodium | 7440-23-5 | MG/KG | -- | -- | -- | -- | -- | | 356 B | 241 B | 568 B | 188 B |
| 6020 | Thallium | 7440-28-0 | MG/KG | 5.5 | 80 | 0.4 | -- | -- | | 0.11 B | 0.057 B | 0.26 B | 0.041 B |
| 6020 | Vanadium | 7440-62-2 | MG/KG | 390 | 5700 | 300 | -- | -- | | 14.0 J | 10.2 J | 28.8 J | 7.3 J |
| 6020 | Zinc | 7440-66-6 | MG/KG | 23000 | 100000 | 620 | -- | -- | | 28.1 | 24.3 | 55.4 | 15.6 |
| | **Organochlorine Pesticides** | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | MG/KG | 2.4 | 11 | 0.8 | -- | -- | | < 0.067 | < 32 | < 0.65 | < 0.64 |
| 8081A | 4,4'-DDE | 72-55-9 | MG/KG | 1.7 | 7.8 | 3 | -- | -- | | < 0.029 | < 14 | < 0.28 | < 0.28 |
| 8081A | 4,4'-DDT | 50-29-3 | MG/KG | 1.7 | 7.8 | 2 | -- | -- | | < 0.072 | < 35 | < 0.71 | < 0.69 |
| 8081A | Aldrin | 309-00-2 | MG/KG | 0.029 | 0.11 | 0.02 | -- | -- | | < 0.031 | < 15 | < 0.3 | < 0.29 |
| 8081A | alpha-BHC | 319-84-6 | MG/KG | 0.09 | 0.4 | 0.00003 | -- | -- | | < 0.026 | < 13 | < 0.26 | < 0.25 |
| 8081A | beta-BHC | 319-85-7 | MG/KG | 0.32 | 1.4 | 0.0001 | -- | -- | | < 0.035 | < 17 | < 0.34 | < 0.33 |
| 8081A | Chlordane (technical) | 57-74-9 | MG/KG | 1.6 | 7.2 | 0.5 | D020 | 30 | | < 0.96 | < 460 | < 9.3 | < 9.1 |
| 8081A | Dieldrin | 60-57-1 | MG/KG | 0.03 | 0.12 | 0.0002 | -- | -- | | < 0.026 | < 12 | < 0.25 | < 0.25 |
| 8081A | Endrin | 72-20-8 | MG/KG | 18 | 210 | 0.05 | D012 | 20 | | < 0.038 | < 18 | < 0.37 | < 0.36 |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | MG/KG | 0.44 | 1.9 | 0.0005 | D013 | 400 | | < 0.018 | < 8.5 | < 0.17 | 0.27 J |
| 8081A | Heptachlor | 76-44-8 | MG/KG | 0.11 | 0.43 | 1 | D031 | 8 | | < 0.026 | < 13 | < 0.26 | < 0.25 |
| 8081A | Heptachlor epoxide | 1024-57-3 | MG/KG | 0.053 | 0.21 | 0.03 | -- | -- | | < 0.052 | < 25 | < 0.51 | < 0.5 |
| 8081A | Methoxychlor | 72-43-5 | MG/KG | 310 | 3400 | 8 | D014 | 10000 | | 2.5 | **910** | 36 | 26 |
| 8081A | Toxaphene | 8001-35-2 | MG/KG | 0.44 | 1.7 | 2 | D015 | 500 | | < 1.9 | < 940 | < 19 | < 18 |
| | **Herbicides** | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | -- | -- | -- | | 0.32 B | 0.085 B | 0.012 J B COL | < 0.022 |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | MG/KG | 1400 | 1400 | 0.1 | -- | -- | | < 0.00093 | < 12 | < 1.2 | < 6 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | MG/KG | 0.38 | 0.97 | 0.0002 | -- | -- | | < 0.0038 | < 17 | < 1.7 | < 8.3 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | MG/KG | 0.84 | 2.1 | 0.0009 | -- | -- | | < 0.00063 | < 14 | < 1.4 | < 6.7 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | MG/KG | 850 | 2300 | 1 | -- | -- | | < 0.00075 | < 13 | < 1.3 | < 6.4 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | MG/KG | 280 | 470 | 0.003 | D029 | 700 | | < 0.001 | < 13 | < 1.3 | < 6.6 |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | MG/KG | 0.028 | 0.07 | -- | -- | -- | | < 0.00091 | < 15 | < 1.5 | < 7.3 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | | < 0.0021 | < 14 | 3.5 | 17 |
| 8260B | 1,2-Dichloroethane | 107-06-2 | MG/KG | 0.35 | 0.84 | 0.001 | D028 | 500 | | < 0.00092 | < 14 | < 1.4 | < 7.1 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | MG/KG | 0.35 | 0.85 | 0.001 | -- | -- | | < 0.00082 | < 15 | < 1.5 | < 7.5 |

# Table 5
## Drum Vault Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 VAULT 7/9/2008 | VAULT HOLE.2 7/9/2008 | VAULT HOLE.3 7/10/2008 | VAULT HOLE.4 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | -- | -- | -- | | 0.0015 J | < 13 | < 1.3 | < 6.2 |
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | D027 | 7500 | | 0.013 | < 13 | < 1.3 | **7.0 J** |
| 8260B | 2-Butanone (MEK) | 78-93-3 | MG/KG | 32000 | 34000 | -- | D035 | 200000 | | < 0.0022 | < 26 | < 2.6 | < 13 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | MG/KG | 5800 | 17000 | -- | -- | -- | | < 0.002 | < 17 | 24 | 21 J |
| 8260B | Acetone | 67-64-1 | MG/KG | 14000 | 60000 | 0.8 | -- | -- | | 0.098 | 740 | 1300 | 270 |
| 8260B | Benzene | 71-43-2 | MG/KG | 0.66 | 1.6 | 0.002 | D018 | 500 | | < 0.00081 | < 14 | < 1.4 | < 7.1 |
| 8260B | Bromobenzene | 108-86-1 | MG/KG | 73 | 120 | -- | -- | -- | | < 0.0007 | < 14 | < 1.4 | < 6.7 |
| 8260B | Bromodichloromethane | 75-27-4 | MG/KG | 1 | 2.6 | 0.03 | -- | -- | | < 0.00075 | < 16 | < 1.6 | < 7.7 |
| 8260B | Bromoform | 75-25-2 | MG/KG | 62 | 240 | 0.04 | -- | -- | | < 0.0013 | < 22 | < 2.2 | < 11 |
| 8260B | Bromomethane | 74-83-9 | MG/KG | 3.9 | 15 | 0.01 | -- | -- | | < 0.00079 | < 13 | < 1.3 | < 6.4 |
| 8260B | Carbon disulfide | 75-15-0 | MG/KG | 720 | 720 | 2 | -- | -- | | < 0.00099 | < 12 | < 1.2 | < 6 |
| 8260B | Carbon tetrachloride | 56-23-5 | MG/KG | 0.24 | 0.58 | 0.003 | D019 | 500 | | < 0.0014 | < 13 | < 1.3 | < 6.6 |
| 8260B | Chlorobenzene | 108-90-7 | MG/KG | 270 | 500 | 0.07 | D021 | 100000 | | < 0.0007 | < 13 | < 1.3 | < 6.3 |
| 8260B | Chloroethane | 75-00-3 | MG/KG | 3 | 7.2 | -- | -- | -- | | < 0.00084 | < 13 | < 1.3 | < 6.4 |
| 8260B | Chloroform | 67-66-3 | MG/KG | 0.25 | 0.58 | 0.03 | D022 | 6000 | | < 0.00088 | < 12 | < 1.2 | < 6 |
| 8260B | Chloromethane | 74-87-3 | MG/KG | 1.3 | 3 | -- | -- | -- | | < 0.00075 | < 14 | < 1.4 | < 6.9 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | MG/KG | 43 | 160 | 0.02 | -- | -- | | < 0.00076 | < 13 | < 1.3 | < 6.2 |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | | < 0.0007 | < 14 | < 1.4 | < 7 |
| 8260B | Dibromochloromethane | 124-48-1 | MG/KG | 1 | 2.6 | 0.02 | -- | -- | | < 0.00079 | < 13 | < 1.3 | < 6.4 |
| 8260B | Dibromomethane | 74-95-3 | MG/KG | 140 | 590 | -- | -- | -- | | < 0.0011 | < 15 | < 1.5 | < 7.3 |
| 8260B | Ethylbenzene | 100-41-4 | MG/KG | 230 | 230 | 0.7 | -- | -- | | < 0.001 | < 13 | 11 | 40 |
| 8260B | Methylene chloride | 75-09-2 | MG/KG | 8.9 | 22 | 0.001 | -- | -- | | < 0.0011 | < 13 | < 1.3 | < 6.6 |
| 8260B | o-Xylene | 95-47-6 | MG/KG | 280 | 280 | 9 | -- | -- | | < 0.00069 | < 12 | 27 | 21 |
| 8260B | Styrene | 100-42-5 | MG/KG | 1700 | 1700 | 0.2 | -- | -- | | < 0.00064 | < 13 | < 1.3 | < 6.3 |
| 8260B | Tetrachloroethene | 127-18-4 | MG/KG | 0.55 | 1.7 | 0.003 | D039 | 700 | | 0.010 | < 14 | < 1.4 | < 6.9 |
| 8260B | Toluene | 108-88-3 | MG/KG | 520 | 520 | 0.6 | -- | -- | | 0.0024 J | 510 | 490 | 420 |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | MG/KG | 120 | 200 | 0.03 | -- | -- | | < 0.00083 | < 12 | < 1.2 | < 6.1 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | MG/KG | 0.7 | 1.8 | 0.0002 | -- | -- | | < 0.00077 | < 13 | < 1.3 | < 6.3 |
| 8260B | Trichloroethene | 79-01-6 | MG/KG | 0.043 | 0.1 | 0.003 | D040 | 500 | | < 0.0011 | < 13 | < 1.3 | < 6.5 |
| 8260B | Trichlorofluoromethane | 75-69-4 | MG/KG | 390 | 1400 | -- | -- | -- | | < 0.0012 | < 13 | < 1.3 | < 6.3 |
| 8260B | Vinyl acetate | 108-05-4 | MG/KG | 430 | 1600 | 8 | -- | -- | | < 0.0013 | < 19 | < 1.9 | < 9.6 |
| 8260B | Vinyl chloride | 75-01-4 | MG/KG | 0.043 | 0.86 | 0.0007 | D043 | 200 | | < 0.00092 | < 13 | < 1.3 | < 6.6 |
| 8260B | Xylenes (total) | 1330-20-7 | MG/KG | 210 | 210 | 10 | -- | -- | | < 0.0026 | 46 J | 120 | 140 |
| 8260B | **VOC TICs** | | | | | | | | | | | | |
| 8260B | 3-Penten-2-one, 4-methyl- | 141-79-7 | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 190 | -- |
| 8260B | Benzene, 1,2,3-trimethyl- | 536-73-8 | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 39 |
| 8260B | Benzene, 1,2,4-trichloro- | 120-82-1 | MG/KG | 140 | 260 | 0.3 | -- | -- | | -- | -- | -- | 42 |
| 8260B | Benzene, 1,3,5-trimethyl- | 108-67-8 | MG/KG | 21 | 78 | -- | -- | -- | | -- | -- | -- | 15 |
| 8260B | Benzene, 1-ethyl-2-methyl- | 611-14-3 | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 42 |
| 8260B | Benzene, methoxy- | 100-66-3 | MG/KG | -- | -- | -- | -- | -- | | -- | 38 | -- | -- |
| 8260B | Benzoic acid, 3-methyl-, methyl ester | 99-36-5 | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 29 |
| 8260B | None | | MG/KG | -- | -- | -- | -- | -- | | < | -- | -- | -- |
| | **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | MG/KG | 140 | 260 | 0.3 | -- | -- | | 0.66 | 1.9 | 5.2 | 3.6 |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | MG/KG | 280 | 370 | 0.9 | -- | -- | | 0.068 J | 1.7 | 1.6 J | 0.98 |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | MG/KG | 69 | 140 | -- | -- | -- | | 0.056 J | < 0.041 | < 0.41 | < 0.04 |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | MG/KG | 3.2 | 8.1 | 0.1 | D027 | 7500 | | 0.55 | 0.18 J | 0.43 J | 0.50 |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | MG/KG | 6100 | 68000 | 14 | D041 | 400000 | | < 0.042 | < 0.041 | < 0.41 | < 0.04 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | MG/KG | 44 | 170 | 0.008 | D042 | 2000 | | < 0.054 | < 0.052 | < 0.52 | < 0.051 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | MG/KG | 180 | 2100 | 0.05 | -- | -- | | < 0.053 | < 0.052 | < 0.52 | < 0.051 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | MG/KG | 1200 | 14000 | 0.4 | -- | -- | | < 0.096 | < 0.094 | < 0.94 | < 0.092 |

# Table 5
## Drum Vault Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 VAULT 7/9/2008 | VAULT HOLE.2 7/9/2008 | VAULT HOLE.3 7/10/2008 | VAULT HOLE.4 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | 2,4-Dinitrophenol | 51-28-5 | MG/KG | 120 | 1400 | 0.01 | -- | -- | | < 0.22 | < 0.21 | < 2.1 | < 0.21 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | MG/KG | 120 | 1400 | 0.00004 | D030 | 130 | | < 0.19 | < 0.19 | < 1.9 | < 0.18 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | MG/KG | 61 | 680 | 0.00003 | -- | -- | | < 0.05 | < 0.049 | < 0.49 | < 0.048 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | MG/KG | 3900 | 26000 | -- | -- | -- | | < 0.038 | < 0.037 | < 0.37 | < 0.037 |
| 8270C | 2-Chlorophenol | 95-57-8 | MG/KG | 64 | 260 | 0.2 | -- | -- | | < 0.036 | < 0.035 | < 0.35 | < 0.034 |
| 8270C | 2-Methylphenol | 95-48-7 | MG/KG | 3100 | 34000 | 0.8 | D023 | 200000 | | < 0.049 | 0.89 | < 0.48 | < 0.047 |
| 8270C | 2-Nitroaniline | 88-74-4 | MG/KG | 180 | 2000 | -- | -- | -- | | < 0.052 | < 0.051 | < 0.51 | < 0.05 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | MG/KG | 1.1 | 4.3 | 0.0003 | -- | -- | | < 0.029 | < 0.028 | < 0.29 | < 0.028 |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | MG/KG | 310 | 3400 | -- | -- | -- | | < 0.079 | 0.33 J | < 0.77 | 0.12 J |
| 8270C | 4-Chloroaniline | 106-47-8 | MG/KG | 240 | 2700 | 0.03 | -- | -- | | 11 | 5.0 | < 0.45 | < 0.044 |
| 8270C | 4-Nitrophenol | 100-02-7 | MG/KG | 490 | 5500 | -- | -- | -- | | < 0.19 | < 0.18 | < 1.8 | < 0.18 |
| 8270C | Acenaphthene | 83-32-9 | MG/KG | 3700 | 33000 | 29 | -- | -- | | < 0.043 | < 0.041 | < 0.41 | < 0.041 |
| 8270C | Aniline | 62-53-3 | MG/KG | 85 | 340 | -- | -- | -- | | < 0.039 | < 0.038 | < 0.38 | 0.79 |
| 8270C | Anthracene | 120-12-7 | MG/KG | 22000 | 100000 | 590 | -- | -- | | < 0.03 | < 0.029 | < 0.29 | < 0.029 |
| 8270C | Benzo(a)anthracene | 56-55-3 | MG/KG | 0.15 | 2.3 | 0.08 | -- | -- | | < 0.024 | < 0.024 | < 0.24 | < 0.023 |
| 8270C | Benzo(a)pyrene | 50-32-8 | MG/KG | 0.015 | 0.23 | 0.4 | -- | -- | | < 0.028 | < 0.027 | < 0.27 | < 0.027 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | MG/KG | 0.15 | 2.3 | 0.2 | -- | -- | | < 0.064 | < 0.062 | < 0.62 | < 0.061 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | MG/KG | -- | -- | -- | -- | -- | | < 0.033 | < 0.032 | < 0.32 | < 0.031 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | MG/KG | 1.5 | 23 | 2 | -- | -- | | < 0.049 | < 0.047 | < 0.47 | < 0.046 |
| 8270C | Benzoic acid | 65-85-0 | MG/KG | 100000 | 100000 | 20 | -- | -- | | 0.58 J | 2.2 | 19 J | 1.1 J |
| 8270C | Benzyl alcohol | 100-51-6 | MG/KG | 18000 | 100000 | -- | -- | -- | | < 0.1 | < 0.099 | < 0.99 | < 0.097 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | MG/KG | -- | -- | -- | -- | -- | | < 0.04 | < 0.039 | < 0.39 | < 0.038 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | MG/KG | 0.21 | 0.62 | 0.00002 | -- | -- | | < 0.042 | < 0.041 | < 0.41 | < 0.04 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | MG/KG | 2.9 | 8.2 | -- | -- | -- | | < 0.033 | < 0.032 | < 0.33 | < 0.032 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | MG/KG | 35 | 140 | 180 | -- | -- | | 0.13 J | 0.53 | 0.54 J | 0.71 |
| 8270C | Butyl benzyl phthalate | 85-68-7 | MG/KG | 240 | 240 | 810 | -- | -- | | < 0.032 | < 0.031 | < 0.31 | < 0.031 |
| 8270C | Chrysene | 218-01-9 | MG/KG | 15 | 230 | 8 | -- | -- | | 0.038 J B | < 0.027 | 0.47 J B | 0.048 J B |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | MG/KG | 0.015 | 0.23 | 0.08 | -- | -- | | < 0.1 | < 0.1 | < 1 | < 0.098 |
| 8270C | Dibenzofuran | 132-64-9 | MG/KG | 150 | 1700 | -- | -- | -- | | < 0.044 | < 0.043 | < 0.43 | < 0.042 |
| 8270C | Diethyl phthalate | 84-66-2 | MG/KG | 49000 | 100000 | -- | -- | -- | | < 0.026 | < 0.026 | < 0.26 | < 0.025 |
| 8270C | Dimethyl phthalate | 131-11-3 | MG/KG | 100000 | 100000 | -- | -- | -- | | < 0.029 | < 0.028 | 6.7 | < 0.028 |
| 8270C | Di-n-butyl phthalate | 84-74-2 | MG/KG | 6100 | 68000 | 270 | -- | -- | | < 0.03 | < 0.029 | < 0.29 | 0.030 J |
| 8270C | Di-n-octyl phthalate | 117-84-0 | MG/KG | -- | -- | 10000 | -- | -- | | < 0.15 | 0.98 | < 1.4 | < 0.14 |
| 8270C | Dinoseb | 88-85-7 | MG/KG | 61 | 680 | -- | -- | -- | | 2.5 | 1.8 | 3.3 J | 0.34 J |
| 8270C | Fluoranthene | 206-44-0 | MG/KG | 2300 | 24000 | 210 | -- | -- | | < 0.03 | < 0.029 | < 0.29 | < 0.029 |
| 8270C | Fluorene | 86-73-7 | MG/KG | 2600 | 26000 | 28 | -- | -- | | < 0.028 | 0.075 J | < 0.28 | < 0.027 |
| 8270C | Hexachlorobenzene | 118-74-1 | MG/KG | 0.3 | 1.2 | 0.1 | D032 | 130 | | < 0.034 | < 0.033 | < 0.33 | < 0.033 |
| 8270C | Hexachlorobutadiene | 87-68-3 | MG/KG | 6.2 | 25 | 0.1 | D033 | 500 | | < 0.05 | < 0.048 | < 0.48 | < 0.047 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | MG/KG | 370 | 4100 | 20 | -- | -- | | < 0.21 | < 0.2 | < 2 | < 0.2 |
| 8270C | Hexachloroethane | 67-72-1 | MG/KG | 35 | 140 | 0.02 | D034 | 3000 | | < 0.053 | < 0.051 | < 0.51 | < 0.05 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | MG/KG | 0.15 | 2.3 | 0.7 | -- | -- | | < 0.063 | < 0.061 | < 0.62 | < 0.06 |
| 8270C | Isophorone | 78-59-1 | MG/KG | 510 | 2000 | 0.03 | -- | -- | | < 0.052 | 0.27 J | 1.1 J | 0.42 |
| 8270C | Naphthalene | 91-20-3 | MG/KG | 120 | 210 | 4 | -- | -- | | < 0.039 | < 0.038 | < 0.38 | < 0.037 |
| 8270C | Nitrobenzene | 98-95-3 | MG/KG | 20 | 110 | 0.007 | D036 | 2000 | | < 0.06 | < 0.058 | < 0.59 | < 0.057 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | MG/KG | 0.07 | 0.27 | 0.000002 | -- | -- | | < 0.03 | < 0.029 | < 0.29 | < 0.028 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | MG/KG | 99 | 390 | 0.06 | -- | -- | | < 0.028 | < 0.027 | < 0.27 | < 0.027 |
| 8270C | Pentachlorophenol | 87-86-5 | MG/KG | 3 | 10 | 0.001 | D037 | 100000 | | < 0.062 | < 0.06 | < 0.6 | < 0.059 |
| 8270C | Phenanthrene | 85-01-8 | MG/KG | -- | -- | -- | -- | -- | | < 0.027 | < 0.026 | < 0.26 | < 0.026 |
| 8270C | Phenol | 108-95-2 | MG/KG | 18000 | 100000 | 5 | -- | -- | | 0.52 | 1.3 | 0.45 J | 0.25 J |
| 8270C | Propanil | 709-98-8 | MG/KG | 310 | 3400 | -- | -- | -- | | 0.57 | 160 | 260 | 190 |
| 8270C | Pyrene | 129-00-0 | MG/KG | 2300 | 32000 | 210 | -- | -- | | < 0.029 | < 0.028 | < 0.28 | < 0.027 |

# Table 5
## Drum Vault Soil Sampling Results
## Cedar Chemical Facility
## Helena-West Helena, AR
## Project 13636

| Analytical Method | Analyte | CASRN | Units | Residential Soil (mg/kg) | Industrial Outdoor Worker Soil (mg/kg) | DAF1 (mg/kg) | Haz waste Code | TCLP Reg Number(ug/l) | Sample ID Date Sampled | HOLE .1 VAULT 7/9/2008 | VAULT HOLE.2 7/9/2008 | VAULT HOLE.3 7/10/2008 | VAULT HOLE.4 7/9/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | **SVOC TICs** | | | | | | | | | | | | |
| 8270C | 1,2,3,5-Tetrachlorobenzene | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 19 | -- |
| 8270C | 1,2,4,5-Tetrachlorobenzene | | MG/KG | -- | -- | -- | -- | -- | | 1.0 | 1.1 | 5.7 | 3.9 |
| 8270C | 1,4-Dioxane | | MG/KG | -- | -- | -- | -- | -- | | -- | 0.34 | -- | 0.10 |
| 8270C | 1-Buten-4-ol, 3-methyl-4-(4-me | | MG/KG | -- | -- | -- | -- | -- | | -- | 2.5 | -- | -- |
| 8270C | 1-Methylnaphthalene | | MG/KG | -- | -- | -- | -- | -- | | -- | 0.021 | 0.049 | 0.018 |
| 8270C | 1-Naphthalenol | | MG/KG | -- | -- | -- | -- | -- | | 0.47 | -- | -- | -- |
| 8270C | 2,2-Dichloro-1,1-bis(4-meth | | MG/KG | -- | -- | -- | -- | -- | | 1.8 | 28 | -- | 1.8 |
| 8270C | 2,3-Dichloro-1,4,5,8-tetraaza- | | MG/KG | -- | -- | -- | -- | -- | | 2.2 | -- | -- | -- |
| 8270C | 2,4-Dichloro-6-nitroaniline | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 0.45 |
| 8270C | 2,6-Dichloro-4-nitroaniline | | MG/KG | -- | -- | -- | -- | -- | | -- | 0.85 | -- | -- |
| 8270C | 2,6-Dichlorophenol | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 0.16 |
| 8270C | 4,7-Dichloro-3-methylquinoline | | MG/KG | -- | -- | -- | -- | -- | | -- | 1.0 | -- | -- |
| 8270C | Acetophenone | | MG/KG | -- | -- | -- | -- | -- | | -- | 0.096 | -- | -- |
| 8270C | Benzenamine, 2,5-dichloro- | | MG/KG | -- | -- | -- | -- | -- | | 1.9 | -- | -- | -- |
| 8270C | Benzenamine, 3,5-dichloro- | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 6.9 |
| 8270C | Benzene, 1,2-dichloro-3-nit | | MG/KG | -- | -- | -- | -- | -- | | -- | 450 | -- | -- |
| 8270C | Benzene, 1,2-dichloro-4-nitro- | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 270 |
| 8270C | Benzene, 1,3-Dimethyl- | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 3.8 |
| 8270C | Benzene, 1,4-dichloro-2-nitro- | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 57 | 34 |
| 8270C | Benzene, methoxy- | | MG/KG | -- | -- | -- | -- | -- | | -- | 27 | -- | -- |
| 8270C | Benzene,-1-nitro-2,5-dichloro | | MG/KG | -- | -- | -- | -- | -- | | 0.88 | 45 | 9.6 | -- |
| 8270C | Benzoic acid, 2,3,5-trichloro- | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 15 | -- |
| 8270C | Benzoic acid, 2-methoxy-4-meth | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 7.2 | -- |
| 8270C | Benzoic acid, 3,5-bis(1,1-dime | | MG/KG | -- | -- | -- | -- | -- | | 0.36 | -- | -- | -- |
| 8270C | Benzoic acid, 4-methyl- | | MG/KG | -- | -- | -- | -- | -- | | 1.8 | -- | -- | -- |
| 8270C | Benzoic acid, 4-methyl-, hydra | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | -- | 34 |
| 8270C | Benzoic acid, 4-methyl-, methy | | MG/KG | -- | -- | -- | -- | -- | | -- | 11 | 390 | 71 |
| 8270C | Benzoic acid, methyl ester | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 60 | 6.9 |
| 8270C | Carbaryl | | MG/KG | -- | -- | -- | -- | -- | | 0.65 | -- | -- | -- |
| 8270C | Diazene, bis(3,4-dichloropheny | | MG/KG | -- | -- | -- | -- | -- | | 2.9 | -- | -- | -- |
| 8270C | Dimethyl terephthalate | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 23 | 1.1 |
| 8270C | Dodecanoic acid | | MG/KG | -- | -- | -- | -- | -- | | 0.55 | -- | -- | -- |
| 8270C | Eicosane | | MG/KG | -- | -- | -- | -- | -- | | 0.53 | -- | -- | -- |
| 8270C | Erucylamide | | MG/KG | -- | -- | -- | -- | -- | | 1.4 | -- | -- | -- |
| 8270C | Ethanone, 2-hydroxy-1,2-bis | | MG/KG | -- | -- | -- | -- | -- | | -- | 2.1 | -- | -- |
| 8270C | Heneicosane | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 26 | -- |
| 8270C | Heptadecane | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 9.0 | -- |
| 8270C | Methoxychlor | | MG/KG | -- | -- | -- | -- | -- | | 4.3 | -- | 13 | -- |
| 8270C | Morpholine, 4-propionyl- | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 21 | -- |
| 8270C | N-Nitrosomorpholine | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 0.45 | -- |
| 8270C | o-Chloroaniline hydrochloride | | MG/KG | -- | -- | -- | -- | -- | | 1.0 | -- | -- | -- |
| 8270C | Pentachlorobenzene | | MG/KG | -- | -- | -- | -- | -- | | 0.42 | 0.54 | 4.2 | 2.5 |
| 8270C | Quinoline, 7-chloro-2-methyl- | | MG/KG | -- | -- | -- | -- | -- | | -- | 13 | -- | -- |
| 8270C | Tetratriacontane | | MG/KG | -- | -- | -- | -- | -- | | -- | -- | 18 | -- |
| 8270C | Unknown | | MG/KG | -- | -- | -- | -- | -- | | 1.7 | 0.89 | 10 | 0.66 |

Notes:

| | |
|---|---|
| | Exceeds the DAF1 MSSL Standard |
| | Exceeds the Industrial Outdoor Worker MSSL Standard |
| **Bold** | Exceeds the Residential Soil MSSL Standard |
| -- | No data available for reported analyte |

# TABLE 6

Summer 2008 Groundwater Sampling Results

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 1MW-1 7/9/2008 | 1MW-2 7/10/2008 | 1MW-3 7/10/2008 | 1MW-4 7/10/2008 | 1MW-5 7/9/2008 | 1MW-6 7/9/2008 | 1MW-7 7/10/2008 | 2MW-1 7/13/2008 | 2MW-2 7/9/2008 | 2MW-3 7/10/2008 | 2MW-4 7/12/2008 | 2MW-5 7/10/2008 | 2MW-6 7/11/2008 | 2MW-7 7/11/2008 | 4MW-1 7/13/2008 | 4MW-3 7/12/2008 | 4MW-4 7/8/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | UG/L | -- | 50 | 37000 | 477 | < 30.3 | < 30.3 | < 30.3 | < 30.3 | 4710 | 230 | < 30.3 | < 30.3 | < 30.3 | 74.4 | < 30.3 | 105 | 71.2 | < 30.3 | < 30.3 | 338 |
| 6020 | Antimony | 7440-36-0 | UG/L | 6 | -- | 15 | 0.16 B J | 0.10 B J | 0.16 B J | 0.60 B J | 0.15 B J | 0.30 B J | 0.061 B J | 0.12 | 0.063 B J | 0.21 B J | 0.31 | 0.15 B J | 0.20 B J | < 0.029 | 0.22 | 0.17 | 0.086 B J |
| 6020 | Arsenic | 7440-38-2 | UG/L | 10 | -- | 0.045 | **13.0** | **5.3** | **0.90 B** | **0.71 B** | **0.74 B** | **10.6** | **0.41 B** | **3.6** | **1.3** | **150** | **28.0** | **1.2** | **2.9** | **16.5** | **34.5** | **1.2** | **20.1** |
| 6020 | Barium | 7440-39-3 | UG/L | 2000 | -- | 7300 | 170 | 109 | 140 | 122 | 107 | 1090 | 473 | 57.6 | 1.2 | 58.1 | 677 | 35.3 | 51.2 | 215 | 830 | 135 | 105 |
| 6020 | Beryllium | 7440-41-7 | UG/L | 4 | -- | 73 | 0.052 B | < 0.023 | < 0.023 | 0.025 B | < 0.023 | 0.29 B | < 0.023 | 0.052 | < 0.023 | < 0.023 | 0.070 | < 0.023 | 0.024 B | < 0.023 | 0.037 | < 0.023 | < 0.023 |
| 6020 | Cadmium | 7440-43-9 | UG/L | 5 | -- | 18 | 0.069 B | < 0.023 | 0.87 B | 0.076 B | 0.056 B | 0.19 B | < 0.023 | 0.22 | 0.13 B | 0.074 B | 0.086 | 0.14 B | 0.23 B | 0.024 B | 0.060 | 0.060 | 0.050 B |
| 6020 | Calcium | 7440-70-2 | UG/L | -- | -- | -- | 24600 | 59200 | 80000 | 128000 | 58400 | 331000 | 104000 | 47400 | 48700 | 236000 | 997000 | 54000 | 111000 | 109000 | 286000 | 113000 | 164000 |
| 6020 | Chromium | 7440-47-3 | UG/L | 100 | -- | -- | 0.82 B | < 0.56 | < 0.56 | 1.3 | 1.3 | 197 | 6.1 | 1.7 | 0.61 B | 38.6 | 53.6 | 7.9 | 8.2 | 2.2 | 3.5 | 9.1 | 1.1 |
| 6020 | Cobalt | 7440-48-4 | UG/L | -- | -- | 730 | 6.3 | 0.12 B | 1.3 | 0.18 B | 0.069 B | 7.1 | 0.37 B | 30.0 | 0.14 B | 7.8 | 57.2 | 0.32 B | 1.4 | 0.80 B | 1.5 | 0.40 | 0.85 B |
| 6020 | Copper | 7440-50-8 | UG/L | 1300 | 1000 | 1400 | 1.6 | 0.64 B | 2.3 | 0.90 B | 0.76 B | 13.9 | 1.2 | 2.1 | 0.98 B | 10.8 | 20.1 | 2.7 | 3.4 | 0.93 B | 24.9 | 1.5 | 4.4 |
| 6020 | Iron | 7439-89-6 | UG/L | -- | 300 | 26000 | 5750 J | 1760 J | 47.7 B J | 83.0 | 43.8 B J | **29400 J** | 3000 J | 3180 | 171 J | 20300 | **26800** | 203 J | 268 | 4740 | **58700** | 43.9 | 15700 J |
| 6020 | Lead | 7439-92-1 | UG/L | 15 | -- | 15 | 0.43 B | 0.11 B | 0.26 B | 0.059 B | 0.076 B | 8.2 | 0.68 B | 0.27 | < 0.05 | 0.74 B | 0.96 | 0.25 B | 0.81 B | 0.27 B | **1.0** | 0.84 | 0.65 B |
| 6020 | Magnesium | 7439-95-4 | UG/L | -- | -- | -- | 10400 | 40100 | 54600 | 107000 | 31600 | 162000 | 43000 | 11600 | 18500 | 100000 | 427000 | 22600 | 31900 | 46700 | 96700 | 43800 | 92800 |
| 6020 | Manganese | 7439-96-5 | UG/L | -- | 50 | 1700 | **3130** | **1900** | 880 | 15.8 | 1.8 B | 1300 | 305 | 14500 | **1810** | 1400 | **14400** | 91.0 | 447 | 845 | **5630** | 45.0 | **1980** |
| 6020 | Nickel | 7440-02-0 | UG/L | -- | -- | 730 | 13.4 | 1.4 | 7.4 | 3.3 | 1.1 | 138 | 6.8 | 62.0 | 6.3 | 39.4 | 215 | 4.6 | 16.2 | 5.2 | 26.5 | 4.8 | 9.8 |
| 6020 | Potassium | 7440-09-7 | UG/L | -- | -- | -- | 1650 B | < 220 | < 220 | < 220 | < 220 | 2580 B | 1680 B | 262000 | 1300 B | 2510 | 361000 | 2030 B | 2290 | 1700 | 5000 | 1290 | 3870 B |
| 6020 | Selenium | 7782-49-2 | UG/L | 50 | -- | 180 | < 0.11 | < 0.11 | < 0.11 | 9.4 | 2.3 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | 0.95 B | 0.67 | < 0.11 | 1.1 | < 0.11 | 1.3 | < 0.11 | 0.41 B |
| 6020 | Silver | 7440-22-4 | UG/L | -- | 100 | 180 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | 0.059 B | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 |
| 6020 | Sodium | 7440-23-5 | UG/L | -- | -- | -- | 8040 B | 31700 | 107000 | 126000 | 39600 | 277000 | 17400 | 60100 | 152000 | 708000 | 183000 | 84700 | 59400 | 12800 | 1320000 | 29800 | 297000 |
| 6020 | Thallium | 7440-28-0 | UG/L | 2 | -- | 2.6 | 0.021 B | < 0.019 | 0.021 B | < 0.019 | < 0.019 | 0.11 B | < 0.019 | 0.085 | < 0.019 | < 0.019 | < 0.019 | < 0.019 | 0.036 B | < 0.019 | < 0.019 | < 0.019 | < 0.019 |
| 6020 | Vanadium | 7440-62-2 | UG/L | -- | -- | 180 | 2.1 | 0.50 B | 0.78 B | 1.8 | 1.4 | 10.9 | 0.81 B | 0.68 | 0.16 B | 1.1 | 3.7 | 2.0 | 8.3 | 0.54 B | 16.9 | 2.6 | 8.3 |
| 6020 | Zinc | 7440-66-6 | UG/L | -- | 5000 | 11000 | 11.7 | 6.3 B | 10.7 | 5.9 B | 6.0 B | 71.9 | 25.1 | 9.2 | 2.7 B | 8.9 B | 39.0 | 9.1 B | 15.4 | 11.7 | 33.7 | 7.9 | 8.3 B |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | UG/L | -- | -- | 0.28 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.77 | < 0.0077 | < 0.0077 | < 0.077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.077 | < 0.0077 | < 0.0077 |
| 8081A | 4,4'-DDE | 72-55-9 | UG/L | -- | -- | 0.2 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.75 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.0075 |
| 8081A | 4,4'-DDT | 50-29-3 | UG/L | -- | -- | 0.2 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 1.5 | < 0.015 | < 0.015 | < 0.15 | < 0.015 | < 0.015 | < 0.015 | < 0.15 | < 0.015 | < 0.015 |
| 8081A | Aldrin | 309-00-2 | UG/L | -- | -- | 0.004 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.59 | < 0.0059 | < 0.0059 | < 0.059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.059 | < 0.0059 | < 0.0059 |
| 8081A | alpha-BHC | 319-84-6 | UG/L | -- | -- | 0.011 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.53 | < 0.0053 | < 0.0053 | 0.10 | < 0.0053 | < 0.0053 | < 0.0053 | **0.24** | < 0.0053 | < 0.0053 |
| 8081A | alpha-Chlordane | 5103-71-9 | UG/L | -- | -- | -- | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.53 | < 0.0053 | < 0.0053 | < 0.053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.053 | 0.0059 | < 0.0053 |
| 8081A | beta-BHC | 319-85-7 | UG/L | -- | -- | 0.037 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.87 | < 0.0087 | < 0.0087 | < 0.087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.087 | < 0.0087 | < 0.0087 |
| 8081A | Chlordane (technical) | 57-74-9 | UG/L | 2 | -- | 0.19 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 14 | < 0.14 | < 0.14 | < 1.4 | < 0.14 | < 0.14 | < 0.14 | < 1.4 | < 0.14 | < 0.14 |
| 8081A | delta-BHC | 319-86-8 | UG/L | -- | -- | -- | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | 0.0060 J COL | < 0.0058 | < 0.58 | < 0.0058 | 0.018 J | < 0.058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.058 | 0.016 | < 0.0058 |
| 8081A | Dieldrin | 60-57-1 | UG/L | -- | -- | 0.0042 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.63 | **0.0080 J COL** | < 0.0063 | < 0.063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.063 | < 0.0063 | < 0.0063 |
| 8081A | Endosulfan I | 959-98-8 | UG/L | -- | -- | -- | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.58 | < 0.0058 | < 0.0058 | < 0.058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.058 | < 0.0058 | < 0.0058 |
| 8081A | Endosulfan II | 33213-65-9 | UG/L | -- | -- | -- | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.7 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.007 |
| 8081A | Endosulfan sulfate | 1031-07-8 | UG/L | -- | -- | -- | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.57 | < 0.0057 | < 0.0057 | < 0.057 | < 0.0057 | < 0.0057 | < 0.0057 | 0.17 | < 0.0057 | < 0.0057 |
| 8081A | Endrin | 72-20-8 | UG/L | 2 | -- | 11 | 0.014 J COL | 0.0086 J COL | 0.039 J | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.79 | < 0.0079 | < 0.0079 | < 0.079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.079 | < 0.0079 | < 0.0079 |
| 8081A | Endrin aldehyde | 7421-93-4 | UG/L | -- | -- | -- | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.88 | < 0.0088 | < 0.0088 | < 0.088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.088 | < 0.0088 | < 0.0088 |
| 8081A | Endrin ketone | 53494-70-5 | UG/L | -- | -- | -- | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.7 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.007 |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | UG/L | 0.2 | -- | 0.052 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.69 | **0.42 COL** | < 0.0069 | **0.11** | < 0.0069 | < 0.0069 | < 0.0069 | **0.19** | < 0.0069 | < 0.0069 |
| 8081A | gamma-Chlordane | 5103-74-2 | UG/L | -- | -- | -- | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.91 | < 0.0091 | < 0.0091 | < 0.091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.091 | < 0.0091 | < 0.0091 |
| 8081A | Heptachlor | 76-44-8 | UG/L | 0.4 | -- | 0.015 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | **1.3** | < 0.0077 | 0.0087 J COL | < 0.077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.077 | < 0.0077 | < 0.0077 |
| 8081A | Heptachlor epoxide | 1024-57-3 | UG/L | 0.2 | -- | 0.0074 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.75 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.0075 |
| 8081A | Methoxychlor | 72-43-5 | UG/L | 40 | -- | 180 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | 6.3 | < 0.013 | < 0.013 | < 0.13 | < 0.013 | < 0.013 | < 0.013 | < 0.13 | < 0.013 | < 0.013 |
| 8081A | Toxaphene | 8001-35-2 | UG/L | 3 | -- | 0.061 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | 2.1 | 6.0 | 0.34 J COL | < 1.2 | 5.2 | 0.90 | < 0.24 | 11 | 0.70 | 0.54 J COL |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | UG/L | 200 | -- | 840 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 18 | < 0.36 | < 0.36 | < 7.2 | < 0.36 | < 0.36 | < 0.36 | < 7.2 | < 0.36 | < 0.72 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | UG/L | -- | -- | 0.055 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 16 | < 0.31 | < 0.31 | < 6.2 | < 0.31 | < 0.31 | < 0.31 | < 6.2 | < 0.31 | < 0.62 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | UG/L | 5 | -- | 0.2 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 18 | < 0.35 | < 0.35 | < 7 | < 0.35 | < 0.35 | < 0.35 | < 7 | **0.37** | < 0.7 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | UG/L | -- | -- | 1200 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 19 | < 0.37 | < 0.37 | < 7.5 | < 0.37 | < 0.37 | < 0.37 | < 7.5 | < 0.37 | < 0.75 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | UG/L | 7 | -- | 340 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 21 | < 0.43 | < 0.43 | < 8.5 | < 0.43 | < 0.43 | < 0.43 | < 8.5 | < 0.43 | < 0.85 |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | UG/L | 0.05 | -- | 0.0056 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 15 | < 0.3 | < 0.3 | < 6 | < 0.3 | < 0.3 | < 0.3 | < 6 | < 0.3 | < 0.6 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | **1000** | 3.1 | **77** | **860** | < 0.43 | 4.7 | < 0.43 | 580 | 0.53 | 2.4 |
| 8260B | 1,2-Dichloroethane | 107-06-2 | UG/L | 5 | -- | 0.12 | < 0.39 | < 0.39 | **0.92 J** | **1.7** | < 0.39 | **0.96 J** | **1.1** | < 20 | < 0.39 | **10** | **2200** | < 0.39 | < 0.39 | < 0.39 | **90** | 520 | **120** |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | UG/L | -- | -- | -- | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 37 | < 0.73 | < 0.73 | < 15 | < 0.73 | < 0.73 | < 0.73 | < 15 | < 0.73 | < 1.5 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | UG/L | 5 | -- | 0.17 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 19 | < 0.37 | < 0.37 | < 7.5 | < 0.37 | < 0.37 | < 0.37 | < 7.5 | **1.0** | < 0.75 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 19 | < 0.39 | < 0.39 | < 7.7 | < 0.39 | < 0.39 | < 0.39 | < 7.7 | 3.5 | < 0.77 |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 1MW-1 7/9/2008 | 1MW-2 7/10/2008 | 1MW-3 7/10/2008 | 1MW-4 7/10/2008 | 1MW-5 7/9/2008 | 1MW-6 7/9/2008 | 1MW-7 7/10/2008 | 2MW-1 7/13/2008 | 2MW-2 7/9/2008 | 2MW-3 7/10/2008 | 2MW-4 7/12/2008 | 2MW-5 7/10/2008 | 2MW-6 7/11/2008 | 2MW-7 7/11/2008 | 4MW-1 7/13/2008 | 4MW-3 7/12/2008 | 4MW-4 7/8/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | **21** | < 0.38 | **0.87 J** | **16** | < 0.38 | < 0.38 | < 0.38 | **16** | < 0.38 | < 0.75 |
| 8260B | 2-Butanone (MEK) | 78-93-3 | UG/L | -- | -- | 7100 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 42 | < 0.84 | < 0.84 | < 17 | < 0.84 | < 0.84 | < 0.84 | < 17 | < 0.84 | < 1.7 |
| 8260B | 2-Hexanone | 591-78-6 | UG/L | -- | -- | -- | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 13 | < 0.27 | < 0.27 | < 5.3 | < 0.27 | < 0.27 | < 0.27 | < 5.3 | < 0.27 | < 0.53 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | UG/L | -- | -- | 2000 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 21 | < 0.42 | 1.4 J | < 8.3 | < 0.42 | < 0.42 | < 0.42 | 50 | < 0.42 | < 0.83 |
| 8260B | Acetone | 67-64-1 | UG/L | -- | -- | 5500 | 1.5 J | < 0.82 | < 0.82 | 2.3 J | < 0.82 | 2.6 J | 1.3 J | 55 | 1.8 J | 12 | < 16 | 1.2 J | 4.6 J | 3.3 J | 100 | 2.7 | 2.1 J |
| 8260B | Benzene | 71-43-2 | UG/L | 5 | -- | 0.35 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 20 | < 0.39 | **0.61 J** | < 7.8 | < 0.39 | < 0.39 | < 0.39 | **63** | < 0.39 | < 0.78 |
| 8260B | Bromobenzene | 108-86-1 | UG/L | -- | -- | 23 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 20 | < 0.39 | < 0.39 | < 7.9 | < 0.39 | < 0.39 | < 0.39 | < 7.9 | < 0.39 | < 0.79 |
| 8260B | Bromochloromethane | 74-97-5 | UG/L | -- | -- | -- | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 18 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.74 |
| 8260B | Bromodichloromethane | 75-27-4 | UG/L | -- | -- | 0.18 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 18 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.74 |
| 8260B | Bromoform | 75-25-2 | UG/L | -- | -- | 8.5 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 13 | < 0.27 | < 0.27 | < 5.4 | < 0.27 | < 0.27 | < 0.27 | < 5.4 | < 0.27 | < 0.54 |
| 8260B | Bromomethane | 74-83-9 | UG/L | -- | -- | 8.7 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 36 | < 0.72 | < 0.72 | < 14 | < 0.72 | < 0.72 | < 0.72 | < 14 | < 0.72 | < 1.4 |
| 8260B | Carbon disulfide | 75-15-0 | UG/L | -- | -- | 1000 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | 0.69 J | < 0.38 | < 19 | < 0.38 | < 0.38 | < 7.7 | < 0.38 | < 0.38 | < 0.38 | < 7.7 | < 0.38 | < 0.77 |
| 8260B | Carbon tetrachloride | 56-23-5 | UG/L | 5 | -- | 0.17 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 20 | < 0.41 | < 0.41 | < 8.1 | < 0.41 | < 0.41 | < 0.41 | < 8.1 | < 0.41 | < 0.81 |
| 8260B | Chlorobenzene | 108-90-7 | UG/L | 100 | -- | 91 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | 63 | < 0.33 | 4.8 | **220** | < 0.33 | < 0.33 | < 0.33 | **1100** | < 0.33 | 12 |
| 8260B | Chloroethane | 75-00-3 | UG/L | -- | -- | 3.9 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 22 | < 0.45 | 3.3 | < 9 | < 0.45 | < 0.45 | < 0.45 | **18** | < 0.45 | < 0.9 |
| 8260B | Chloroform | 67-66-3 | UG/L | -- | -- | 0.17 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 17 | < 0.35 | < 0.35 | < 7 | **0.80 J** | **0.64 J** | < 0.35 | < 7 | 0.46 | < 0.7 |
| 8260B | Chloromethane | 74-87-3 | UG/L | -- | -- | 2.1 | 0.96 J | < 0.48 | < 0.48 | < 0.48 | 0.59 J | < 0.48 | < 0.48 | < 24 | < 0.48 | < 0.48 | < 9.6 | < 0.48 | < 0.48 | < 0.48 | < 9.6 | < 0.48 | < 0.96 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | UG/L | 70 | -- | 61 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 18 | < 0.37 | < 0.37 | < 7.3 | < 0.37 | < 0.37 | < 0.37 | < 7.3 | < 0.37 | < 0.73 |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | UG/L | -- | -- | 0.4 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 15 | < 0.31 | < 0.31 | < 6.1 | < 0.31 | < 0.31 | < 0.31 | < 6.1 | < 0.31 | < 0.61 |
| 8260B | Dibromochloromethane | 124-48-1 | UG/L | -- | -- | 0.13 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 14 | < 0.28 | < 0.28 | < 5.6 | < 0.28 | < 0.28 | < 0.28 | < 5.6 | < 0.28 | < 0.56 |
| 8260B | Dibromomethane | 74-95-3 | UG/L | -- | -- | 61 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 20 | < 0.41 | < 0.41 | < 8.1 | < 0.41 | < 0.41 | < 0.41 | < 8.1 | < 0.41 | < 0.81 |
| 8260B | Ethylbenzene | 100-41-4 | UG/L | 700 | -- | 1300 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 21 | < 0.42 | < 0.42 | 9.7 | < 0.42 | < 0.42 | < 0.42 | 180 | < 0.42 | < 0.83 |
| 8260B | Methylene chloride | 75-09-2 | UG/L | 5 | -- | 4.3 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | **120** | < 0.42 | < 0.42 | < 8.4 | < 0.42 | < 0.42 | < 0.42 | **22** | < 0.42 | < 0.84 |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | UG/L | -- | -- | -- | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 41 | < 0.83 | < 0.83 | < 17 | < 0.83 | < 0.83 | < 0.83 | 240 | < 0.83 | < 1.7 |
| 8260B | o-Xylene | 95-47-6 | UG/L | -- | -- | 1400 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 19 | < 0.39 | < 0.39 | < 7.7 | < 0.39 | < 0.39 | < 0.39 | 240 | < 0.39 | < 0.77 |
| 8260B | Styrene | 100-42-5 | UG/L | 100 | -- | 1600 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 16 | < 0.31 | < 0.31 | < 6.2 | < 0.31 | < 0.31 | < 0.31 | 8.4 | < 0.31 | < 0.62 |
| 8260B | Tetrachloroethene | 127-18-4 | UG/L | 5 | -- | 0.11 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 20 | < 0.4 | < 0.4 | < 8 | < 0.4 | < 0.4 | < 0.4 | < 8 | < 0.4 | < 0.8 |
| 8260B | Toluene | 108-88-3 | UG/L | 1000 | -- | 2300 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 20 | < 0.39 | 0.60 J | < 7.8 | < 0.39 | < 0.39 | < 0.39 | 950 | < 0.39 | < 0.78 |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | UG/L | 100 | -- | 110 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 19 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.74 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | UG/L | -- | -- | 0.4 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 10 | < 0.21 | < 0.21 | < 4.2 | < 0.21 | < 0.21 | < 0.21 | < 4.2 | < 0.21 | < 0.42 |
| 8260B | Trichloroethene | 79-01-6 | UG/L | 5 | -- | 0.028 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 22 | < 0.45 | < 0.45 | < 9 | < 0.45 | < 0.45 | < 0.45 | < 9 | < 0.45 | < 0.9 |
| 8260B | Trichlorofluoromethane | 75-69-4 | UG/L | -- | -- | 1300 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 24 | < 0.47 | < 0.47 | < 9.5 | < 0.47 | < 0.47 | < 0.47 | < 9.5 | < 0.47 | < 0.95 |
| 8260B | Vinyl acetate | 108-05-4 | UG/L | -- | -- | 410 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 15 | < 0.29 | < 0.29 | < 5.9 | < 0.29 | < 0.29 | < 0.29 | < 5.9 | < 0.29 | < 0.59 |
| 8260B | Vinyl chloride | 75-01-4 | UG/L | 2 | -- | 0.015 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 20 | < 0.4 | < 0.4 | < 8 | < 0.4 | < 0.4 | < 0.4 | < 8 | < 0.4 | < 0.8 |
| 8260B | Xylenes (total) | 1330-20-7 | UG/L | 10000 | -- | 200 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 60 | < 1.2 | < 1.2 | < 24 | < 1.2 | < 1.2 | < 1.2 | **480** | < 1.2 | < 2.4 |
| | **VOC TICs** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,2,3-Trimethylbenzene | 526-73-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 120 | -- | -- |
| 8260B | 1,2,4-Trimethylbenzene | 95-36-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 530 | -- | -- |
| 8260B | benzo[b,e][1,4]diazepin-11-one, 5-(3-a | 13450-73-2 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 4.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1-Propene, 2-methyl- | 115-11-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Butanone, 3,3-dimethyl- | 75-97-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | UG/L | -- | -- | -- | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 31 | < 0.62 | < 0.62 | < 12 | < 0.62 | < 0.62 | < 0.62 | < 12 | < 0.62 | < 1.2 |
| 8260B | 2-Propanol, 2-methyl- | 75-65-0 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | enzaldehyde, 2,5-bis[(trimethylsilyl)ox | 56114-69-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 330 |
| 8260B | Benzene, (1-methylethyl)- | 98-82-8 | UG/L | -- | -- | 660 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2,3,5-tetramethyl- | 527-53-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2,4-trimethyl- | 95-63-6 | UG/L | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2-diethyl- | 135-01-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,3-diethyl- | 141-93-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,4-diethyl- | 105-05-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-ethyl-2,4-dimethyl- | 874-41-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-ethyl-2-methyl- | 611-14-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 140 | -- | -- |
| 8260B | Benzene, 1-methyl-2-(1-methylethyl)- | 527-84-4 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-methyl-4-(1-methylethyl)- | 99-87-6 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | zene, 1-phenyl-4-(2-cyano-2-phenyleth | 27869-56-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 350 |
| 8260B | Benzene, 2-ethenyl-1,4-dimethyl- | 2039-89-6 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 2-ethyl-1,3-dimethyl- | 2870-04-4 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, propyl- | 103-65-1 | UG/L | -- | -- | 61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzenepropanal | 104-53-0 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 1MW-1 7/9/2008 | 1MW-2 7/10/2008 | 1MW-3 7/10/2008 | 1MW-4 7/10/2008 | 1MW-5 7/9/2008 | 1MW-6 7/9/2008 | 1MW-7 7/10/2008 | 2MW-1 7/13/2008 | 2MW-2 7/9/2008 | 2MW-3 7/10/2008 | 2MW-4 7/12/2008 | 2MW-5 7/10/2008 | 2MW-6 7/11/2008 | 2MW-7 7/11/2008 | 4MW-1 7/13/2008 | 4MW-3 7/12/2008 | 4MW-4 7/8/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | zoic acid, 2-[(trimethylsilyl)oxy]-, trime | 3789-85-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Cyclotetrasiloxane, octamethyl- | 556-67-2 | UG/L | -- | -- | -- | -- | -- | -- | -- | 3.5 | 4.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 260 |
| 8260B | Cyclotrisiloxane, hexamethyl- | 541-05-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Dimethyl sulfide | 75-18-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 51 | -- | -- |
| 8260B | Ethanone, 1-(2,4-dimethylphenyl)- | 89-74-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Ethenamine, n-methylene- | 38239-27-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Isobutane | 75-28-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Propene | 115-07-1 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Tetrasiloxane, decamethyl- | 141-62-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.0 |
| 8260B | Unknown | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | UG/L | 70 | -- | 8.2 | < 0.83 | < 0.84 | < 0.84 | < 0.81 | < 0.82 | < 0.81 | < 0.81 | < 8.4 | < 0.84 | < 0.8 | < 4.1 | < 0.81 | < 0.81 | < 0.81 | < 8.3 | < 0.82 | < 0.82 |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | < 0.96 | < 0.97 | < 0.97 | < 0.93 | < 0.95 | < 0.93 | < 0.94 | **1100** | 1.8 J | **59** | **700** | < 0.93 | 2.9 J | < 0.94 | **480** | < 0.95 | 1.4 J |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | < 0.98 | < 0.99 | < 0.99 | < 0.95 | < 0.97 | < 0.95 | < 0.96 | < 9.9 | < 0.99 | < 0.94 | < 4.8 | < 0.95 | < 0.96 | < 0.96 | < 9.8 | 3.0 | < 0.97 |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | < 0.8 | < 0.81 | < 0.81 | < 0.78 | < 0.79 | < 0.78 | < 0.78 | **17** | < 0.81 | < 0.77 | **12** | < 0.78 | < 0.78 | < 0.78 | **11** | < 0.79 | < 0.79 |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | UG/L | -- | -- | 3700 | < 0.99 | < 1 | < 1 | < 0.96 | < 0.98 | < 0.96 | < 0.97 | < 10 | < 1 | < 0.95 | < 4.9 | < 0.96 | < 0.97 | < 0.97 | < 9.9 | < 0.98 | < 0.98 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | UG/L | -- | -- | 6.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1 | < 5.3 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | UG/L | -- | -- | 110 | < 1 | < 1 | < 1 | < 0.99 | < 1 | < 0.99 | < 1 | 60 | < 1 | < 0.98 | 16 | < 0.99 | < 1 | < 1 | 42 | < 1 | < 1 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | UG/L | -- | -- | 730 | < 1.9 | < 1.9 | < 1.9 | < 1.8 | < 1.9 | < 1.8 | < 1.8 | < 19 | < 1.9 | < 1.8 | < 9.2 | < 1.8 | < 1.8 | < 1.8 | 25 | < 1.9 | < 1.9 |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | UG/L | -- | -- | 73 | < 3.7 | < 3.7 | < 3.7 | < 3.6 | < 3.7 | < 3.6 | < 3.6 | < 37 | < 3.7 | < 3.6 | < 18 | < 3.6 | < 3.6 | < 3.6 | < 37 | < 3.7 | < 3.7 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | UG/L | -- | -- | 73 | < 2.9 | < 2.9 | < 2.9 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 29 | < 2.9 | < 2.7 | < 14 | < 2.8 | < 2.8 | < 2.8 | < 29 | < 2.8 | < 2.8 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | UG/L | -- | -- | 37 | < 1 | < 1 | < 1 | < 0.98 | < 1 | < 0.98 | < 1 | < 10 | < 1 | < 0.97 | < 5 | < 0.98 | < 1 | < 1 | < 10 | < 1 | < 1 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | UG/L | -- | -- | 490 | < 1.4 | < 1.5 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 15 | < 1.5 | < 1.4 | < 7.1 | < 1.4 | < 1.4 | < 1.4 | < 14 | < 1.4 | < 1.4 |
| 8270C | 2-Chlorophenol | 95-57-8 | UG/L | -- | -- | 30 | < 1.5 | < 1.5 | < 1.5 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 15 | < 1.5 | < 1.4 | < 7.2 | < 1.4 | < 1.4 | < 1.4 | < 15 | < 1.5 | < 1.5 |
| 8270C | 2-Methylnaphthalene | 91-57-6 | UG/L | -- | -- | -- | < 0.96 | < 0.97 | < 0.97 | < 0.93 | < 0.95 | < 0.93 | < 0.94 | < 9.7 | < 0.97 | < 0.92 | < 4.7 | < 0.93 | < 0.94 | < 0.94 | < 9.6 | < 0.95 | < 0.95 |
| 8270C | 2-Methylphenol | 95-48-7 | UG/L | -- | -- | 1800 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 18 | < 1.8 | < 1.7 | < 8.8 | < 1.8 | < 1.8 | < 1.8 | 680 | < 1.8 | < 1.8 |
| 8270C | 2-Nitroaniline | 88-74-4 | UG/L | -- | -- | 110 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.1 | < 1.2 | < 12 | < 1.2 | < 1.1 | < 5.8 | < 1.1 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 |
| 8270C | 2-Nitrophenol | 88-75-5 | UG/L | -- | -- | -- | < 1 | < 1.1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 11 | < 1.1 | < 1 | < 5.1 | < 1 | < 1 | < 1 | < 10 | < 1 | < 1 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | UG/L | -- | -- | 0.15 | < 1.7 | < 1.7 | < 1.7 | < 1.6 | < 1.7 | < 1.6 | < 1.7 | < 17 | < 1.7 | < 1.6 | < 8.3 | < 1.6 | < 1.7 | < 1.7 | < 17 | < 1.7 | < 1.7 |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | UG/L | -- | -- | -- | < 1 | < 1 | < 1 | < 0.98 | < 1 | 2.1 J | < 1 | 50000 | 5.1 J | 220 | 17000 | < 0.98 | 1.1 J | < 1 | 5900 | < 1 | 4.4 J |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | UG/L | -- | -- | 180 | < 2.6 | < 2.6 | < 2.6 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 26 | < 2.6 | < 2.5 | < 13 | < 2.5 | < 2.5 | < 2.5 | 430 | < 2.5 | < 2.5 |
| 8270C | 3-Nitroaniline | 99-09-2 | UG/L | -- | -- | -- | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 | < 5.9 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | UG/L | -- | -- | -- | < 3.5 | < 3.6 | < 3.6 | < 3.4 | < 3.5 | < 3.4 | < 3.5 | < 36 | < 3.6 | < 3.4 | < 17 | < 3.4 | < 3.5 | < 3.5 | < 35 | < 3.5 | < 3.5 |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | UG/L | -- | -- | -- | < 0.92 | < 0.93 | < 0.93 | < 0.9 | < 0.91 | < 0.9 | < 0.91 | < 9.3 | < 0.93 | < 0.89 | < 4.5 | < 0.9 | < 0.91 | < 0.91 | < 9.2 | < 0.91 | < 0.91 |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1 | < 11 | < 1.1 | < 1 | < 5.2 | < 1 | < 1 | < 1 | < 11 | < 1.1 | < 1.1 |
| 8270C | 4-Chloroaniline | 106-47-8 | UG/L | -- | -- | 150 | < 1.6 | < 1.7 | < 1.7 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | **340** | < 1.7 | 2.7 J | **380** | < 1.6 | < 1.6 | < 1.6 | **15000** | < 1.6 | < 1.6 |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | UG/L | -- | -- | -- | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 14 | < 1.4 | < 1.4 | < 7 | < 1.4 | < 1.4 | < 1.4 | < 14 | < 1.4 | < 1.4 |
| 8270C | 4-Nitroaniline | 100-01-6 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1.1 | < 11 | < 1.1 | < 1 | < 5.3 | < 1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | 4-Nitrophenol | 100-02-7 | UG/L | -- | -- | 290 | < 4.1 | < 4.1 | < 4.1 | < 3.9 | < 4 | < 3.9 | < 4 | < 41 | < 4.1 | < 3.9 | < 20 | < 3.9 | < 4 | < 4 | < 41 | < 4 | < 4 |
| 8270C | Acenaphthene | 83-32-9 | UG/L | -- | -- | 370 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1 | < 5.3 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Acenaphthylene | 208-96-8 | UG/L | -- | -- | -- | < 0.9 | < 0.9 | < 0.9 | < 0.87 | < 0.89 | < 0.87 | < 0.88 | < 9 | < 0.9 | < 0.86 | < 4.4 | < 0.87 | < 0.88 | < 0.88 | < 9 | < 0.89 | < 0.89 |
| 8270C | Aniline | 62-53-3 | UG/L | -- | -- | 12 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 20 | < 2 | < 1.9 | < 9.9 | < 2 | < 2 | < 2 | < 20 | < 2 | < 2 |
| 8270C | Anthracene | 120-12-7 | UG/L | -- | -- | 1800 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Benzo(a)anthracene | 56-55-3 | UG/L | -- | -- | 0.03 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Benzo(a)pyrene | 50-32-8 | UG/L | 0.2 | -- | 0.003 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | UG/L | -- | -- | 0.03 | < 0.78 | < 0.79 | < 0.79 | < 0.76 | < 0.77 | < 0.76 | < 0.76 | < 7.9 | < 0.79 | < 0.75 | < 3.8 | < 0.76 | < 0.76 | < 0.76 | < 7.8 | < 0.77 | < 0.77 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | UG/L | -- | -- | -- | < 0.75 | < 0.76 | < 0.76 | < 0.73 | < 0.75 | < 0.73 | < 0.74 | < 7.6 | < 0.76 | < 0.72 | < 3.7 | < 0.73 | < 0.74 | < 0.74 | < 7.5 | < 0.75 | < 0.75 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | UG/L | -- | -- | 0.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 | < 6 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 |
| 8270C | Benzoic acid | 65-85-0 | UG/L | -- | -- | 150000 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 130 | < 13 | < 13 | < 65 | < 13 | < 13 | < 13 | < 130 | < 13 | < 13 |
| 8270C | Benzyl alcohol | 100-51-6 | UG/L | -- | -- | 11000 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 16 | < 1.6 | < 1.6 | < 7.9 | < 1.6 | < 1.6 | < 1.6 | < 16 | < 1.6 | < 1.6 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | UG/L | -- | -- | 0.0098 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.1 | < 1.2 | < 12 | < 1.2 | **40** | < 5.8 | < 1.1 | < 1.2 | < 1.2 | < 12 | < 1.2 | 29 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | UG/L | -- | -- | 0.27 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 | < 5.9 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | UG/L | 6 | -- | 4.8 | < 2.7 | < 2.7 | < 2.7 | < 2.6 | < 2.7 | < 2.6 | 4.5 J | < 27 | < 2.7 | < 2.6 | < 13 | **6.0 J** | < 2.7 | 2.8 J | < 27 | < 2.7 | 4.8 J |
| 8270C | Butyl benzyl phthalate | 85-68-7 | UG/L | -- | -- | 7300 | < 0.98 | < 0.99 | < 0.99 | < 0.95 | < 0.97 | < 0.95 | < 0.96 | < 9.9 | < 0.99 | < 0.94 | < 4.8 | < 0.95 | < 0.96 | < 0.96 | < 9.8 | < 0.97 | < 0.97 |
| 8270C | Chrysene | 218-01-9 | UG/L | -- | -- | 3 | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1 | < 11 | < 1.1 | < 1 | < 5.2 | < 1 | < 1 | < 1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | UG/L | -- | -- | 0.003 | < 1 | < 1 | < 1 | < 0.97 | < 0.99 | < 0.97 | < 0.98 | < 10 | < 1 | < 0.96 | < 4.9 | < 0.97 | < 0.98 | < 0.98 | < 10 | < 0.99 | < 0.99 |
| 8270C | Dibenzofuran | 132-64-9 | UG/L | -- | -- | 12 | < 1 | < 1.1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 11 | < 1.1 | < 1 | < 5.1 | < 1 | < 1 | < 1 | < 10 | < 1 | < 1 |
| 8270C | Diethyl phthalate | 84-66-2 | UG/L | -- | -- | 29000 | < 1.5 | < 1.5 | < 1.5 | < 1.4 | 2.4 J | < 1.4 | < 1.4 | < 15 | < 1.5 | < 1.4 | < 7.1 | < 1.4 | < 1.4 | < 1.4 | < 15 | < 1.4 | < 1.4 |
| 8270C | Dimethyl phthalate | 131-11-3 | UG/L | -- | -- | 370000 | < 1.3 | < 1.3 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 13 | < 1.3 | < 1.2 | < 6.1 | < 1.2 | < 1.2 | < 1.2 | < 13 | < 1.2 | < 1.2 |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 1MW-1 7/9/2008 | 1MW-2 7/10/2008 | 1MW-3 7/10/2008 | 1MW-4 7/10/2008 | 1MW-5 7/9/2008 | 1MW-6 7/9/2008 | 1MW-7 7/10/2008 | 2MW-1 7/13/2008 | 2MW-2 7/9/2008 | 2MW-3 7/10/2008 | 2MW-4 7/12/2008 | 2MW-5 7/10/2008 | 2MW-6 7/11/2008 | 2MW-7 7/11/2008 | 4MW-1 7/13/2008 | 4MW-3 7/12/2008 | 4MW-4 7/8/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Di-n-butyl phthalate | 84-74-2 | UG/L | -- | -- | 3700 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Di-n-octyl phthalate | 117-84-0 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | < 0.41 | < 0.41 | < 0.41 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 4.1 | 4.7 J | < 0.39 | < 2 | 3.5 J | 3.0 J | < 0.4 | < 4.1 | < 0.4 | < 0.4 |
| 8270C | Fluoranthene | 206-44-0 | UG/L | -- | -- | 1500 | < 0.91 | < 0.92 | < 0.92 | < 0.88 | < 0.9 | < 0.88 | < 0.89 | < 9.2 | < 0.92 | < 0.87 | < 4.5 | < 0.88 | < 0.89 | < 0.89 | < 9.1 | < 0.9 | < 0.9 |
| 8270C | Fluorene | 86-73-7 | UG/L | -- | -- | 240 | < 1 | < 1 | < 1 | < 0.97 | < 0.99 | < 0.97 | < 0.98 | < 10 | < 1 | < 0.96 | < 4.9 | < 0.97 | < 0.98 | < 0.98 | < 10 | < 0.99 | < 0.99 |
| 8270C | Hexachlorobenzene | 118-74-1 | UG/L | 1 | -- | 0.042 | < 1.5 | < 1.5 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 15 | < 1.5 | < 1.4 | < 7.1 | < 1.4 | < 1.4 | < 1.4 | < 15 | < 1.4 | < 1.4 |
| 8270C | Hexachlorobutadiene | 87-68-3 | UG/L | -- | -- | 0.86 | < 1.3 | < 1.3 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 13 | < 1.3 | < 1.2 | < 6.2 | < 1.2 | < 1.2 | < 1.2 | < 13 | < 1.2 | < 1.2 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | UG/L | 50 | -- | 220 | < 3.4 | < 3.4 | < 3.4 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 34 | < 3.4 | < 3.2 | < 17 | < 3.3 | < 3.3 | < 3.3 | < 34 | < 3.3 | < 3.3 |
| 8270C | Hexachloroethane | 67-72-1 | UG/L | -- | -- | 4.8 | < 0.93 | < 0.94 | < 0.94 | < 0.9 | < 0.92 | < 0.9 | < 0.91 | < 9.4 | < 0.94 | < 0.89 | < 4.6 | < 0.9 | < 0.91 | < 0.91 | < 9.3 | < 0.92 | < 0.92 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | UG/L | -- | -- | 0.03 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.6 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | Isophorone | 78-59-1 | UG/L | -- | -- | 71 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1 | < 5.3 | < 1.1 | < 1.1 | < 1.1 | **220** | < 1.1 | < 1.1 |
| 8270C | Naphthalene | 91-20-3 | UG/L | -- | -- | 6.2 | < 0.87 | < 0.88 | < 0.88 | < 0.84 | < 0.86 | < 0.84 | < 0.85 | < 8.8 | < 0.88 | < 0.83 | < 4.2 | < 0.84 | < 0.85 | < 0.85 | < 8.7 | < 0.86 | < 0.86 |
| 8270C | Nitrobenzene | 98-95-3 | UG/L | -- | -- | 3.4 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 11 | < 1.1 | < 1.1 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | UG/L | -- | -- | 0.0096 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 10 | < 1 | < 0.99 | < 5 | < 1 | < 1 | < 1 | < 10 | < 1 | < 1 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | UG/L | -- | -- | 14 | < 0.93 | < 0.94 | < 0.94 | < 0.9 | < 0.92 | < 0.9 | < 0.91 | < 9.4 | < 0.94 | < 0.89 | < 4.5 | < 0.9 | < 0.91 | < 0.91 | < 9.3 | < 0.92 | < 0.92 |
| 8270C | Pentachlorophenol | 87-86-5 | UG/L | 1 | -- | 0.56 | < 5.4 | < 5.4 | < 5.4 | < 5.2 | < 5.3 | < 5.2 | < 5.3 | < 54 | < 5.4 | < 5.2 | < 26 | < 5.2 | < 5.3 | < 5.3 | < 54 | < 5.3 | < 5.3 |
| 8270C | Phenanthrene | 85-01-8 | UG/L | -- | -- | -- | < 0.99 | < 1 | < 1 | < 0.96 | < 0.98 | < 0.96 | < 0.97 | < 10 | < 1 | < 0.95 | < 4.8 | < 0.96 | < 0.97 | < 0.97 | < 9.9 | < 0.98 | < 0.98 |
| 8270C | Phenol | 108-95-2 | UG/L | -- | -- | 11000 | < 2.1 | < 2.1 | < 2.1 | < 2 | < 2.1 | < 2 | < 2.1 | 36 | < 2.1 | < 2 | **40** | < 2 | < 2.1 | < 2.1 | 95 | < 2.1 | < 2.1 |
| 8270C | Propanil | 709-98-8 | UG/L | -- | -- | 180 | < 0.78 | < 0.79 | < 0.79 | < 0.75 | < 0.77 | < 0.75 | < 0.76 | **360** | < 0.79 | **3.7 J** | 120 | < 0.75 | < 0.76 | < 0.76 | **230** | < 0.77 | < 0.77 |
| 8270C | Pyrene | 129-00-0 | UG/L | -- | -- | 180 | < 0.91 | < 0.92 | < 0.92 | < 0.88 | < 0.9 | < 0.88 | < 0.89 | < 9.2 | < 0.92 | < 0.87 | < 4.4 | < 0.88 | < 0.89 | < 0.89 | < 9.1 | < 0.9 | < 0.9 |
| | **SVOC TICs** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | (4-Methoxy-phenyl)-(2-nitrocyc | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | (Methylsulphonyl)ethane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 470 | -- | -- |
| 8270C | 1,1,1,5,7,7,7-Heptamethyl-3,3- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14 | -- | -- | -- |
| 8270C | 1,1,2-Trichloroethane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,3,5-Tetrachlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,4-Trimethylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,5-Trithiepane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3,4-Thiadiazole, 2,5-dime | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3,5-Trimethylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Butadiene, 2,3-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Dioxolane, 2-ethyl-4-methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4 Dioxane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 | -- | -- | -- | 1.5 | -- | -- | -- | 4.0 |
| 8270C | 1,4-Dioxane | | UG/L | -- | -- | -- | -- | -- | -- | 1.3 | -- | -- | -- | -- | -- | -- | 25 | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4-Dithiane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4-Naphthoquinone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Buten-3-yne, 2-tert-butyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Methoxy-4-nitro-2,3,5,6-tetr | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Methylnaphthalene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Naphthalenol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Naphthylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Propanol, 2-amino-2-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, 5-hexyldihy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, dihydro-4-h | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, dihydro-5-p | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-(4-Nitrophenyl)-5-phenyl[1,3 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Furandione, 3-(1,1-dimethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Hexanediol, 2,5-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Pyrrolidinedione, 1-ethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 13 | -- | -- | -- | 390 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,6 Dichlorophenol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Butanol, 1-(isopropylamino)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Butanone, 3,3-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chloro-4-nitrobenzhydrazide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Ethyl-cyclohexylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2'-Fluoropropiophenone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Hexanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Hexyne | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Pentanone, 4-hydroxy-4-methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dimethyl-1H-pyrrole-2-carb | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dimethyl-o-phenylenediamin | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 1MW-1 7/9/2008 | 1MW-2 7/10/2008 | 1MW-3 7/10/2008 | 1MW-4 7/10/2008 | 1MW-5 7/9/2008 | 1MW-6 7/9/2008 | 1MW-7 7/10/2008 | 2MW-1 7/13/2008 | 2MW-2 7/9/2008 | 2MW-3 7/10/2008 | 2MW-4 7/12/2008 | 2MW-5 7/10/2008 | 2MW-6 7/11/2008 | 2MW-7 7/11/2008 | 4MW-1 7/13/2008 | 4MW-3 7/12/2008 | 4MW-4 7/8/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | 3,4-Methylenedioxy-N-ethylamph | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,5-Dichlorobenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Chloro-4-nitrobenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Hexanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Pentanol, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Pentanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Penten-2-ol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Penten-2-one, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4,5-Dimethyl-ortho-phenylenedi | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Methoxybenzhydrazide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 120 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 5-Chloro-beznofurazan oxide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 6-Amino-1,3,5-triazine-2,4(1H, | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 28 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 9-Benzhydrylidene-10-anthrone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetamide, N-(3-chlorophenyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetamide, N-(3-methylphenyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetophenone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Barbital | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzaldehyde | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzaldehyde, 3-phenoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,4,5-trichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | 4.4 | -- | -- | -- | -- | 420 | -- | -- | 180 | -- | -- | -- | 230 | 15 | -- |
| 8270C | Benzenamine, 2,6-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4700 | 7.3 | 50 | 1700 | -- | -- | -- | 1600 | -- | -- |
| 8270C | Benzenamine, 3-(trifluoromethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 74 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 180 | -- | -- |
| 8270C | Benzenamine, 4-chloro-N-methyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, N-ethyl-3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 28 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,2,3-trimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 410 | -- | -- |
| 8270C | Benzene, 1,3-diethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,4-dichloro-2-nitro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 420 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,4-diethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1-chloro-4-isocyanato | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1-ethyl-2,4-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, methoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 590 | -- | -- | 82 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene,-1-nitro-2,5-dichloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzeneacetamide, N,N-dimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzeneacetic acid, 3-hydro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenesulfonamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2,4-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2-amino-5-chloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 250 | -- | -- |
| 8270C | Benzoic acid, 2-amino-6-chloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3,5-dichloro-, m | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-chloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-methyl-, methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 990 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-, methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-2-nitro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-3-nitro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 350 | -- | -- | 96 | -- | -- | -- | 530 | -- | -- |
| 8270C | Bromacil | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.6 | -- | -- | -- | -- |
| 8270C | Butanal, 3-hydroxy- | | UG/L | -- | -- | -- | 1.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Caprolactam | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.5 | 3.5 | 1.2 | -- | 1.7 | -- |
| 8270C | Caprolactum | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Carbaryl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Chlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 140 | -- | -- | -- | -- | -- | 11 |
| 8270C | Cyclohexanemethanol, 4-hydroxy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Cyclohexanone, 3,3,5-trimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Cyclohexasiloxane, dodecamethy | | UG/L | -- | -- | -- | 1.6 | -- | -- | 1.0 | 3.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Diethyl 4,4'-methylenedialloph | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Diethyltoluamide | | UG/L | -- | -- | -- | -- | 15 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Dinoseb | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 1MW-1 7/9/2008 | 1MW-2 7/10/2008 | 1MW-3 7/10/2008 | 1MW-4 7/10/2008 | 1MW-5 7/9/2008 | 1MW-6 7/9/2008 | 1MW-7 7/10/2008 | 2MW-1 7/13/2008 | 2MW-2 7/9/2008 | 2MW-3 7/10/2008 | 2MW-4 7/12/2008 | 2MW-5 7/10/2008 | 2MW-6 7/11/2008 | 2MW-7 7/11/2008 | 4MW-1 7/13/2008 | 4MW-3 7/12/2008 | 4MW-4 7/8/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Dinoseb triethylamine salt | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Disulfide, dimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 190 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethane, diazo- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethanone, 2-hydroxy-1,2-bis | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 110 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethenamine, N-methylene- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethyl cyclopropanecarboxylate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethyl methanesulphinate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Formamide, N-(3,4-dichlorophen | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexadecenoic acid, Z-11- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexanedioic acid, dicyclohexyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexanedioic acid, dimethyl est | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hydrastindiol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methane, diethoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methanone, (2-hydroxyphenyl)(4 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methoxychlor | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 72 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Morpholine, 4-propionyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 41 | 43 | -- | -- | -- | -- | -- | -- |
| 8270C | m-Phenoxybenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 240 | -- | -- |
| 8270C | N,N-Dimethylformamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | n-Hexadecanoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosodimethylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosomorpholine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 | -- | -- | -- | -- | -- | -- | 0.99 |
| 8270C | Noruron | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 64 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | n-Propylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-tert-Butylacetamide | | UG/L | -- | -- | -- | -- | -- | 7.7 | 7.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | o-Chloroaniline hydrochloride | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.8 | 140 | -- | -- | -- | 1600 | -- | -- |
| 8270C | Octanoic Acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | O-Methyl-N-methylcarbamate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 48 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | o-Toluidine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 15 | -- | -- | 4.1 | -- | -- | -- | -- | -- | -- |
| 8270C | Oxirane, trimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 34 | -- | -- | -- |
| 8270C | Oxybenzone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentachlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentane, 1-(1-butenyloxy)-, (Z | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 170 | -- | -- |
| 8270C | Pentanedioic acid, dimethyl es | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, (1,1,3,3-tetramethylbu | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 2-(1-methylpropyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1200 | -- | -- |
| 8270C | Phenol, 3,4-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 360 | -- | -- | 180 | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 55 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1,1,3,3-tetramethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1,1-dimethylpropyl) | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1-methylpropyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2700 | -- | -- |
| 8270C | Piperazine, 1-phenyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 68 | -- | -- | -- | -- | -- | -- |
| 8270C | Pronamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propanoic acid, 2,2-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propanoic acid, 2-methyl-, 2,2 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.16 | -- | -- | -- | -- |
| 8270C | Propionic acid, 2,2'-dithiodi- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pyrazole, 1-methyl-4-nitro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | s-Triazolo[4,3-a]pyrazine, 3-a | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Tetradecanamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Thiocyanic acid, ethyl ester | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Toluene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown | | UG/L | -- | -- | -- | -- | 0.30 | 2.2 | 0.99 | -- | 110 | 0.99 | 63 | 1.4 | 1.5 | 210 | 0.94 | 0.23 | 5.8 | 1100 | 42 | 200 |
| 8270C | Unknown Alcohol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Amide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Amine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Organic Acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 110 | -- | -- | -- | 1900 | -- | -- |
| 8270C | Urea, N,N'-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 11 | 26 | -- | -- | -- | -- | -- | -- | -- |

Notes:

Exceeds the primary Drinking Water Standard

Exceed the Secondary Drinking Water Standard

**Bold** Exceeds the Region 6 Tap Water MSSL

-- No data available for reported analyte

is the approximate concentration of the analyte in the sample.

NA No MSSL is published for the analyte

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 9MW-1 7/13/2008 | DUP-1 7/10/2008 | DUP-2 7/13/2008 | DUP-3 7/13/2008 | DUP-4 7/25/2008 | EMW-1 7/13/2008 | EMW-4 7/13/2008 | EMW-6 7/9/2008 | EMW-6A 7/9/2008 | EMW6-B 7/8/2008 | EMW6-C 7/8/2008 | EMW-7 7/12/2008 | MW-13 7/12/2008 | MW-15 7/13/2008 | MW-16 7/11/2008 | MW-17 7/12/2008 | MW-18 7/11/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | UG/L | -- | 50 | 37000 | < 30.3 | 173 | 55.1 | < 30.3 | 818 | 56.5 | 74.3 | < 30.3 | 945 | 210 | 2440 | 162 | 73.9 | < 30.3 | **57500** | 63.2 | **180000** |
| 6020 | Antimony | 7440-36-0 | UG/L | 6 | -- | 15 | 0.097 | 0.14 B J | 0.070 | 0.19 | 0.037 B J | 0.17 | 0.067 | 0.047 B J | 0.12 B J | 0.42 B J | 0.84 B J | 0.50 | 0.064 | 0.11 | 0.40 B J | 0.32 | 0.59 B J |
| 6020 | Arsenic | 7440-38-2 | UG/L | 10 | -- | 0.045 | **45.6** | 0.38 B | **1.5** | **35.5** | **0.84 B J** | **1.4** | **14.6** | 4.1 | **6.8** | **10.4** | 94.0 | **6.0** | **13.5** | **14.5** | **5.8** | **1.0** | **80.2** |
| 6020 | Barium | 7440-39-3 | UG/L | 2000 | -- | 7300 | 243 | 486 | 88.1 | 846 | 281 | 86.5 | 329 | 218 | 880 | 247 | 275 | 207 | 213 | 245 | 24.9 | 172 | 387 |
| 6020 | Beryllium | 7440-41-7 | UG/L | 4 | -- | 73 | 0.028 | < 0.023 | < 0.023 | 0.036 | 0.094 B | < 0.023 | 0.024 | < 0.023 | 0.074 B | < 0.023 | 0.13 B | 0.031 | 0.051 | < 0.023 | 6.8 | 0.030 | **16.5** |
| 6020 | Cadmium | 7440-43-9 | UG/L | 5 | -- | 18 | 0.086 | < 0.023 | 0.10 | 0.042 | 0.067 B | 0.10 | < 0.023 | < 0.023 | 0.088 B | 0.17 B | 0.33 B | 0.081 | 0.047 | < 0.023 | 3.8 | 0.027 | 15.9 |
| 6020 | Calcium | 7440-70-2 | UG/L | -- | -- | -- | 127000 | 102000 | 65700 | 296000 | 93900 | 65300 | 117000 | 94700 | 250000 | 87000 | 67500 | 156000 | 128000 | 94200 | 348000 | 98900 | 495000 |
| 6020 | Chromium | 7440-47-3 | UG/L | 100 | -- | -- | 9.3 | 5.9 | 26.0 | 3.0 | 2.6 | 26.7 | 1.8 | 0.63 B | 48.4 | 0.96 B | 4.4 | 68.5 | 15.0 | 1.8 | 89.8 | 3.4 | 217 |
| 6020 | Cobalt | 7440-48-4 | UG/L | -- | -- | 730 | 1.8 | 0.34 B | 0.76 | 1.5 | 1.1 | 0.75 | 0.27 | 0.27 B | 2.6 | 3.0 | 8.3 | 1.7 | 1.2 | 0.50 | 99.5 | 0.57 | 322 |
| 6020 | Copper | 7440-50-8 | UG/L | 1300 | 1000 | 1400 | 4.9 | 1.4 | 2.5 | 4.8 | 1.7 | 2.6 | 0.90 | 0.45 B | 7.0 | 2.3 | 8.4 | 3.5 | 2.2 | 0.59 | 51.1 | 0.90 | 498 |
| 6020 | Iron | 7439-89-6 | UG/L | -- | 300 | 26000 | 16600 | 3030 J | 275 | **57600** | 11400 | 270 | 3290 | 4770 J | 14500 J | 872 J | 13200 J | 3850 | 6580 | 7880 | 12900 | 8030 | **231000** |
| 6020 | Lead | 7439-92-1 | UG/L | 15 | -- | 15 | 0.89 | 0.72 B | 0.34 | 0.76 | 1.5 | 0.33 | 0.27 | 0.087 B | 6.5 | 0.53 B | 3.5 | 2.0 | 0.85 | 0.17 | 6.5 | 0.32 | **201** |
| 6020 | Magnesium | 7439-95-4 | UG/L | -- | -- | -- | 108000 | 42500 | 35800 | 101000 | 38800 | 35300 | 62100 | 40900 | 111000 | 41000 | 29100 | 65000 | 59700 | 38000 | 25600 | 38800 | 184000 |
| 6020 | Manganese | 7439-96-5 | UG/L | -- | 50 | 1700 | **11200** | 304 | 90.5 | **5880** | 708 J | 88.0 | 323 | 314 | 684 | 2380 | **4840** | 375 | 309 | 640 | 14600 | 462 | **208000** |
| 6020 | Nickel | 7440-02-0 | UG/L | -- | -- | 730 | 18.8 | 6.9 | 25.2 | 26.4 | 17.9 | 24.9 | 17.2 | 11.4 | 62.5 | 50.8 | 31.9 | 58.8 | 11.5 | 9.7 | 179 | 9.1 | 467 |
| 6020 | Potassium | 7440-09-7 | UG/L | -- | -- | -- | 10900 | 1610 B | 1090 | 5020 | 2990 | 1080 | 1500 | 4060 B | 1340 B | 620 B | 609 B | 2080 | 2940 | 2320 | 2700 | 4350 | 21200 |
| 6020 | Selenium | 7782-49-2 | UG/L | 50 | -- | 180 | < 0.11 | < 0.11 | < 0.11 | 0.68 | 0.34 B J | < 0.11 | < 0.11 | < 0.11 | 0.21 B | 1.2 | 0.25 B | < 0.11 | < 0.11 | < 0.11 | 10.1 | < 0.11 | 5.5 B |
| 6020 | Silver | 7440-22-4 | UG/L | -- | 100 | 180 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | 0.29 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | 0.98 B |
| 6020 | Sodium | 7440-23-5 | UG/L | -- | -- | -- | 132000 | 17400 | 93300 | 1290000 | 37600 | 92100 | 164000 | 35600 | 43800 | 169000 | 158000 | 61500 | 41100 | 180000 | 2140000 | 47000 | 959000 |
| 6020 | Thallium | 7440-28-0 | UG/L | 2 | -- | 2.6 | < 0.019 | < 0.019 | < 0.019 | < 0.019 | < 0.019 | < 0.019 | < 0.019 | < 0.019 | 0.026 B | 0.060 B | 0.11 B | 0.022 | < 0.019 | < 0.019 | 1.3 | < 0.019 | **4.1** |
| 6020 | Vanadium | 7440-62-2 | UG/L | -- | -- | 180 | 20.7 | 0.64 B | 2.0 | 15.8 | 2.0 | 1.5 | 0.98 | 0.17 B | 2.6 | 1.2 | 10.1 | 0.92 | 1.6 | 0.78 | 3.6 | 0.98 | **486** |
| 6020 | Zinc | 7440-66-6 | UG/L | -- | 5000 | 11000 | 33.9 | 25.8 | 17.5 | 31.8 | 19.4 | 17.5 | 15.6 | 9.8 B | 53.7 | 13.2 | 29.9 | 23.0 | 11.9 | 13.0 | 408 | 9.8 | 1170 |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | UG/L | -- | -- | 0.28 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | 0.11 COL | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.077 | < 0.0077 | < 0.77 |
| 8081A | 4,4'-DDE | 72-55-9 | UG/L | -- | -- | 0.2 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | 0.026 J COL | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.75 |
| 8081A | 4,4'-DDT | 50-29-3 | UG/L | -- | -- | 0.2 | < 0.015 | < 0.015 | < 0.015 | < 0.15 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.15 | < 0.015 | < 1.5 |
| 8081A | Aldrin | 309-00-2 | UG/L | -- | -- | 0.004 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | **0.11 COL** | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.059 | < 0.0059 | < 0.59 |
| 8081A | alpha-BHC | 319-84-6 | UG/L | -- | -- | 0.011 | < 0.0053 | < 0.0053 | < 0.0053 | **0.17** | < 0.0053 | < 0.0053 | **0.014** | < 0.0053 | < 0.0053 | **0.10 COL** | **0.099** | < 0.0053 | < 0.0053 | < 0.0053 | < 0.053 | < 0.0053 | < 0.53 |
| 8081A | alpha-Chlordane | 5103-71-9 | UG/L | -- | -- | -- | < 0.0053 | < 0.0053 | < 0.0053 | < 0.053 | < 0.0053 | < 0.0053 | 0.034 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | 0.0077 | < 0.0053 | < 0.053 | < 0.0053 | < 0.53 |
| 8081A | beta-BHC | 319-85-7 | UG/L | -- | -- | 0.037 | 0.010 | < 0.0087 | < 0.0087 | < 0.087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.087 | < 0.0087 | < 0.87 |
| 8081A | Chlordane (technical) | 57-74-9 | UG/L | 2 | -- | 0.19 | < 0.14 | < 0.14 | < 0.14 | < 1.4 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 1.4 | < 0.14 | < 14 |
| 8081A | delta-BHC | 319-86-8 | UG/L | -- | -- | -- | < 0.0058 | < 0.0058 | 0.0093 | < 0.058 | < 0.0058 | 0.0087 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | 0.018 J B COL | < 0.0058 | 0.0089 | < 0.0058 | 1.3 | < 0.0058 | < 0.58 |
| 8081A | Dieldrin | 60-57-1 | UG/L | -- | -- | 0.0042 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | **0.13 J COL** | < 0.0063 | < 0.63 |
| 8081A | Endosulfan I | 959-98-8 | UG/L | -- | -- | -- | < 0.0058 | < 0.0058 | < 0.0058 | < 0.058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.058 | < 0.0058 | < 0.58 |
| 8081A | Endosulfan II | 33213-65-9 | UG/L | -- | -- | -- | < 0.007 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | 0.59 COL | < 0.007 | < 0.7 |
| 8081A | Endosulfan sulfate | 1031-07-8 | UG/L | -- | -- | -- | < 0.0057 | < 0.0057 | < 0.0057 | < 0.057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.057 | < 0.0057 | < 0.57 |
| 8081A | Endrin | 72-20-8 | UG/L | 2 | -- | 11 | 0.014 | < 0.0079 | < 0.0079 | < 0.079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | 0.062 COL | 0.014 J COL | < 0.0079 | 0.011 | < 0.0079 | 0.12 J COL | < 0.0079 | < 0.79 |
| 8081A | Endrin aldehyde | 7421-93-4 | UG/L | -- | -- | -- | 0.013 | < 0.0088 | < 0.0088 | < 0.088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.088 | < 0.0088 | < 0.88 |
| 8081A | Endrin ketone | 53494-70-5 | UG/L | -- | -- | -- | < 0.007 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.07 | < 0.007 | < 0.7 |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | UG/L | 0.2 | -- | 0.052 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | **0.14** | 0.040 J COL | < 0.0069 | < 0.0069 | < 0.0069 | **1.3** | < 0.0069 | < 0.69 |
| 8081A | gamma-Chlordane | 5103-74-2 | UG/L | -- | -- | -- | < 0.0091 | < 0.0091 | 0.039 | < 0.091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | 0.96 COL | < 0.0091 | < 0.91 |
| 8081A | Heptachlor | 76-44-8 | UG/L | 0.4 | -- | 0.015 | < 0.0077 | < 0.0077 | < 0.0077 | **0.26** | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.077 | < 0.0077 | < 0.77 |
| 8081A | Heptachlor epoxide | 1024-57-3 | UG/L | 0.2 | -- | 0.0074 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.075 | < 0.0075 | < 0.75 |
| 8081A | Methoxychlor | 72-43-5 | UG/L | 40 | -- | 180 | < 0.013 | < 0.013 | 0.014 | < 0.13 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.13 | < 0.013 | < 1.3 |
| 8081A | Toxaphene | 8001-35-2 | UG/L | 3 | -- | 0.061 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 37 |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | 1.5 | < 0.24 | 0.41 | < 1.2 | < 0.24 | 0.35 | 2.2 | 0.49 J COL | 2.9 | 0.87 COL | 0.61 | 0.73 | 0.32 | 12 | **340** | 0.62 | **210** |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | UG/L | 200 | -- | 840 | < 3.6 | < 0.36 | < 0.36 | < 7.2 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 3.6 | < 0.36 | < 0.36 | < 7.2 | < 3.6 | < 0.36 | < 36 | < 0.36 | < 720 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | UG/L | -- | -- | 0.055 | < 3.1 | < 0.31 | < 0.31 | < 6.2 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 3.1 | < 0.31 | < 0.31 | < 6.2 | < 3.1 | < 0.31 | < 31 | < 0.31 | < 620 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | UG/L | 5 | -- | 0.2 | < 3.5 | < 0.35 | < 0.35 | < 7 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 3.5 | < 0.35 | < 0.35 | < 7 | < 3.5 | < 0.35 | < 35 | < 0.35 | < 700 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | UG/L | -- | -- | 1200 | < 3.7 | < 0.37 | < 0.37 | < 7.5 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 7.5 | < 3.7 | < 0.37 | < 37 | < 0.37 | < 750 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | UG/L | 7 | -- | 340 | < 4.3 | < 0.43 | < 0.43 | < 8.5 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 4.3 | < 0.43 | < 0.43 | < 8.5 | < 4.3 | < 0.43 | < 43 | < 0.43 | < 850 |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | UG/L | 0.05 | -- | 0.0056 | < 3 | < 0.3 | < 0.3 | < 6 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 3 | < 0.3 | < 0.3 | < 6 | < 3 | < 0.3 | < 30 | < 0.3 | < 600 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | **56** | < 0.43 | < 0.43 | **490** | < 0.43 | < 0.43 | **60** | < 0.43 | < 4.3 | **81** | 12 | < 8.7 | 6.1 | 0.51 | **1700** | < 0.43 | < 870 |
| 8260B | 1,2-Dichloroethane | 107-06-2 | UG/L | 5 | -- | 0.12 | 430 | **1.2** | **0.62** | **70** | < 0.39 | **0.61** | **2.2** | < 0.39 | **420** | **11** | **2.0** | **1600** | **1000** | **0.46** | **140** | **27** | **84000** |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | UG/L | -- | -- | -- | < 7.3 | < 0.73 | < 0.73 | < 15 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 7.3 | 0.74 J | < 0.73 | < 15 | < 7.3 | < 0.73 | < 73 | < 0.73 | < 1500 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | UG/L | 5 | -- | 0.17 | < 3.7 | < 0.37 | < 0.37 | < 7.5 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 7.5 | < 3.7 | < 0.37 | < 37 | < 0.37 | < 750 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | < 3.9 | < 0.39 | < 0.39 | < 7.7 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 3.9 | < 0.39 | < 0.39 | < 7.7 | < 3.9 | < 0.39 | < 39 | < 0.39 | < 770 |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 9MW-1 7/13/2008 | DUP-1 7/10/2008 | DUP-2 7/13/2008 | DUP-3 7/13/2008 | DUP-4 7/25/2008 | EMW-1 7/13/2008 | EMW-4 7/13/2008 | EMW-6 7/9/2008 | EMW-6A 7/9/2008 | EMW6-B 7/8/2008 | EMW6-C 7/8/2008 | EMW-7 7/12/2008 | MW-13 7/12/2008 | MW-15 7/13/2008 | MW-16 7/11/2008 | MW-17 7/12/2008 | MW-18 7/11/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | < 3.8 | < 0.38 | < 0.38 | **13** | < 0.38 | < 0.38 | **0.96** | < 0.38 | < 3.8 | **1.8** | **0.88 J** | < 7.5 | < 3.8 | **0.76** | < 38 | < 0.38 | < 750 |
| 8260B | 2-Butanone (MEK) | 78-93-3 | UG/L | -- | -- | 7100 | < 8.4 | < 0.84 | < 0.84 | < 17 | < 0.84 | < 0.84 | 1.3 | < 0.84 | < 8.4 | < 0.84 | < 0.84 | < 17 | < 8.4 | < 0.84 | **9200** | 1.0 | < 1700 |
| 8260B | 2-Hexanone | 591-78-6 | UG/L | -- | -- | -- | < 2.7 | < 0.27 | < 0.27 | < 5.3 | 0.65 J | < 0.27 | < 0.27 | < 0.27 | < 2.7 | < 0.27 | < 0.27 | < 5.3 | < 2.7 | < 0.27 | < 27 | < 0.27 | < 530 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | UG/L | -- | -- | 2000 | < 4.2 | < 0.42 | < 0.42 | 34 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 4.2 | < 0.42 | < 0.42 | < 8.3 | < 4.2 | 0.64 | < 42 | < 0.42 | < 830 |
| 8260B | Acetone | 67-64-1 | UG/L | -- | -- | 5500 | 13 | < 0.82 | 4.0 | 110 | 3.5 J | 3.6 | 19 | < 0.82 | < 8.2 | 1.5 J | 2.8 J | < 16 | < 8.2 | 6.8 | 5400 | 3.6 | < 1600 |
| 8260B | Benzene | 71-43-2 | UG/L | 5 | -- | 0.35 | < 3.9 | < 0.39 | < 0.39 | **51** | < 0.39 | < 0.39 | **2.5** | < 0.39 | < 3.9 | **0.83 J** | **0.81 J** | < 7.8 | < 3.9 | **21** | < 39 | < 0.39 | < 780 |
| 8260B | Bromobenzene | 108-86-1 | UG/L | -- | -- | 23 | < 3.9 | < 0.39 | < 0.39 | < 7.9 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 3.9 | < 0.39 | < 0.39 | < 7.9 | < 3.9 | < 0.39 | < 39 | < 0.39 | < 790 |
| 8260B | Bromochloromethane | 74-97-5 | UG/L | -- | -- | -- | < 3.7 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 7.4 | < 3.7 | < 0.37 | < 37 | < 0.37 | < 740 |
| 8260B | Bromodichloromethane | 75-27-4 | UG/L | -- | -- | 0.18 | < 3.7 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 7.4 | < 3.7 | < 0.37 | < 37 | < 0.37 | < 740 |
| 8260B | Bromoform | 75-25-2 | UG/L | -- | -- | 8.5 | < 2.7 | < 0.27 | < 0.27 | < 5.4 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 2.7 | < 0.27 | < 0.27 | < 5.4 | < 2.7 | < 0.27 | < 27 | < 0.27 | < 540 |
| 8260B | Bromomethane | 74-83-9 | UG/L | -- | -- | 8.7 | < 7.2 | < 0.72 | < 0.72 | < 14 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 7.2 | < 0.72 | < 0.72 | < 14 | < 7.2 | < 0.72 | < 72 | < 0.72 | < 1400 |
| 8260B | Carbon disulfide | 75-15-0 | UG/L | -- | -- | 1000 | < 3.8 | < 0.38 | < 0.38 | < 7.7 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 3.8 | < 0.38 | < 0.38 | < 7.7 | < 3.8 | < 0.38 | < 38 | 0.73 | < 770 |
| 8260B | Carbon tetrachloride | 56-23-5 | UG/L | 5 | -- | 0.17 | < 4.1 | < 0.41 | < 0.41 | < 8.1 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 4.1 | < 0.41 | < 0.41 | < 8.1 | < 4.1 | < 0.41 | < 41 | < 0.41 | < 810 |
| 8260B | Chlorobenzene | 108-90-7 | UG/L | 100 | -- | 91 | 13 | < 0.33 | < 0.33 | **880** | < 0.33 | < 0.33 | **100** | < 0.33 | < 3.3 | 23 | 14 | < 6.7 | < 3.3 | **93** | < 33 | < 0.33 | < 670 |
| 8260B | Chloroethane | 75-00-3 | UG/L | -- | -- | 3.9 | < 4.5 | < 0.45 | < 0.45 | **15** | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 4.5 | < 0.45 | < 0.45 | < 9 | < 4.5 | < 0.45 | < 45 | < 0.45 | < 900 |
| 8260B | Chloroform | 67-66-3 | UG/L | -- | -- | 0.17 | < 3.5 | < 0.35 | < 0.35 | < 7 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 3.5 | < 0.35 | < 0.35 | < 7 | < 3.5 | < 0.35 | < 35 | < 0.35 | < 700 |
| 8260B | Chloromethane | 74-87-3 | UG/L | -- | -- | 2.1 | < 4.8 | < 0.48 | < 0.48 | < 9.6 | < 0.48 | < 0.48 | 0.50 | < 0.48 | < 4.8 | < 0.48 | < 0.48 | < 9.6 | < 4.8 | 1.2 | < 48 | < 0.48 | < 960 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | UG/L | 70 | -- | 61 | < 3.7 | < 0.37 | < 0.37 | < 7.3 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | 0.51 J | < 0.37 | < 7.3 | < 3.7 | < 0.37 | < 37 | < 0.37 | < 730 |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | UG/L | -- | -- | 0.4 | < 3.1 | < 0.31 | < 0.31 | < 6.1 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 3.1 | < 0.31 | < 0.31 | < 6.1 | < 3.1 | < 0.31 | < 31 | < 0.31 | < 610 |
| 8260B | Dibromochloromethane | 124-48-1 | UG/L | -- | -- | 0.13 | < 2.8 | < 0.28 | < 0.28 | < 5.6 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 2.8 | < 0.28 | < 0.28 | < 5.6 | < 2.8 | < 0.28 | < 28 | < 0.28 | < 560 |
| 8260B | Dibromomethane | 74-95-3 | UG/L | -- | -- | 61 | < 4.1 | < 0.41 | < 0.41 | < 8.1 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 4.1 | < 0.41 | < 0.41 | < 8.1 | < 4.1 | < 0.41 | < 41 | < 0.41 | < 810 |
| 8260B | Ethylbenzene | 100-41-4 | UG/L | 700 | -- | 1300 | < 4.2 | < 0.42 | < 0.42 | 150 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 4.2 | 3.6 | 5.2 | < 8.3 | < 4.2 | 2.1 | 51 J | < 0.42 | < 830 |
| 8260B | Methylene chloride | 75-09-2 | UG/L | 5 | -- | 4.3 | **12** | < 0.42 | < 0.42 | **19** | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 4.2 | < 0.42 | < 0.42 | < 8.4 | < 4.2 | < 0.42 | **2000** | 1.8 | **6500** |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | UG/L | -- | -- | -- | < 8.3 | < 0.83 | < 0.83 | 200 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 8.3 | < 0.83 | < 0.83 | < 17 | < 8.3 | < 0.83 | 220 | < 0.83 | < 1700 |
| 8260B | o-Xylene | 95-47-6 | UG/L | -- | -- | 1400 | < 3.9 | < 0.39 | < 0.39 | 190 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 3.9 | < 0.39 | < 0.39 | < 7.7 | < 3.9 | 0.42 | 120 | < 0.39 | < 770 |
| 8260B | Styrene | 100-42-5 | UG/L | 100 | -- | 1600 | < 3.1 | < 0.31 | < 0.31 | 6.4 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 3.1 | < 0.31 | < 0.31 | < 6.2 | < 3.1 | < 0.31 | < 31 | < 0.31 | < 620 |
| 8260B | Tetrachloroethene | 127-18-4 | UG/L | 5 | -- | 0.11 | < 4 | < 0.4 | < 0.4 | < 8 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 4 | < 0.4 | < 0.4 | < 8 | < 4 | < 0.4 | < 40 | < 0.4 | < 800 |
| 8260B | Toluene | 108-88-3 | UG/L | 1000 | -- | 2300 | < 3.9 | < 0.39 | < 0.39 | 950 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 3.9 | < 0.39 | < 0.39 | < 7.8 | < 3.9 | 2.8 | **2900** | 2.1 | 1200 J |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | UG/L | 100 | -- | 110 | < 3.7 | < 0.37 | < 0.37 | < 7.4 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 3.7 | < 0.37 | < 0.37 | < 7.4 | < 3.7 | < 0.37 | < 37 | < 0.37 | < 740 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | UG/L | -- | -- | 0.4 | < 2.1 | < 0.21 | < 0.21 | < 4.2 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 2.1 | < 0.21 | < 0.21 | < 4.2 | < 2.1 | < 0.21 | < 21 | < 0.21 | < 420 |
| 8260B | Trichloroethene | 79-01-6 | UG/L | 5 | -- | 0.028 | < 4.5 | < 0.45 | < 0.45 | < 9 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 4.5 | < 0.45 | < 0.45 | < 9 | < 4.5 | < 0.45 | < 45 | < 0.45 | < 900 |
| 8260B | Trichlorofluoromethane | 75-69-4 | UG/L | -- | -- | 1300 | < 4.7 | < 0.47 | < 0.47 | < 9.5 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 4.7 | < 0.47 | < 0.47 | < 9.5 | < 4.7 | < 0.47 | < 47 | < 0.47 | < 950 |
| 8260B | Vinyl acetate | 108-05-4 | UG/L | -- | -- | 410 | < 2.9 | < 0.29 | < 0.29 | < 5.9 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 2.9 | < 0.29 | < 0.29 | < 5.9 | < 2.9 | < 0.29 | < 29 | < 0.29 | < 590 |
| 8260B | Vinyl chloride | 75-01-4 | UG/L | 2 | -- | 0.015 | < 4 | < 0.4 | < 0.4 | < 8 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 4 | < 0.4 | < 0.4 | < 8 | **6.2** | < 0.4 | < 40 | < 0.4 | < 800 |
| 8260B | Xylenes (total) | 1330-20-7 | UG/L | 10000 | -- | 200 | < 12 | < 1.2 | < 1.2 | **390** | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 12 | < 1.2 | < 1.2 | < 24 | < 12 | < 1.2 | **350** | < 1.2 | < 2400 |
| | **VOC TICs** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,2,3-Trimethylbenzene | 526-73-8 | UG/L | -- | -- | -- | -- | -- | -- | 100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2,4-Trimethylbenzene | 95-36-3 | UG/L | -- | -- | -- | -- | -- | -- | 450 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | benzo[b,e][1,4]diazepin-11-one, 5-(3-a | 13450-73-2 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1-Propene, 2-methyl- | 115-11-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Butanone, 3,3-dimethyl- | 75-97-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | UG/L | -- | -- | -- | < 6.2 | < 0.62 | < 0.62 | < 12 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 6.2 | < 0.62 | < 0.62 | < 12 | < 6.2 | < 0.62 | < 62 | < 0.62 | < 1200 |
| 8260B | 2-Propanol, 2-methyl- | 75-65-0 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | enzaldehyde, 2,5-bis[(trimethylsilyl)ox | 56114-69-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, (1-methylethyl)- | 98-82-8 | UG/L | -- | -- | 660 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 | 2.6 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2,3,5-tetramethyl- | 527-53-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.7 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2,4-trimethyl- | 95-63-6 | UG/L | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.5 | 3.1 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2-diethyl- | 135-01-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.8 | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,3-diethyl- | 141-93-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 59 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,4-diethyl- | 105-05-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-ethyl-2,4-dimethyl- | 874-41-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.0 | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-ethyl-2-methyl- | 611-14-3 | UG/L | -- | -- | -- | -- | -- | -- | 120 | -- | -- | -- | -- | -- | 6.4 | 2.7 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-methyl-2-(1-methylethyl)- | 527-84-4 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-methyl-4-(1-methylethyl)- | 99-87-6 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | -- | -- | -- | -- | -- | -- |
| 8260B | zene, 1-phenyl-4-(2-cyano-2-phenyleth | 27869-56-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 2-ethenyl-1,4-dimethyl- | 2039-89-6 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 2-ethyl-1,3-dimethyl- | 2870-04-4 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 | 1.9 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, propyl- | 103-65-1 | UG/L | -- | -- | 61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | 41 | -- | -- | -- | -- | -- | -- |
| 8260B | Benzenepropanal | 104-53-0 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.7 | 2.3 | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 9MW-1 7/13/2008 | DUP-1 7/10/2008 | DUP-2 7/13/2008 | DUP-3 7/13/2008 | DUP-4 7/25/2008 | EMW-1 7/13/2008 | EMW-4 7/13/2008 | EMW-6 7/9/2008 | EMW-6A 7/9/2008 | EMW6-B 7/8/2008 | EMW6-C 7/8/2008 | EMW-7 7/12/2008 | MW-13 7/12/2008 | MW-15 7/13/2008 | MW-16 7/11/2008 | MW-17 7/12/2008 | MW-18 7/11/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | zoic acid, 2-[(trimethylsilyl)oxy]-, trime | 3789-85-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 73 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Cyclotetrasiloxane, octamethyl- | 556-67-2 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 320 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Cyclotrisiloxane, hexamethyl- | 541-05-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Dimethyl sulfide | 75-18-3 | UG/L | -- | -- | -- | -- | -- | -- | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Ethanone, 1-(2,4-dimethylphenyl)- | 89-74-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.8 | -- | -- | -- | -- | -- | -- |
| 8260B | Ethenamine, n-methylene- | 38239-27-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 310 | -- | -- |
| 8260B | Isobutane | 75-28-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Propene | 115-07-1 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Tetrasiloxane, decamethyl- | 141-62-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Unknown | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 46 | -- | -- | -- | -- | -- | -- | -- |
| **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | UG/L | 70 | -- | 8.2 | < 0.81 | < 0.81 | < 8.2 | < 4.1 | < 0.82 | < 0.81 | < 0.84 | < 0.81 | < 0.82 | < 0.81 | < 0.81 | < 0.82 | < 0.82 | < 0.81 | 2.4 J | < 0.81 | < 0.84 |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | 0.94 | < 0.93 | **570** | **530** | < 0.95 | < 0.94 | **50** | < 0.93 | < 0.95 | **59** | 11 | < 0.95 | < 0.95 | **51** | **1800 J** | < 0.94 | **300** |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | < 0.96 | < 0.95 | < 9.7 | < 4.9 | < 0.97 | < 0.96 | < 0.99 | < 0.95 | < 0.97 | < 0.96 | < 0.95 | < 0.97 | < 0.97 | < 0.95 | < 0.98 | < 0.96 | < 0.99 |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | < 0.78 | < 0.78 | **15** | **14** | < 0.79 | < 0.78 | **0.87** | < 0.78 | < 0.79 | **1.4 J** | < 0.78 | < 0.79 | < 0.79 | **1.3** | < 0.8 | < 0.78 | **5.1 J** |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | UG/L | -- | -- | 3700 | < 0.97 | < 0.96 | < 9.8 | < 4.9 | < 0.98 | < 0.97 | < 1 | < 0.96 | < 0.98 | < 0.97 | < 0.96 | < 0.98 | < 0.98 | < 0.96 | < 0.99 | < 0.97 | < 1 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | UG/L | -- | -- | 6.1 | < 1.1 | < 1.1 | < 11 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | UG/L | -- | -- | 110 | < 1 | < 0.99 | 49 | 50 | < 1 | < 1 | < 1 | < 0.99 | < 1 | < 1 | < 0.99 | < 1 | < 1 | < 0.99 | 30 | < 1 | < 1 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | UG/L | -- | -- | 730 | < 1.8 | < 1.8 | 29 | 28 | < 1.9 | < 1.8 | < 1.9 | < 1.8 | < 1.9 | < 1.8 | < 1.8 | < 1.9 | < 1.9 | < 1.8 | < 1.9 | < 1.8 | < 1.9 |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | UG/L | -- | -- | 73 | < 3.6 | < 3.6 | < 37 | < 18 | < 3.7 | < 3.6 | < 3.7 | < 3.6 | < 3.7 | < 3.6 | < 3.6 | < 3.7 | < 3.7 | < 3.6 | **16000** | < 3.6 | < 3.7 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | UG/L | -- | -- | 73 | < 2.8 | < 2.8 | < 28 | < 14 | < 2.8 | < 2.8 | < 2.9 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.9 | < 2.8 | < 2.9 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | UG/L | -- | -- | 37 | < 1 | < 0.98 | < 10 | < 5 | < 1 | < 1 | < 1 | < 0.98 | < 1 | < 1 | < 0.98 | < 1 | < 1 | < 0.98 | < 1 | < 1 | < 1 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | UG/L | -- | -- | 490 | < 1.4 | < 1.4 | < 14 | < 7.2 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 |
| 8270C | 2-Chlorophenol | 95-57-8 | UG/L | -- | -- | 30 | < 1.4 | < 1.4 | < 15 | < 7.3 | < 1.5 | < 1.4 | < 1.5 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.5 | < 1.5 | < 1.4 | < 1.5 | < 1.4 | < 1.5 |
| 8270C | 2-Methylnaphthalene | 91-57-6 | UG/L | -- | -- | -- | < 0.94 | < 0.93 | < 9.5 | < 4.7 | < 0.95 | < 0.94 | < 0.97 | < 0.93 | < 0.95 | < 0.94 | < 0.93 | < 0.95 | < 0.95 | < 0.93 | < 0.96 | < 0.94 | < 0.97 |
| 8270C | 2-Methylphenol | 95-48-7 | UG/L | -- | -- | 1800 | 43 | < 1.8 | 770 | 710 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | 8.1 J |
| 8270C | 2-Nitroaniline | 88-74-4 | UG/L | -- | -- | 110 | < 1.2 | < 1.1 | < 12 | < 5.8 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | 2-Nitrophenol | 88-75-5 | UG/L | -- | -- | -- | < 1 | < 1 | < 10 | < 5.2 | < 1 | < 1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | 120 | < 1 | < 1.1 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | UG/L | -- | -- | 0.15 | < 1.7 | < 1.6 | < 17 | < 8.4 | < 1.7 | < 1.7 | < 1.7 | < 1.6 | < 1.7 | < 1.7 | < 1.6 | < 1.7 | < 1.7 | < 1.6 | < 1.7 | < 1.7 | < 1.7 |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | UG/L | -- | -- | -- | 13 | < 0.98 | 6400 | 5700 | < 1 | < 1 | 79 | < 0.98 | 180 | 56000 | 23000 | < 1 | < 1 | 69 | < 1 | < 1 | < 1 |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | UG/L | -- | -- | 180 | < 2.5 | < 2.5 | **480** | **430** | < 2.5 | < 2.5 | < 2.6 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | 3.9 J | < 2.5 | < 2.6 |
| 8270C | 3-Nitroaniline | 99-09-2 | UG/L | -- | -- | -- | < 1.2 | < 1.2 | < 12 | < 6 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | UG/L | -- | -- | -- | < 3.5 | < 3.4 | < 35 | < 17 | < 3.5 | < 3.5 | < 3.6 | < 3.4 | < 3.5 | < 3.5 | < 3.4 | < 3.5 | < 3.5 | < 3.4 | < 3.5 | < 3.5 | < 3.6 |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | UG/L | -- | -- | -- | < 0.91 | < 0.9 | < 9.1 | < 4.6 | < 0.91 | < 0.91 | < 0.93 | < 0.9 | < 0.91 | < 0.91 | < 0.9 | < 0.91 | < 0.91 | < 0.9 | < 0.92 | < 0.91 | < 0.93 |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | UG/L | -- | -- | -- | < 1 | < 1 | < 11 | < 5.3 | < 1.1 | < 1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1.1 |
| 8270C | 4-Chloroaniline | 106-47-8 | UG/L | -- | -- | 150 | 2100 | < 1.6 | **17000** | **16000** | < 1.6 | < 1.6 | **350** | < 1.6 | **490** | **6600** | **8300** | < 1.6 | < 1.6 | 31 | < 1.6 | < 1.6 | 2.3 J |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | UG/L | -- | -- | -- | < 1.4 | < 1.4 | < 14 | < 7 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 |
| 8270C | 4-Nitroaniline | 100-01-6 | UG/L | -- | -- | -- | < 1.1 | < 1 | < 11 | < 5.3 | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | 4-Nitrophenol | 100-02-7 | UG/L | -- | -- | 290 | < 4 | < 3.9 | < 40 | < 20 | < 4 | < 4 | < 4.1 | < 3.9 | < 4 | < 4 | < 3.9 | < 4 | < 4 | < 3.9 | **3000 J** | < 4 | < 4.1 |
| 8270C | Acenaphthene | 83-32-9 | UG/L | -- | -- | 370 | < 1.1 | < 1.1 | < 11 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Acenaphthylene | 208-96-8 | UG/L | -- | -- | -- | < 0.88 | < 0.87 | < 8.9 | < 4.4 | < 0.89 | < 0.88 | < 0.9 | < 0.87 | < 0.89 | < 0.88 | < 0.87 | < 0.89 | < 0.89 | < 0.87 | < 0.9 | < 0.88 | < 0.9 |
| 8270C | Aniline | 62-53-3 | UG/L | -- | -- | 12 | **27** | < 2 | < 20 | 87 | < 2 | < 2 | < 2 | < 2 | < 2 | 2.0 J | 4.1 J | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 8270C | Anthracene | 120-12-7 | UG/L | -- | -- | 1800 | < 1.1 | < 1.1 | < 11 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Benzo(a)anthracene | 56-55-3 | UG/L | -- | -- | 0.03 | < 1.1 | < 1.1 | < 11 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Benzo(a)pyrene | 50-32-8 | UG/L | 0.2 | -- | 0.003 | < 1.1 | < 1.1 | < 11 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | UG/L | -- | -- | 0.03 | < 0.76 | < 0.76 | < 7.7 | < 3.9 | < 0.77 | < 0.76 | < 0.79 | < 0.76 | < 0.77 | < 0.76 | < 0.76 | < 0.77 | < 0.77 | < 0.76 | < 0.78 | < 0.76 | < 0.79 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | UG/L | -- | -- | -- | < 0.74 | < 0.73 | < 7.5 | < 3.7 | < 0.75 | < 0.74 | < 0.76 | < 0.73 | < 0.75 | < 0.74 | < 0.73 | < 0.75 | < 0.75 | < 0.73 | < 0.75 | < 0.74 | < 0.76 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | UG/L | -- | -- | 0.3 | < 1.2 | < 1.2 | < 12 | < 6 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | Benzoic acid | 65-85-0 | UG/L | -- | -- | 150000 | < 13 | < 13 | < 130 | < 66 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 2700 | < 13 | 170 J |
| 8270C | Benzyl alcohol | 100-51-6 | UG/L | -- | -- | 11000 | < 1.6 | < 1.6 | < 16 | < 8 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | 26 | < 1.6 | < 1.6 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 11 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | UG/L | -- | -- | 0.0098 | < 1.2 | < 1.1 | < 12 | < 5.9 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | UG/L | -- | -- | 0.27 | < 1.2 | < 1.2 | < 12 | < 6 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | UG/L | 6 | -- | 4.8 | < 2.7 | < 2.6 | < 27 | < 13 | < 2.7 | < 2.7 | < 2.7 | < 2.6 | < 2.7 | < 2.7 | < 2.6 | **5.5** | < 2.7 | < 2.6 | < 2.7 | 3.2 | **11** |
| 8270C | Butyl benzyl phthalate | 85-68-7 | UG/L | -- | -- | 7300 | < 0.96 | < 0.95 | < 9.7 | < 4.8 | < 0.97 | < 0.96 | < 0.99 | < 0.95 | < 0.97 | < 0.96 | < 0.95 | < 0.97 | < 0.97 | < 0.95 | < 0.98 | < 0.96 | < 0.99 |
| 8270C | Chrysene | 218-01-9 | UG/L | -- | -- | 3 | < 1 | < 1 | < 11 | < 5.3 | < 1.1 | < 1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1.1 |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | UG/L | -- | -- | 0.003 | < 0.98 | < 0.97 | < 9.9 | < 4.9 | < 0.99 | < 0.98 | < 1 | < 0.97 | < 0.99 | < 0.98 | < 0.97 | < 0.99 | < 0.99 | < 0.97 | < 1 | < 0.98 | < 1 |
| 8270C | Dibenzofuran | 132-64-9 | UG/L | -- | -- | 12 | < 1 | < 1 | < 10 | < 5.2 | < 1 | < 1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1.1 |
| 8270C | Diethyl phthalate | 84-66-2 | UG/L | -- | -- | 29000 | < 1.4 | < 1.4 | < 14 | < 7.2 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.5 |
| 8270C | Dimethyl phthalate | 131-11-3 | UG/L | -- | -- | 370000 | < 1.2 | < 1.2 | < 12 | < 6.2 | < 1.2 | < 1.2 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.3 | < 1.2 | < 1.3 |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 9MW-1 7/13/2008 | DUP-1 7/10/2008 | DUP-2 7/13/2008 | DUP-3 7/13/2008 | DUP-4 7/25/2008 | EMW-1 7/13/2008 | EMW-4 7/13/2008 | EMW-6 7/9/2008 | EMW-6A 7/9/2008 | EMW6-B 7/8/2008 | EMW6-C 7/8/2008 | EMW-7 7/12/2008 | MW-13 7/12/2008 | MW-15 7/13/2008 | MW-16 7/11/2008 | MW-17 7/12/2008 | MW-18 7/11/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Di-n-butyl phthalate | 84-74-2 | UG/L | -- | -- | 3700 | < 1.1 | < 1.1 | < 11 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Di-n-octyl phthalate | 117-84-0 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 11 | < 5.4 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | < 0.4 | < 0.4 | < 4 | < 2 | < 0.4 | < 0.4 | < 0.41 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | **8700** | < 0.4 | < 0.41 |
| 8270C | Fluoranthene | 206-44-0 | UG/L | -- | -- | 1500 | < 0.89 | < 0.88 | < 9 | < 4.5 | < 0.9 | < 0.89 | < 0.92 | < 0.88 | < 0.9 | < 0.89 | < 0.88 | < 0.9 | < 0.9 | < 0.88 | < 0.91 | < 0.89 | < 0.92 |
| 8270C | Fluorene | 86-73-7 | UG/L | -- | -- | 240 | < 0.98 | < 0.97 | < 9.9 | < 5 | < 0.99 | < 0.98 | < 1 | < 0.97 | < 0.99 | < 0.98 | < 0.97 | < 0.99 | < 0.99 | < 0.97 | < 1 | < 0.98 | < 1 |
| 8270C | Hexachlorobenzene | 118-74-1 | UG/L | 1 | -- | 0.042 | < 1.4 | < 1.4 | < 14 | < 7.2 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.5 |
| 8270C | Hexachlorobutadiene | 87-68-3 | UG/L | -- | -- | 0.86 | < 1.2 | < 1.2 | < 12 | < 6.2 | < 1.2 | < 1.2 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.3 | < 1.2 | < 1.3 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | UG/L | 50 | -- | 220 | < 3.3 | < 3.3 | < 33 | < 17 | < 3.3 | < 3.3 | < 3.4 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.4 | < 3.3 | < 3.4 |
| 8270C | Hexachloroethane | 67-72-1 | UG/L | -- | -- | 4.8 | < 0.91 | < 0.9 | < 9.2 | < 4.6 | < 0.92 | < 0.91 | < 0.94 | < 0.9 | < 0.92 | < 0.91 | < 0.9 | < 0.92 | < 0.92 | < 0.9 | < 0.93 | < 0.91 | < 0.94 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | UG/L | -- | -- | 0.03 | < 1.1 | < 1.1 | < 11 | < 5.6 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Isophorone | 78-59-1 | UG/L | -- | -- | 71 | 10 | < 1.1 | **250** | 37 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | **380** |
| 8270C | Naphthalene | 91-20-3 | UG/L | -- | -- | 6.2 | < 0.85 | < 0.84 | < 8.6 | < 4.3 | < 0.86 | < 0.85 | < 0.88 | < 0.84 | < 0.86 | < 0.85 | < 0.84 | < 0.86 | < 0.86 | < 0.84 | < 0.87 | < 0.85 | < 0.88 |
| 8270C | Nitrobenzene | 98-95-3 | UG/L | -- | -- | 3.4 | < 1.1 | < 1.1 | < 11 | < 5.5 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | UG/L | -- | -- | 0.0096 | < 1 | < 1 | < 10 | < 5.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | UG/L | -- | -- | 14 | < 0.91 | < 0.9 | < 9.2 | < 4.6 | < 0.92 | < 0.91 | < 0.94 | < 0.9 | < 0.92 | < 0.91 | < 0.9 | < 0.92 | < 0.92 | < 0.9 | < 0.93 | < 0.91 | < 0.94 |
| 8270C | Pentachlorophenol | 87-86-5 | UG/L | 1 | -- | 0.56 | < 5.3 | < 5.2 | < 53 | < 27 | < 5.3 | < 5.3 | < 5.4 | < 5.2 | < 5.3 | < 5.3 | < 5.2 | < 5.3 | < 5.3 | < 5.2 | < 5.4 | < 5.3 | < 5.4 |
| 8270C | Phenanthrene | 85-01-8 | UG/L | -- | -- | -- | < 0.97 | < 0.96 | < 9.8 | < 4.9 | < 0.98 | < 0.97 | < 1 | < 0.96 | < 0.98 | < 0.97 | < 0.96 | < 0.98 | < 0.98 | < 0.96 | < 0.99 | < 0.97 | < 1 |
| 8270C | Phenol | 108-95-2 | UG/L | -- | -- | 11000 | < 2.1 | < 2 | 97 | 41 | < 2.1 | < 2.1 | < 2.1 | < 2 | < 2.1 | < 2.1 | < 2 | < 2.1 | < 2.1 | < 2 | < 2.1 | < 2.1 | < 2.1 |
| 8270C | Propanil | 709-98-8 | UG/L | -- | -- | 180 | < 0.76 | < 0.75 | **260** | **220** | < 0.77 | < 0.76 | 3.3 | < 0.75 | 3.5 J | 4.2 J | < 0.75 | < 0.77 | < 0.77 | < 0.75 | < 0.78 | < 0.76 | **230** |
| 8270C | Pyrene | 129-00-0 | UG/L | -- | -- | 180 | < 0.89 | < 0.88 | < 9 | < 4.5 | < 0.9 | < 0.89 | < 0.92 | < 0.88 | < 0.9 | < 0.89 | < 0.88 | < 0.9 | < 0.9 | < 0.88 | < 0.91 | < 0.89 | < 0.92 |
| | **SVOC TICs** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | (4-Methoxy-phenyl)-(2-nitrocyc | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | (Methylsulphonyl)ethane | | UG/L | -- | -- | -- | -- | -- | 390 | 490 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,1,1,5,7,7,7-Heptamethyl-3,3- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,1,2-Trichloroethane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,3,5-Tetrachlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,4-Trimethylbenzene | | UG/L | -- | -- | -- | -- | -- | 480 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,5-Trithiepane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.9 | -- | -- | -- | -- | -- |
| 8270C | 1,3,4-Thiadiazole, 2,5-dime | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3,5-Trimethylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | 430 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Butadiene, 2,3-dimethyl- | | UG/L | -- | -- | -- | 6.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Dioxolane, 2-ethyl-4-methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 9.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4 Dioxane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20 | -- | -- |
| 8270C | 1,4-Dioxane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.2 | -- | -- | -- |
| 8270C | 1,4-Dithiane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.7 | -- | -- | -- | -- | -- |
| 8270C | 1,4-Naphthoquinone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Buten-3-yne, 2-tert-butyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Methoxy-4-nitro-2,3,5,6-tetr | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 68 | -- | -- |
| 8270C | 1-Methylnaphthalene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | 5.1 | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Naphthalenol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Naphthylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.9 | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Propanol, 2-amino-2-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, 5-hexyldihy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, dihydro-4-h | | UG/L | -- | -- | -- | -- | -- | -- | -- | 9.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, dihydro-5-p | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-(4-Nitrophenyl)-5-phenyl[1,3 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 25 | -- | -- | -- | -- | -- | 13 | -- | -- | -- | -- |
| 8270C | 2,5-Furandione, 3-(1,1-dimethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Hexanediol, 2,5-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | 3.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Pyrrolidinedione, 1-ethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,6 Dichlorophenol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.0 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Butanol, 1-(isopropylamino)- | | UG/L | -- | -- | -- | -- | -- | 180 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Butanone, 3,3-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chloro-4-nitrobenzhydrazide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 280 |
| 8270C | 2-Ethyl-cyclohexylamine | | UG/L | -- | -- | -- | 19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2'-Fluoropropiophenone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Hexanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Hexyne | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- | -- |
| 8270C | 2-Pentanone, 4-hydroxy-4-methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 250 | -- | -- |
| 8270C | 3,4-Dimethyl-1H-pyrrole-2-carb | | UG/L | -- | -- | -- | 22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dimethyl-o-phenylenediamin | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 56 | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 9MW-1 7/13/2008 | DUP-1 7/10/2008 | DUP-2 7/13/2008 | DUP-3 7/13/2008 | DUP-4 7/25/2008 | EMW-1 7/13/2008 | EMW-4 7/13/2008 | EMW-6 7/9/2008 | EMW-6A 7/9/2008 | EMW6-B 7/8/2008 | EMW6-C 7/8/2008 | EMW-7 7/12/2008 | MW-13 7/12/2008 | MW-15 7/13/2008 | MW-16 7/11/2008 | MW-17 7/12/2008 | MW-18 7/11/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | 3,4-Methylenedioxy-N-ethylamph | | UG/L | -- | -- | -- | -- | -- | -- | 170 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,5-Dichlorobenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2100 | -- | -- |
| 8270C | 3-Chloro-4-nitrobenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 |
| 8270C | 3-Hexanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Pentanol, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Pentanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Penten-2-ol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Penten-2-one, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 150 | -- | -- |
| 8270C | 4,5-Dimethyl-ortho-phenylenedi | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 190 | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Methoxybenzhydrazide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 5-Chloro-beznofurazan oxide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 710 |
| 8270C | 6-Amino-1,3,5-triazine-2,4(1H, | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 9-Benzhydrylidene-10-anthrone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetamide, N-(3-chlorophenyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetamide, N-(3-methylphenyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetophenone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.9 |
| 8270C | Barbital | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 29 | -- | -- | -- | -- |
| 8270C | Benzaldehyde | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 190 | -- | -- |
| 8270C | Benzaldehyde, 3-phenoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,4,5-trichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | 230 | 760 | -- | -- | 16 | -- | -- | 1.9 | 25 | -- | -- | 6.4 | -- | -- | -- |
| 8270C | Benzenamine, 2,6-dichloro- | | UG/L | -- | -- | -- | -- | -- | 1600 | 1300 | -- | -- | 91 | -- | 6.6 | -- | 86 | -- | 5.6 | -- | -- | -- | -- |
| 8270C | Benzenamine, 3-(trifluoromethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21 | -- | -- | 29 | -- | -- | -- |
| 8270C | Benzenamine, 4-chloro-N-methyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.2 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, N-ethyl-3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,2,3-trimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,3-diethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.3 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,4-dichloro-2-nitro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,4-diethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.4 | 3.9 | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1-chloro-4-isocyanato | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1-ethyl-2,4-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.8 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, methoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene,-1-nitro-2,5-dichloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzeneacetamide, N,N-dimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzeneacetic acid, 3-hydro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenesulfonamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2,4-dimethyl- | | UG/L | -- | -- | -- | 5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2-amino-5-chloro | | UG/L | -- | -- | -- | -- | -- | 520 | 500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2-amino-6-chloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3,5-dichloro-, m | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 280 |
| 8270C | Benzoic acid, 3-chloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 83 |
| 8270C | Benzoic acid, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-methyl-, methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-, methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2000 |
| 8270C | Benzoic acid, 4-chloro-2-nitro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 550 |
| 8270C | Benzoic acid, 4-chloro-3-nitro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 17 |
| 8270C | Benzoic acid, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | 530 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Bromacil | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.0 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Butanal, 3-hydroxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Caprolactam | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.7 | -- | -- | -- | -- |
| 8270C | Caprolactum | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Carbaryl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Chlorobenzene | | UG/L | -- | -- | -- | 64 | -- | -- | -- | -- | -- | -- | -- | -- | 19 | -- | -- | -- | 9.8 | -- | -- | -- |
| 8270C | Cyclohexanemethanol, 4-hydroxy | | UG/L | -- | -- | -- | -- | -- | -- | -- | 1.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Cyclohexanone, 3,3,5-trimethyl | | UG/L | -- | -- | -- | -- | -- | -- | 2400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Cyclohexasiloxane, dodecamethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Diethyl 4,4'-methylenedialloph | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.3 | -- | -- | -- | -- |
| 8270C | Diethyltoluamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.0 | -- | 5.8 | -- | -- | -- | -- | -- |
| 8270C | Dinoseb | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1200 | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | 9MW-1 7/13/2008 | DUP-1 7/10/2008 | DUP-2 7/13/2008 | DUP-3 7/13/2008 | DUP-4 7/25/2008 | EMW-1 7/13/2008 | EMW-4 7/13/2008 | EMW-6 7/9/2008 | EMW-6A 7/9/2008 | EMW6-B 7/8/2008 | EMW6-C 7/8/2008 | EMW-7 7/12/2008 | MW-13 7/12/2008 | MW-15 7/13/2008 | MW-16 7/11/2008 | MW-17 7/12/2008 | MW-18 7/11/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Dinoseb triethylamine salt | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1000 | -- | -- |
| 8270C | Disulfide, dimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethane, diazo- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethanone, 2-hydroxy-1,2-bis | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethenamine, N-methylene- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4300 | -- | -- |
| 8270C | Ethyl cyclopropanecarboxylate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethyl methanesulphinate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 41 | -- | -- | -- | -- | -- |
| 8270C | Formamide, N-(3,4-dichlorophen | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.5 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexadecenoic acid, Z-11- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexanedioic acid, dicyclohexyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexanedioic acid, dimethyl est | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hydrastindiol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.0 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methane, diethoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methanone, (2-hydroxyphenyl)(4 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.8 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methoxychlor | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Morpholine, 4-propionyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 19 | -- | -- | -- |
| 8270C | m-Phenoxybenzoic acid | | UG/L | -- | -- | -- | 67 | -- | 340 | 530 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N,N-Dimethylformamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 24 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | n-Hexadecanoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.7 | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosodimethylamine | | UG/L | -- | -- | -- | -- | -- | -- | 4.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosomorpholine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Noruron | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | n-Propylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 33 | -- | -- | -- | -- | -- | -- |
| 8270C | N-tert-Butylacetamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | o-Chloroaniline hydrochloride | | UG/L | -- | -- | -- | 410 | -- | -- | 2200 | -- | -- | 38 | -- | 1200 | 18 | 48 | -- | -- | 6.1 | -- | -- | -- |
| 8270C | Octanoic Acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | O-Methyl-N-methylcarbamate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 31 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | o-Toluidine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Oxirane, trimethyl- | | UG/L | -- | -- | -- | -- | 42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Oxybenzone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentachlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentane, 1-(1-butenyloxy)-, (Z | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentanedioic acid, dimethyl es | | UG/L | -- | -- | -- | -- | -- | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, (1,1,3,3-tetramethylbu | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 10 | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 2-(1-methylpropyl)- | | UG/L | -- | -- | -- | 38 | -- | 1200 | 530 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 3,4-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1,1,3,3-tetramethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1,1-dimethylpropyl) | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1-methylpropyl)- | | UG/L | -- | -- | -- | -- | -- | 1700 | 3200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Piperazine, 1-phenyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pronamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 150 | -- | -- |
| 8270C | Propanoic acid, 2,2-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propanoic acid, 2-methyl-, 2,2 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propionic acid, 2,2'-dithiodi- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pyrazole, 1-methyl-4-nitro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | s-Triazolo[4,3-a]pyrazine, 3-a | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Tetradecanamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Thiocyanic acid, ethyl ester | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Toluene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4700 | -- | 1300 |
| 8270C | Unknown | | UG/L | -- | -- | -- | 120 | 1.3 | 130 | 170 | 0.93 | -- | 190 | 0.16 | 0.13 | 18 | 10 | 20 | 15 | 12 | 1200 | 10 | 110 |
| 8270C | Unknown Alcohol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Amide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Amine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20 | -- | -- | -- |
| 8270C | Unknown Organic Acid | | UG/L | -- | -- | -- | 5.6 | -- | 1700 | 1300 | -- | -- | 39 | -- | -- | -- | -- | 100 | 61 | 310 | -- | 15 | -- |
| 8270C | Urea, N,N'-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Notes:

Exceeds the primary Drinking Water Standard

Exceed the Secondary Drinking Water Standard

**Bold** Exceeds the Region 6 Tap Water MSSL

-- No data available for reported analyte

is the approximate concentration of the analyte in the sample.

NA No MSSL is published for the analyte

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | MW-22#1 7/23/2008 | MW-22#4 7/23/2008 | MW-23 7/11/2008 | MW-25#1 7/23/2008 | MW-25#4 7/23/2008 | OFF-MW-5.1 7/25/2008 | OFF-MW-5.2 7/25/2008 | OFF-MW-5.3 7/25/2008 | OFF-MW-6.1 7/25/2008 | OFF-MW-6.3 7/25/2008 | OFF-MW-6.5 7/25/2008 | OFF-MW-7.4 7/25/2008 | OFF-MW-7.5 7/24/2008 | OFF-MW-7.6 7/24/2008 | OFF-MW-8.1 7/24/2008 | OFF-MW-8.3 7/24/2008 | OFF-MW-8.5 7/24/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Metals** | | | | | | | | | | | | | | | | | | | | | | |
| 6020 | Aluminum | 7429-90-5 | UG/L | -- | 50 | 37000 | 1290 | 260 | 54.2 | 542 | 7440 | 2290 | 1640 | 1440 | 867 | 9320 | 654 | 1460 | 298 | 10600 | 2390 | 159 | 572 |
| 6020 | Antimony | 7440-36-0 | UG/L | 6 | -- | 15 | 0.16 B J | 0.062 B J | < 0.029 | 0.54 B J | 0.28 B J | 0.076 B J | 0.067 B J | 0.051 B J | 0.18 B J | 0.17 B J | 0.16 B J | 0.058 B J | 0.095 B J | 0.084 B J | 0.26 B J | < 0.029 | 0.061 B J |
| 6020 | Arsenic | 7440-38-2 | UG/L | 10 | -- | 0.045 | **6.7 J** | **1.1 J** | **1.5** | **2.3 J** | **4.1 J** | **1.2 J** | **1.4 J** | **1.3 J** | **2.7 J** | **4.4 J** | **4.2 J** | **0.98 B J** | **1.4 J** | **3.0 J** | **3.4 J** | **2.0 J** | **0.68 B J** |
| 6020 | Barium | 7440-39-3 | UG/L | 2000 | -- | 7300 | 211 | 422 | 161 | 181 | 184 | 193 | 194 | 192 | 179 | 166 | 193 | 281 | 386 | 824 | 168 | 226 | 182 |
| 6020 | Beryllium | 7440-41-7 | UG/L | 4 | -- | 73 | 0.070 B | 0.033 B | < 0.023 | 0.084 B | 1.5 | 0.085 B | 0.057 B | 0.058 B | 0.071 B | 0.91 B | 0.065 B | 0.13 B | 0.050 B | 1.2 | 0.16 B | < 0.023 | 0.045 B |
| 6020 | Cadmium | 7440-43-9 | UG/L | 5 | -- | 18 | 0.20 B | < 0.023 | < 0.023 | 0.025 B | 0.10 B | < 0.023 | 0.026 B | < 0.023 | 0.041 B | 0.17 B | 0.074 B | 0.075 B | 0.028 B | 0.077 B | 0.16 B | < 0.023 | 0.039 B |
| 6020 | Calcium | 7440-70-2 | UG/L | -- | -- | -- | 100000 | 130000 | 77800 | 76600 | 33300 | 54800 | 57800 | 57700 | 70000 | 66500 | 72100 | 89600 | 149000 | 260000 | 53200 | 84100 | 61900 |
| 6020 | Chromium | 7440-47-3 | UG/L | 100 | -- | -- | 2.2 | 0.60 B | 1.9 | 1.0 | 5.6 | 5.6 | 6.8 | 5.7 | 5.4 | 14.4 | 3.2 | 4.0 | 0.82 B | 4.0 | 6.0 | < 0.56 | 2.3 |
| 6020 | Cobalt | 7440-48-4 | UG/L | -- | -- | 730 | 2.8 | 0.37 B | 0.62 | 1.6 | 3.8 | 2.7 | 2.2 | 1.6 | 1.6 | 6.3 | 2.0 | 1.3 | 0.81 B | 2.5 | 2.3 | 1.4 | 1.2 |
| 6020 | Copper | 7440-50-8 | UG/L | 1300 | 1000 | 1400 | 1.7 | 0.55 B | 0.47 | 0.96 B | 2.8 | 2.5 | 3.4 | 2.6 | 2.5 | 11.5 | 2.3 | 2.2 | 0.85 B | 4.0 | 5.4 | 0.55 B | 1.5 |
| 6020 | Iron | 7439-89-6 | UG/L | -- | 300 | 26000 | 13000 | 19200 | 3750 | 1860 | 10600 | 10700 | 11900 | 10800 | 4830 | 13100 | 4320 | 11900 | 9710 | 22400 | 4690 | 8360 | 6120 |
| 6020 | Lead | 7439-92-1 | UG/L | 15 | -- | 15 | 1.5 | 0.48 B | 0.19 | 1.5 | 20.3 | 2.0 | 1.6 | 1.2 | 1.7 | **17.1** | 1.4 | 1.9 | 0.50 B | 11.6 | 6.2 | 0.34 B | 1.3 |
| 6020 | Magnesium | 7439-95-4 | UG/L | -- | -- | -- | 43200 | 55300 | 34000 | 25600 | 12400 | 25500 | 27000 | 26000 | 31800 | 29300 | 32500 | 35900 | 57800 | 102000 | 10700 | 35700 | 28800 |
| 6020 | Manganese | 7439-96-5 | UG/L | -- | 50 | 1700 | **1710 J** | 1090 J | 252 | 489 J | 573 J | 554 J | 590 J | 572 J | 996 J | 1060 J | 792 J | 711 J | 820 J | **1980 J** | 276 J | 976 J | 438 J |
| 6020 | Nickel | 7440-02-0 | UG/L | -- | -- | 730 | 5.7 | 4.3 | 3.2 | 4.4 | 5.5 | 5.8 | 5.3 | 4.5 | 5.2 | 14.2 | 4.2 | 18.4 | 36.9 | 48.7 | 7.7 | 2.4 | 3.4 |
| 6020 | Potassium | 7440-09-7 | UG/L | -- | -- | -- | 2520 | 3430 | 1500 | 4000 | 4020 | 2770 | 3530 | 4220 | 2410 | 3380 | 3040 | 2960 | 2530 | 7250 | 4930 | 2260 | 1590 |
| 6020 | Selenium | 7782-49-2 | UG/L | 50 | -- | 180 | 0.43 B J | 0.97 B J | < 0.11 | 3.7 J | 0.70 B J | 0.44 B J | 0.27 B J | 0.27 B J | 6.3 J | 8.8 J | 10.5 J | 0.34 B J | 0.38 B J | 0.63 B J | 0.45 B J | 0.23 B J | 0.23 B J |
| 6020 | Silver | 7440-22-4 | UG/L | -- | 100 | 180 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | 0.044 B | < 0.04 | < 0.04 | < 0.04 | < 0.04 | 0.048 B | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 |
| 6020 | Sodium | 7440-23-5 | UG/L | -- | -- | -- | 21400 | 247000 | 20300 | 19600 L | 145000 | 26600 | 16500 | 16600 | 21100 | 82800 | 40900 | 35100 | 31800 | 174000 | 42700 | 13400 | 18300 |
| 6020 | Thallium | 7440-28-0 | UG/L | 2 | -- | 2.6 | 0.023 B | < 0.019 | < 0.019 | < 0.019 | 0.056 B | 0.031 B | 0.022 B | < 0.019 | 0.022 B | 0.049 B | < 0.019 | 0.029 B | < 0.019 | 0.11 B | 0.043 B | < 0.019 | < 0.019 |
| 6020 | Vanadium | 7440-62-2 | UG/L | -- | -- | 180 | 2.7 | 0.63 B | 0.38 | 1.3 | 6.5 | 3.9 | 3.0 | 2.5 | 2.6 | 13.9 | 3.5 | 3.0 | 0.69 B | 8.6 | 8.6 | 0.21 B | 1.4 |
| 6020 | Zinc | 7440-66-6 | UG/L | -- | 5000 | 11000 | 17.7 | 20.9 | 9.5 | 12.2 | 38.9 | 17.6 | 18.8 | 13.9 | 14.6 | 33.5 | 15.2 | 20.2 | 20.6 | 57.1 | 21.1 | 12.9 | 14.8 |
| | **Organochlorine Pesticides** | | | | | | | | | | | | | | | | | | | | | | |
| 8081A | 4,4'-DDD | 72-54-8 | UG/L | -- | -- | 0.28 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 |
| 8081A | 4,4'-DDE | 72-55-9 | UG/L | -- | -- | 0.2 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 |
| 8081A | 4,4'-DDT | 50-29-3 | UG/L | -- | -- | 0.2 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 |
| 8081A | Aldrin | 309-00-2 | UG/L | -- | -- | 0.004 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 | < 0.0059 |
| 8081A | alpha-BHC | 319-84-6 | UG/L | -- | -- | 0.011 | 0.0076 J | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 |
| 8081A | alpha-Chlordane | 5103-71-9 | UG/L | -- | -- | -- | 0.0072 J COL | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 | < 0.0053 |
| 8081A | beta-BHC | 319-85-7 | UG/L | -- | -- | 0.037 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 | < 0.0087 |
| 8081A | Chlordane (technical) | 57-74-9 | UG/L | 2 | -- | 0.19 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 | < 0.14 |
| 8081A | delta-BHC | 319-86-8 | UG/L | -- | -- | -- | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 |
| 8081A | Dieldrin | 60-57-1 | UG/L | -- | -- | 0.0042 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 | < 0.0063 |
| 8081A | Endosulfan I | 959-98-8 | UG/L | -- | -- | -- | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 | < 0.0058 |
| 8081A | Endosulfan II | 33213-65-9 | UG/L | -- | -- | -- | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 |
| 8081A | Endosulfan sulfate | 1031-07-8 | UG/L | -- | -- | -- | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 | < 0.0057 |
| 8081A | Endrin | 72-20-8 | UG/L | 2 | -- | 11 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 |
| 8081A | Endrin aldehyde | 7421-93-4 | UG/L | -- | -- | -- | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 | < 0.0088 |
| 8081A | Endrin ketone | 53494-70-5 | UG/L | -- | -- | -- | 0.030 J COL | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 |
| 8081A | gamma-BHC (Lindane) | 58-89-9 | UG/L | 0.2 | -- | 0.052 | 0.024 J | 0.0086 J COL | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 | < 0.0069 |
| 8081A | gamma-Chlordane | 5103-74-2 | UG/L | -- | -- | -- | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 | < 0.0091 |
| 8081A | Heptachlor | 76-44-8 | UG/L | 0.4 | -- | 0.015 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 |
| 8081A | Heptachlor epoxide | 1024-57-3 | UG/L | 0.2 | -- | 0.0074 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 |
| 8081A | Methoxychlor | 72-43-5 | UG/L | 40 | -- | 180 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 | < 0.013 |
| 8081A | Toxaphene | 8001-35-2 | UG/L | 3 | -- | 0.061 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 |
| | **Herbicides** | | | | | | | | | | | | | | | | | | | | | | |
| 8151A | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | 0.79 CHI | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | < 0.24 | 0.34 J | 0.52 J | < 0.24 | < 0.24 | < 0.24 |
| | **Volatile Organic Compounds (VOCs)** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,1,1-Trichloroethane | 71-55-6 | UG/L | 200 | -- | 840 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 0.36 | < 36 | < 9 | < 90 | < 0.36 | < 0.36 | < 0.36 | < 18 | < 0.36 | < 18 |
| 8260B | 1,1,2,2-Tetrachloroethane | 79-34-5 | UG/L | -- | -- | 0.055 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 31 | < 7.8 | < 78 | < 0.31 | < 0.31 | < 0.31 | < 16 | < 0.31 | < 16 |
| 8260B | 1,1,2-Trichloroethane | 79-00-5 | UG/L | 5 | -- | 0.2 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 35 | < 8.8 | < 88 | < 0.35 | < 0.35 | < 0.35 | < 18 | < 0.35 | < 18 |
| 8260B | 1,1-Dichloroethane | 75-34-3 | UG/L | -- | -- | 1200 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 9.4 | < 94 | < 0.37 | < 0.37 | < 0.37 | < 19 | < 0.37 | < 19 |
| 8260B | 1,1-Dichloroethene | 75-35-4 | UG/L | 7 | -- | 340 | 0.87 J | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 43 | < 11 | < 110 | < 0.43 | < 0.43 | < 0.43 | < 21 | < 0.43 | < 21 |
| 8260B | 1,2-Dibromoethane (EDB) | 106-93-4 | UG/L | 0.05 | -- | 0.0056 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 30 | < 7.5 | < 75 | < 0.3 | < 0.3 | < 0.3 | < 15 | < 0.3 | < 15 |
| 8260B | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | 2.1 | 0.83 J | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 0.43 | < 43 | < 11 | < 110 | < 0.43 | < 0.43 | < 0.43 | < 22 | < 0.43 | < 22 |
| 8260B | 1,2-Dichloroethane | 107-06-2 | UG/L | 5 | -- | 0.12 | 91 | **50** | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | **6100** | **1200** | **15000** | < 0.39 | **48** | < 0.39 | **2100** | < 0.39 | **2900** |
| 8260B | 1,2-Dichloroethene (total) | 540-59-0 | UG/L | -- | -- | -- | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 73 | < 18 | < 180 | < 0.73 | < 0.73 | < 0.73 | < 37 | < 0.73 | < 37 |
| 8260B | 1,2-Dichloropropane | 78-87-5 | UG/L | 5 | -- | 0.17 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 9.3 | < 93 | < 0.37 | < 0.37 | < 0.37 | < 19 | < 0.37 | < 19 |
| 8260B | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 39 | < 9.6 | < 96 | < 0.39 | < 0.39 | < 0.39 | < 19 | < 0.39 | < 19 |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | MW-22#1 7/23/2008 | MW-22#4 7/23/2008 | MW-23 7/11/2008 | MW-25#1 7/23/2008 | MW-25#4 7/23/2008 | OFF-MW-5.1 7/25/2008 | OFF-MW-5.2 7/25/2008 | OFF-MW-5.3 7/25/2008 | OFF-MW-6.1 7/25/2008 | OFF-MW-6.3 7/25/2008 | OFF-MW-6.5 7/25/2008 | OFF-MW-7.4 7/25/2008 | OFF-MW-7.5 7/24/2008 | OFF-MW-7.6 7/24/2008 | OFF-MW-8.1 7/24/2008 | OFF-MW-8.3 7/24/2008 | OFF-MW-8.5 7/24/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | < 0.38 | 0.41 J | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 38 | < 9.4 | < 94 | < 0.38 | < 0.38 | < 0.38 | < 19 | < 0.38 | < 19 |
| 8260B | 2-Butanone (MEK) | 78-93-3 | UG/L | -- | -- | 7100 | 2.0 J | 2.1 J | < 0.84 | < 0.84 | 13 | 5.9 | 1.1 J | < 0.84 | < 84 | < 21 | < 210 | < 0.84 | 1.1 J | 1.5 J | < 42 | < 0.84 | < 42 |
| 8260B | 2-Hexanone | 591-78-6 | UG/L | -- | -- | -- | 2.3 J | 2.1 J | < 0.27 | 2.9 J | 31 | 15 | 2.0 J | 1.2 J | < 27 | < 6.7 | < 67 | 0.68 J | 0.84 J | 1.9 J | < 13 | < 0.27 | < 13 |
| 8260B | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | UG/L | -- | -- | 2000 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 42 | < 10 | < 100 | < 0.42 | < 0.42 | < 0.42 | < 21 | < 0.42 | < 21 |
| 8260B | Acetone | 67-64-1 | UG/L | -- | -- | 5500 | 4.1 J | 9.9 | 2.5 | 2.1 J | 17 | 12 | 4.2 J | 2.5 J | < 82 | < 20 | < 200 | 3.0 J | 3.7 J | 4.8 J | < 41 | 2.5 J | < 41 |
| 8260B | Benzene | 71-43-2 | UG/L | 5 | -- | 0.35 | < 0.39 | **16** | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 39 | < 9.8 | < 98 | < 0.39 | < 0.39 | 1.4 | < 20 | < 0.39 | < 20 |
| 8260B | Bromobenzene | 108-86-1 | UG/L | -- | -- | 23 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 39 | < 9.9 | < 99 | < 0.39 | < 0.39 | < 0.39 | < 20 | < 0.39 | < 20 |
| 8260B | Bromochloromethane | 74-97-5 | UG/L | -- | -- | -- | < 0.37 | < 0.37 | < 0.37 | < 0.37 | 1.1 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 9.2 | < 92 | < 0.37 | < 0.37 | < 0.37 | < 18 | < 0.37 | < 18 |
| 8260B | Bromodichloromethane | 75-27-4 | UG/L | -- | -- | 0.18 | < 0.37 | < 0.37 | **0.43** | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 9.2 | < 92 | < 0.37 | < 0.37 | < 0.37 | < 18 | < 0.37 | < 18 |
| 8260B | Bromoform | 75-25-2 | UG/L | -- | -- | 8.5 | < 0.27 | < 0.27 | 0.52 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 0.27 | < 27 | < 6.7 | < 67 | < 0.27 | < 0.27 | < 0.27 | < 13 | < 0.27 | < 13 |
| 8260B | Bromomethane | 74-83-9 | UG/L | -- | -- | 8.7 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 0.72 | < 72 | < 18 | < 180 | < 0.72 | < 0.72 | < 0.72 | < 36 | < 0.72 | < 36 |
| 8260B | Carbon disulfide | 75-15-0 | UG/L | -- | -- | 1000 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 0.38 | < 38 | < 9.6 | < 96 | < 0.38 | < 0.38 | < 0.38 | < 19 | < 0.38 | < 19 |
| 8260B | Carbon tetrachloride | 56-23-5 | UG/L | 5 | -- | 0.17 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | < 41 | < 10 | < 100 | < 0.41 | < 0.41 | < 0.41 | < 20 | < 0.41 | < 20 |
| 8260B | Chlorobenzene | 108-90-7 | UG/L | 100 | -- | 91 | 0.48 J | 52 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 0.33 | < 33 | < 8.3 | < 83 | < 0.33 | 0.57 J | 7.6 | < 17 | < 0.33 | < 17 |
| 8260B | Chloroethane | 75-00-3 | UG/L | -- | -- | 3.9 | < 0.45 | 1.2 J | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 45 | < 11 | < 110 | < 0.45 | 0.48 J | 2.0 | < 22 | < 0.45 | < 22 |
| 8260B | Chloroform | 67-66-3 | UG/L | -- | -- | 0.17 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | **0.96 J** | < 0.35 | < 0.35 | < 0.35 | < 35 | < 8.7 | < 87 | < 0.35 | < 0.35 | < 0.35 | < 17 | < 0.35 | < 17 |
| 8260B | Chloromethane | 74-87-3 | UG/L | -- | -- | 2.1 | < 0.48 | 0.73 J | < 0.48 | 0.50 J | 0.67 J | < 0.48 | < 0.48 | < 0.48 | < 48 | < 12 | < 120 | < 0.48 | 1.2 J | 0.48 J | < 24 | < 0.48 | < 24 |
| 8260B | cis-1,2-Dichloroethene | 156-59-2 | UG/L | 70 | -- | 61 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 9.2 | < 92 | < 0.37 | < 0.37 | < 0.37 | < 18 | < 0.37 | < 18 |
| 8260B | cis-1,3-Dichloropropene | 10061-01-5 | UG/L | -- | -- | 0.4 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 31 | < 7.7 | < 77 | < 0.31 | < 0.31 | < 0.31 | < 15 | < 0.31 | < 15 |
| 8260B | Dibromochloromethane | 124-48-1 | UG/L | -- | -- | 0.13 | < 0.28 | < 0.28 | **0.67** | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 0.28 | < 28 | < 7 | < 70 | < 0.28 | < 0.28 | < 0.28 | < 14 | < 0.28 | < 14 |
| 8260B | Dibromomethane | 74-95-3 | UG/L | -- | -- | 61 | < 0.41 | < 0.41 | < 0.41 | < 0.41 | 1.3 | < 0.41 | < 0.41 | < 0.41 | < 41 | < 10 | < 100 | < 0.41 | < 0.41 | < 0.41 | < 20 | < 0.41 | < 20 |
| 8260B | Ethylbenzene | 100-41-4 | UG/L | 700 | -- | 1300 | < 0.42 | 0.74 J | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | < 42 | < 10 | < 100 | < 0.42 | < 0.42 | < 0.42 | < 21 | < 0.42 | < 21 |
| 8260B | Methylene chloride | 75-09-2 | UG/L | 5 | -- | 4.3 | < 0.42 | < 0.42 | < 0.42 | < 0.42 | 1.6 | < 0.42 | < 0.42 | < 0.42 | < 42 | < 11 | < 110 | < 0.42 | < 0.42 | < 0.42 | < 21 | < 0.42 | < 21 |
| 8260B | m-Xylene & p-Xylene | 136777-61-2 | UG/L | -- | -- | -- | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 0.83 | < 83 | < 21 | < 210 | < 0.83 | < 0.83 | < 0.83 | < 41 | < 0.83 | < 41 |
| 8260B | o-Xylene | 95-47-6 | UG/L | -- | -- | 1400 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 39 | < 9.7 | < 97 | < 0.39 | < 0.39 | < 0.39 | < 19 | < 0.39 | < 19 |
| 8260B | Styrene | 100-42-5 | UG/L | 100 | -- | 1600 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 0.31 | < 31 | < 7.8 | < 78 | < 0.31 | < 0.31 | < 0.31 | < 16 | < 0.31 | < 16 |
| 8260B | Tetrachloroethene | 127-18-4 | UG/L | 5 | -- | 0.11 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 40 | < 9.9 | < 99 | < 0.4 | < 0.4 | < 0.4 | < 20 | < 0.4 | < 20 |
| 8260B | Toluene | 108-88-3 | UG/L | 1000 | -- | 2300 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 0.39 | < 39 | < 9.8 | < 98 | < 0.39 | < 0.39 | 0.78 J | < 20 | < 0.39 | < 20 |
| 8260B | trans-1,2-Dichloroethene | 156-60-5 | UG/L | 100 | -- | 110 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 0.37 | < 37 | < 9.3 | < 93 | < 0.37 | < 0.37 | 0.44 J | < 19 | < 0.37 | < 19 |
| 8260B | trans-1,3-Dichloropropene | 10061-02-6 | UG/L | -- | -- | 0.4 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 0.21 | < 21 | < 5.2 | < 52 | < 0.21 | < 0.21 | < 0.21 | < 10 | < 0.21 | < 10 |
| 8260B | Trichloroethene | 79-01-6 | UG/L | 5 | -- | 0.028 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 0.45 | < 45 | < 11 | < 110 | < 0.45 | < 0.45 | < 0.45 | < 22 | < 0.45 | < 22 |
| 8260B | Trichlorofluoromethane | 75-69-4 | UG/L | -- | -- | 1300 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 0.47 | < 47 | < 12 | < 120 | < 0.47 | < 0.47 | < 0.47 | < 24 | < 0.47 | < 24 |
| 8260B | Vinyl acetate | 108-05-4 | UG/L | -- | -- | 410 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 0.29 | < 29 | < 7.3 | < 73 | < 0.29 | < 0.29 | < 0.29 | < 15 | < 0.29 | < 15 |
| 8260B | Vinyl chloride | 75-01-4 | UG/L | 2 | -- | 0.015 | **2.1** | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 40 | < 10 | < 100 | < 0.4 | < 0.4 | < 0.4 | < 20 | < 0.4 | < 20 |
| 8260B | Xylenes (total) | 1330-20-7 | UG/L | 10000 | -- | 200 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 120 | < 30 | < 300 | < 1.2 | < 1.2 | < 1.2 | < 60 | < 1.2 | < 60 |
| | **VOC TICs** | | | | | | | | | | | | | | | | | | | | | | |
| 8260B | 1,2,3-Trimethylbenzene | 526-73-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1,2,4-Trimethylbenzene | 95-36-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | benzo[b,e][1,4]diazepin-11-one, 5-(3-a | 13450-73-2 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 1-Propene, 2-methyl- | 115-11-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Butanone, 3,3-dimethyl- | 75-97-8 | UG/L | -- | -- | -- | -- | 1.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | 2-Chloroethyl vinyl ether | 110-75-8 | UG/L | -- | -- | -- | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 0.62 | < 62 | < 16 | < 160 | < 0.62 | < 0.62 | < 0.62 | < 31 | < 0.62 | < 31 |
| 8260B | 2-Propanol, 2-methyl- | 75-65-0 | UG/L | -- | -- | -- | 1.8 | 1.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | enzaldehyde, 2,5-bis[(trimethylsilyl)ox | 56114-69-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, (1-methylethyl)- | 98-82-8 | UG/L | -- | -- | 660 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2,3,5-tetramethyl- | 527-53-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2,4-trimethyl- | 95-63-6 | UG/L | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,2-diethyl- | 135-01-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,3-diethyl- | 141-93-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1,4-diethyl- | 105-05-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-ethyl-2,4-dimethyl- | 874-41-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-ethyl-2-methyl- | 611-14-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-methyl-2-(1-methylethyl)- | 527-84-4 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 1-methyl-4-(1-methylethyl)- | 99-87-6 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | zene, 1-phenyl-4-(2-cyano-2-phenyleth | 27869-56-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 2-ethenyl-1,4-dimethyl- | 2039-89-6 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 2-ethyl-1,3-dimethyl- | 2870-04-4 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, 4-ethyl-1,2-dimethyl- | 934-80-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzene, propyl- | 103-65-1 | UG/L | -- | -- | 61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Benzenepropanal | 104-53-0 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | MW-22#1 7/23/2008 | MW-22#4 7/23/2008 | MW-23 7/11/2008 | MW-25#1 7/23/2008 | MW-25#4 7/23/2008 | OFF-MW-5.1 7/25/2008 | OFF-MW-5.2 7/25/2008 | OFF-MW-5.3 7/25/2008 | OFF-MW-6.1 7/25/2008 | OFF-MW-6.3 7/25/2008 | OFF-MW-6.5 7/25/2008 | OFF-MW-7.4 7/25/2008 | OFF-MW-7.5 7/24/2008 | OFF-MW-7.6 7/24/2008 | OFF-MW-8.1 7/24/2008 | OFF-MW-8.3 7/24/2008 | OFF-MW-8.5 7/24/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8260B | zoic acid, 2-[(trimethylsilyl)oxy]-, trime | 3789-85-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Cyclotetrasiloxane, octamethyl- | 556-67-2 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Cyclotrisiloxane, hexamethyl- | 541-05-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Dimethyl sulfide | 75-18-3 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Ethanone, 1-(2,4-dimethylphenyl)- | 89-74-7 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Ethenamine, n-methylene- | 38239-27-9 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Isobutane | 75-28-5 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Propene | 115-07-1 | UG/L | -- | -- | -- | -- | -- | -- | -- | 3.5 | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | -- |
| 8260B | Tetrasiloxane, decamethyl- | 141-62-8 | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8260B | Unknown | | UG/L | -- | -- | -- | -- | -- | -- | 2.2 | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Semivolatile Organic Compounds (SVOCs)** | | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | 1,2,4-Trichlorobenzene | 120-82-1 | UG/L | 70 | -- | 8.2 | < 0.82 | < 0.84 | < 0.82 | < 0.81 | < 0.82 | < 0.81 | < 0.81 | < 0.82 | < 0.81 | < 0.83 | < 0.82 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.81 | < 0.84 |
| 8270C | 1,2-Dichlorobenzene | 95-50-1 | UG/L | 600 | -- | 49 | 1.7 J | < 0.97 | < 0.95 | < 0.94 | < 0.95 | < 0.94 | < 0.94 | < 0.95 | < 0.93 | < 0.96 | < 0.95 | < 0.94 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.97 |
| 8270C | 1,3-Dichlorobenzene | 541-73-1 | UG/L | -- | -- | 15 | < 0.97 | < 0.99 | < 0.97 | < 0.96 | < 0.97 | < 0.96 | < 0.96 | < 0.97 | < 0.95 | < 0.98 | < 0.97 | < 0.96 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.99 |
| 8270C | 1,4-Dichlorobenzene | 106-46-7 | UG/L | 75 | -- | 0.47 | < 0.79 | < 0.81 | < 0.79 | < 0.78 | < 0.79 | < 0.78 | < 0.78 | < 0.79 | < 0.78 | < 0.8 | < 0.79 | < 0.78 | < 0.78 | < 0.78 | < 0.78 | < 0.78 | < 0.81 |
| 8270C | 2,4,5-Trichlorophenol | 95-95-4 | UG/L | -- | -- | 3700 | < 0.98 | < 1 | < 0.98 | < 0.97 | < 0.98 | < 0.97 | < 0.97 | < 0.98 | < 0.96 | < 0.99 | < 0.98 | < 0.97 | < 0.96 | < 0.96 | < 0.96 | < 0.96 | < 1 |
| 8270C | 2,4,6-Trichlorophenol | 88-06-2 | UG/L | -- | -- | 6.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | 2,4-Dichlorophenol | 120-83-2 | UG/L | -- | -- | 110 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 0.99 | < 1 | < 1 | < 1 | < 0.99 | < 0.99 | < 0.99 | < 0.99 | < 1 |
| 8270C | 2,4-Dimethylphenol | 105-67-9 | UG/L | -- | -- | 730 | < 1.9 | < 1.9 | < 1.9 | < 1.8 | < 1.9 | < 1.8 | < 1.8 | < 1.9 | < 1.8 | < 1.9 | < 1.9 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.9 |
| 8270C | 2,4-Dinitrophenol | 51-28-5 | UG/L | -- | -- | 73 | < 3.7 | < 3.7 | < 3.7 | < 3.6 | < 3.7 | < 3.6 | < 3.6 | < 3.7 | < 3.6 | < 3.7 | < 3.7 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | < 3.7 |
| 8270C | 2,4-Dinitrotoluene | 121-14-2 | UG/L | -- | -- | 73 | < 2.8 | < 2.9 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.9 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.8 | < 2.9 |
| 8270C | 2,6-Dinitrotoluene | 606-20-2 | UG/L | -- | -- | 37 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 0.98 | < 1 | < 1 | < 1 | < 0.98 | < 0.98 | < 0.98 | < 0.98 | < 1 |
| 8270C | 2-Chloronaphthalene | 91-58-7 | UG/L | -- | -- | 490 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 |
| 8270C | 2-Chlorophenol | 95-57-8 | UG/L | -- | -- | 30 | < 1.5 | < 1.5 | < 1.5 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.5 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 |
| 8270C | 2-Methylnaphthalene | 91-57-6 | UG/L | -- | -- | -- | < 0.95 | < 0.97 | < 0.95 | < 0.94 | < 0.95 | < 0.94 | < 0.94 | < 0.95 | < 0.93 | < 0.96 | < 0.95 | < 0.94 | < 0.93 | < 0.93 | < 0.93 | < 0.93 | < 0.97 |
| 8270C | 2-Methylphenol | 95-48-7 | UG/L | -- | -- | 1800 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 | < 1.8 |
| 8270C | 2-Nitroaniline | 88-74-4 | UG/L | -- | -- | 110 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.2 |
| 8270C | 2-Nitrophenol | 88-75-5 | UG/L | -- | -- | -- | < 1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1.1 |
| 8270C | 3,3'-Dichlorobenzidine | 91-94-1 | UG/L | -- | -- | 0.15 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.7 | < 1.6 | < 1.7 | < 1.7 | < 1.7 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.7 |
| 8270C | 3,4-Dichloroaniline | 95-76-1 | UG/L | -- | -- | -- | 69 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 0.98 | < 1 | < 1 | < 1 | < 0.98 | < 0.98 | < 0.98 | < 0.98 | < 1 |
| 8270C | 3-Methylphenol & 4-Methylphenol | 65794-96-9 | UG/L | -- | -- | 180 | < 2.5 | < 2.6 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.6 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.5 | < 2.6 |
| 8270C | 3-Nitroaniline | 99-09-2 | UG/L | -- | -- | -- | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | 4,6-Dinitro-2-methylphenol | 534-52-1 | UG/L | -- | -- | -- | < 3.5 | < 3.6 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.5 | < 3.4 | < 3.5 | < 3.5 | < 3.5 | < 3.4 | < 3.4 | < 3.4 | < 3.4 | < 3.6 |
| 8270C | 4-Bromophenyl phenyl ether | 101-55-3 | UG/L | -- | -- | -- | < 0.91 | < 0.93 | < 0.91 | < 0.91 | < 0.91 | < 0.91 | < 0.91 | < 0.91 | < 0.9 | < 0.92 | < 0.91 | < 0.91 | < 0.9 | < 0.9 | < 0.9 | < 0.9 | < 0.93 |
| 8270C | 4-Chloro-3-methylphenol | 59-50-7 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1 | < 1.1 | < 1 | < 1.1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1.1 |
| 8270C | 4-Chloroaniline | 106-47-8 | UG/L | -- | -- | 150 | < 1.6 | 7.3 J | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | 1.9 J | < 1.6 | < 1.6 | < 1.7 |
| 8270C | 4-Chlorophenyl phenyl ether | 7005-72-3 | UG/L | -- | -- | -- | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 |
| 8270C | 4-Nitroaniline | 100-01-6 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1.1 |
| 8270C | 4-Nitrophenol | 100-02-7 | UG/L | -- | -- | 290 | < 4 | < 4.1 | < 4 | < 4 | < 4 | < 4 | < 4 | < 4 | < 3.9 | < 4.1 | < 4 | < 4 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 4.1 |
| 8270C | Acenaphthene | 83-32-9 | UG/L | -- | -- | 370 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Acenaphthylene | 208-96-8 | UG/L | -- | -- | -- | < 0.89 | < 0.9 | < 0.89 | < 0.88 | < 0.89 | < 0.88 | < 0.88 | < 0.89 | < 0.87 | < 0.9 | < 0.89 | < 0.88 | < 0.87 | < 0.87 | < 0.87 | < 0.87 | < 0.9 |
| 8270C | Aniline | 62-53-3 | UG/L | -- | -- | 12 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| 8270C | Anthracene | 120-12-7 | UG/L | -- | -- | 1800 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Benzo(a)anthracene | 56-55-3 | UG/L | -- | -- | 0.03 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Benzo(a)pyrene | 50-32-8 | UG/L | 0.2 | -- | 0.003 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Benzo(b)fluoranthene | 205-99-2 | UG/L | -- | -- | 0.03 | < 0.77 | < 0.79 | < 0.77 | < 0.76 | < 0.77 | < 0.76 | < 0.76 | < 0.77 | < 0.76 | < 0.78 | < 0.77 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.76 | < 0.79 |
| 8270C | Benzo(ghi)perylene | 191-24-2 | UG/L | -- | -- | -- | < 0.75 | < 0.76 | < 0.75 | < 0.74 | < 0.75 | < 0.74 | < 0.74 | < 0.75 | < 0.73 | < 0.75 | < 0.75 | < 0.74 | < 0.73 | < 0.73 | < 0.73 | < 0.73 | < 0.76 |
| 8270C | Benzo(k)fluoranthene | 207-08-9 | UG/L | -- | -- | 0.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | Benzoic acid | 65-85-0 | UG/L | -- | -- | 150000 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 | < 13 |
| 8270C | Benzyl alcohol | 100-51-6 | UG/L | -- | -- | 11000 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 | < 1.6 |
| 8270C | bis(2-Chloroethoxy)methane | 111-91-1 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | bis(2-Chloroethyl) ether | 111-44-4 | UG/L | -- | -- | 0.0098 | < 1.2 | **45** | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | < 1.2 | < 1.2 | < 1.2 | < 1.1 | **12** | < 1.1 | < 1.1 | < 1.2 |
| 8270C | bis(2-Chloroisopropyl) ether | 108-60-1 | UG/L | -- | -- | 0.27 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 |
| 8270C | bis(2-Ethylhexyl) phthalate | 117-81-7 | UG/L | 6 | -- | 4.8 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | < 2.7 | **41** | < 2.7 | < 2.6 | < 2.7 | < 2.7 | < 2.7 | < 2.6 | < 2.6 | < 2.6 | < 2.6 | **6.9 J** |
| 8270C | Butyl benzyl phthalate | 85-68-7 | UG/L | -- | -- | 7300 | < 0.97 | < 0.99 | < 0.97 | < 0.96 | < 0.97 | < 0.96 | < 0.96 | < 0.97 | < 0.95 | < 0.98 | < 0.97 | < 0.96 | < 0.95 | < 0.95 | < 0.95 | < 0.95 | < 0.99 |
| 8270C | Chrysene | 218-01-9 | UG/L | -- | -- | 3 | < 1.1 | < 1.1 | < 1.1 | < 1 | < 1.1 | < 1 | < 1 | < 1.1 | < 1 | < 1.1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1.1 |
| 8270C | Dibenz(a,h)anthracene | 53-70-3 | UG/L | -- | -- | 0.003 | < 0.99 | < 1 | < 0.99 | < 0.98 | < 0.99 | < 0.98 | < 0.98 | < 0.99 | < 0.97 | < 1 | < 0.99 | < 0.98 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 1 |
| 8270C | Dibenzofuran | 132-64-9 | UG/L | -- | -- | 12 | < 1 | < 1.1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1.1 |
| 8270C | Diethyl phthalate | 84-66-2 | UG/L | -- | -- | 29000 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 |
| 8270C | Dimethyl phthalate | 131-11-3 | UG/L | -- | -- | 370000 | < 1.2 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.3 |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | MW-22#1 7/23/2008 | MW-22#4 7/23/2008 | MW-23 7/11/2008 | MW-25#1 7/23/2008 | MW-25#4 7/23/2008 | OFF-MW-5.1 7/25/2008 | OFF-MW-5.2 7/25/2008 | OFF-MW-5.3 7/25/2008 | OFF-MW-6.1 7/25/2008 | OFF-MW-6.3 7/25/2008 | OFF-MW-6.5 7/25/2008 | OFF-MW-7.4 7/25/2008 | OFF-MW-7.5 7/24/2008 | OFF-MW-7.6 7/24/2008 | OFF-MW-8.1 7/24/2008 | OFF-MW-8.3 7/24/2008 | OFF-MW-8.5 7/24/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Di-n-butyl phthalate | 84-74-2 | UG/L | -- | -- | 3700 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | 1.1 J | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | 1.9 J | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Di-n-octyl phthalate | 117-84-0 | UG/L | -- | -- | -- | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Dinoseb | 88-85-7 | UG/L | 7 | -- | 37 | < 0.4 | < 0.41 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.41 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.4 | < 0.41 |
| 8270C | Fluoranthene | 206-44-0 | UG/L | -- | -- | 1500 | < 0.9 | < 0.92 | < 0.9 | < 0.89 | < 0.9 | < 0.89 | < 0.89 | < 0.9 | < 0.88 | < 0.91 | < 0.9 | < 0.89 | < 0.88 | < 0.88 | < 0.88 | < 0.88 | < 0.92 |
| 8270C | Fluorene | 86-73-7 | UG/L | -- | -- | 240 | < 0.99 | < 1 | < 0.99 | < 0.98 | < 0.99 | < 0.98 | < 0.98 | < 0.99 | < 0.97 | < 1 | < 0.99 | < 0.98 | < 0.97 | < 0.97 | < 0.97 | < 0.97 | < 1 |
| 8270C | Hexachlorobenzene | 118-74-1 | UG/L | 1 | -- | 0.042 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.4 | < 1.5 |
| 8270C | Hexachlorobutadiene | 87-68-3 | UG/L | -- | -- | 0.86 | < 1.2 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.3 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.2 | < 1.3 |
| 8270C | Hexachlorocyclopentadiene | 77-47-4 | UG/L | 50 | -- | 220 | < 3.3 | < 3.4 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.4 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.3 | < 3.4 |
| 8270C | Hexachloroethane | 67-72-1 | UG/L | -- | -- | 4.8 | < 0.92 | < 0.94 | < 0.92 | < 0.91 | < 0.92 | < 0.91 | < 0.91 | < 0.92 | < 0.9 | < 0.93 | < 0.92 | < 0.91 | < 0.9 | < 0.9 | < 0.9 | < 0.9 | < 0.94 |
| 8270C | Indeno(1,2,3-cd)pyrene | 193-39-5 | UG/L | -- | -- | 0.03 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Isophorone | 78-59-1 | UG/L | -- | -- | 71 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | Naphthalene | 91-20-3 | UG/L | -- | -- | 6.2 | < 0.86 | < 0.88 | < 0.86 | < 0.85 | < 0.86 | < 0.85 | < 0.85 | < 0.86 | < 0.84 | < 0.87 | < 0.86 | < 0.85 | < 0.84 | < 0.84 | < 0.84 | < 0.84 | < 0.88 |
| 8270C | Nitrobenzene | 98-95-3 | UG/L | -- | -- | 3.4 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 | < 1.1 |
| 8270C | N-Nitrosodi-n-propylamine | 621-64-7 | UG/L | -- | -- | 0.0096 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 | < 1 |
| 8270C | N-Nitrosodiphenylamine | 86-30-6 | UG/L | -- | -- | 14 | < 0.92 | < 0.94 | < 0.92 | < 0.91 | < 0.92 | < 0.91 | < 0.91 | < 0.92 | < 0.9 | < 0.93 | < 0.92 | < 0.91 | < 0.9 | < 0.9 | < 0.9 | < 0.9 | < 0.94 |
| 8270C | Pentachlorophenol | 87-86-5 | UG/L | 1 | -- | 0.56 | < 5.3 | < 5.4 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | < 5.2 | < 5.4 | < 5.3 | < 5.3 | < 5.2 | < 5.2 | < 5.2 | < 5.2 | < 5.4 |
| 8270C | Phenanthrene | 85-01-8 | UG/L | -- | -- | -- | < 0.98 | < 1 | < 0.98 | < 0.97 | < 0.98 | < 0.97 | < 0.97 | < 0.98 | < 0.96 | < 0.99 | < 0.98 | < 0.97 | < 0.96 | < 0.96 | < 0.96 | < 0.96 | < 1 |
| 8270C | Phenol | 108-95-2 | UG/L | -- | -- | 11000 | < 2.1 | 6.7 J | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2.1 | < 2 | < 2.1 | < 2.1 | < 2.1 | < 2 | < 2 | < 2 | < 2 | < 2.1 |
| 8270C | Propanil | 709-98-8 | UG/L | -- | -- | 180 | < 0.77 | < 0.79 | < 0.77 | < 0.76 | < 0.77 | < 0.76 | < 0.76 | < 0.77 | < 0.75 | < 0.78 | < 0.77 | < 0.76 | < 0.75 | < 0.75 | < 0.75 | < 0.75 | < 0.79 |
| 8270C | Pyrene | 129-00-0 | UG/L | -- | -- | 180 | < 0.9 | < 0.92 | < 0.9 | < 0.89 | < 0.9 | < 0.89 | < 0.89 | < 0.9 | < 0.88 | < 0.91 | < 0.9 | < 0.89 | < 0.88 | < 0.88 | < 0.88 | < 0.88 | < 0.92 |
| | **SVOC TICs** | | | | | | | | | | | | | | | | | | | | | | |
| 8270C | (4-Methoxy-phenyl)-(2-nitrocyc | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | (Methylsulphonyl)ethane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,1,1,5,7,7,7-Heptamethyl-3,3- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,1,2-Trichloroethane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,3,5-Tetrachlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,4-Trimethylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,2,5-Trithiepane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3,4-Thiadiazole, 2,5-dime | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3,5-Trimethylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Butadiene, 2,3-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,3-Dioxolane, 2-ethyl-4-methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4 Dioxane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4-Dioxane | | UG/L | -- | -- | -- | 1.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 | -- | -- | -- | -- |
| 8270C | 1,4-Dithiane | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1,4-Naphthoquinone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Buten-3-yne, 2-tert-butyl | | UG/L | -- | -- | -- | -- | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Methoxy-4-nitro-2,3,5,6-tetr | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Methylnaphthalene | | UG/L | -- | -- | -- | 0.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Naphthalenol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Naphthylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 1-Propanol, 2-amino-2-methyl- | | UG/L | -- | -- | -- | 15 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2(3H)-Furanone, 5-hexyldihy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.0 | -- | -- | -- |
| 8270C | 2(3H)-Furanone, dihydro-4-h | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.1 | -- |
| 8270C | 2(3H)-Furanone, dihydro-5-p | | UG/L | -- | -- | -- | 69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-(4-Nitrophenyl)-5-phenyl[1,3 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Furandione, 3-(1,1-dimethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2,5-Hexanediol, 2,5-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.4 | -- | -- | -- | -- | -- |
| 8270C | 2,5-Pyrrolidinedione, 1-ethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.4 | -- | -- | -- | -- |
| 8270C | 2,6 Dichlorophenol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Butanol, 1-(isopropylamino)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Butanone, 3,3-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.88 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Chloro-4-nitrobenzhydrazide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Ethyl-cyclohexylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2'-Fluoropropiophenone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Hexanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 9.5 | -- | 1.3 | 11 | 1.6 | 6.8 | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Hexyne | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 2-Pentanone, 4-hydroxy-4-methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dimethyl-1H-pyrrole-2-carb | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,4-Dimethyl-o-phenylenediamin | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | MW-22#1 7/23/2008 | MW-22#4 7/23/2008 | MW-23 7/11/2008 | MW-25#1 7/23/2008 | MW-25#4 7/23/2008 | OFF-MW-5.1 7/25/2008 | OFF-MW-5.2 7/25/2008 | OFF-MW-5.3 7/25/2008 | OFF-MW-6.1 7/25/2008 | OFF-MW-6.3 7/25/2008 | OFF-MW-6.5 7/25/2008 | OFF-MW-7.4 7/25/2008 | OFF-MW-7.5 7/24/2008 | OFF-MW-7.6 7/24/2008 | OFF-MW-8.1 7/24/2008 | OFF-MW-8.3 7/24/2008 | OFF-MW-8.5 7/24/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | 3,4-Methylenedioxy-N-ethylamph | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3,5-Dichlorobenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Chloro-4-nitrobenzoic acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Hexanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 | -- | -- | -- | -- | 1.0 | -- | -- | -- | 2.6 | -- | -- |
| 8270C | 3-Pentanol, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Pentanone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Penten-2-ol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 3-Penten-2-one, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4,5-Dimethyl-ortho-phenylenedi | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 4-Methoxybenzhydrazide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 5-Chloro-beznofurazan oxide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 6-Amino-1,3,5-triazine-2,4(1H, | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | 9-Benzhydrylidene-10-anthrone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetamide, N-(3-chlorophenyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetamide, N-(3-methylphenyl)- | | UG/L | -- | -- | -- | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Acetophenone | | UG/L | -- | -- | -- | -- | -- | -- | -- | 0.38 | -- | -- | -- | -- | -- | -- | -- | -- | 0.29 | -- | -- | -- |
| 8270C | Barbital | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzaldehyde | | UG/L | -- | -- | -- | -- | 1.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzaldehyde, 3-phenoxy- | | UG/L | -- | -- | -- | -- | 33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,4,5-trichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 2,6-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 3-(trifluoromethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, 4-chloro-N-methyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenamine, N-ethyl-3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,2,3-trimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,3-diethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,4-dichloro-2-nitro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1,4-diethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1-chloro-4-isocyanato | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, 1-ethyl-2,4-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene, methoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzene,-1-nitro-2,5-dichloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzeneacetamide, N,N-dimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzeneacetic acid, 3-hydro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzenesulfonamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2,4-dimethyl- | | UG/L | -- | -- | -- | -- | 5.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2-amino-5-chloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 2-amino-6-chloro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3,5-dichloro-, m | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-chloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 3-methyl-, methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-, methy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-2-nitro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-chloro-3-nitro | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Benzoic acid, 4-methyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Bromacil | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Butanal, 3-hydroxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Caprolactam | | UG/L | -- | -- | -- | -- | -- | -- | 0.35 | 0.88 | -- | -- | -- | -- | -- | -- | -- | 1.9 | 3.2 | -- | -- | -- |
| 8270C | Caprolactum | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 | -- |
| 8270C | Carbaryl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Chlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Cyclohexanemethanol, 4-hydroxy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.4 | 2.0 | -- | -- | 2.1 | -- | -- | -- | 1.1 | 2.3 |
| 8270C | Cyclohexanone, 3,3,5-trimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Cyclohexasiloxane, dodecamethy | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.99 | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 |
| 8270C | Diethyl 4,4'-methylenedialloph | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Diethyltoluamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Dinoseb | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 6**
**Summer 2008 Groundwater Sampling Results**
**Cedar Chemical Facility**
**Helena-West Helena, AR**
**Project 13636**

| Analytical Method | Analyte | CASRN | Units | Primary Drinking Water Std (ug/L) | Secondary Drinking Water Std (ug/L) | TapWater MSSL (ug/l) | MW-22#1 7/23/2008 | MW-22#4 7/23/2008 | MW-23 7/11/2008 | MW-25#1 7/23/2008 | MW-25#4 7/23/2008 | OFF-MW-5.1 7/25/2008 | OFF-MW-5.2 7/25/2008 | OFF-MW-5.3 7/25/2008 | OFF-MW-6.1 7/25/2008 | OFF-MW-6.3 7/25/2008 | OFF-MW-6.5 7/25/2008 | OFF-MW-7.4 7/25/2008 | OFF-MW-7.5 7/24/2008 | OFF-MW-7.6 7/24/2008 | OFF-MW-8.1 7/24/2008 | OFF-MW-8.3 7/24/2008 | OFF-MW-8.5 7/24/2008 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8270C | Dinoseb triethylamine salt | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Disulfide, dimethyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethane, diazo- | | UG/L | -- | -- | -- | -- | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethanone, 2-hydroxy-1,2-bis | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethenamine, N-methylene- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethyl cyclopropanecarboxylate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Ethyl methanesulphinate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Formamide, N-(3,4-dichlorophen | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Hexadecenoic acid, Z-11- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.42 | -- | -- |
| 8270C | Hexanedioic acid, dicyclohexyl | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.4 | -- | -- |
| 8270C | Hexanedioic acid, dimethyl est | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.47 | 0.72 | 1.7 | 1.4 | 1.4 | 1.0 | -- | -- | -- | 0.68 | 0.97 |
| 8270C | Hydrastindiol | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methane, diethoxy- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.4 | -- | -- | -- | -- | -- |
| 8270C | Methanone, (2-hydroxyphenyl)(4 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Methoxychlor | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Morpholine, 4-propionyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.0 | 23 | -- | -- | -- |
| 8270C | m-Phenoxybenzoic acid | | UG/L | -- | -- | -- | -- | 18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N,N-Dimethylformamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | n-Hexadecanoic acid | | UG/L | -- | -- | -- | 2.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.47 | -- | -- |
| 8270C | N-Nitrosodimethylamine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-Nitrosomorpholine | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Noruron | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | n-Propylbenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | N-tert-Butylacetamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | o-Chloroaniline hydrochloride | | UG/L | -- | -- | -- | -- | 1500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 28 | -- | -- | -- |
| 8270C | Octanoic Acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.5 | -- | -- | -- |
| 8270C | O-Methyl-N-methylcarbamate | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 9.3 | 2.3 | -- | -- | -- |
| 8270C | o-Toluidine | | UG/L | -- | -- | -- | -- | 0.24 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Oxirane, trimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Oxybenzone | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentachlorobenzene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentane, 1-(1-butenyloxy)-, (Z | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pentanedioic acid, dimethyl es | | UG/L | -- | -- | -- | -- | -- | -- | 13 | -- | -- | 9.1 | 7.2 | 9.1 | 16 | 10 | 13 | 11 | -- | -- | 11 | 3.6 |
| 8270C | Phenol, (1,1,3,3-tetramethylbu | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 2-(1-methylpropyl)- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 3,4-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 3,5-dichloro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1,1,3,3-tetramethyl | | UG/L | -- | -- | -- | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1,1-dimethylpropyl) | | UG/L | -- | -- | -- | 16 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Phenol, 4-(1-methylpropyl)- | | UG/L | -- | -- | -- | -- | 130 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Piperazine, 1-phenyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pronamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propanoic acid, 2,2-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | -- | -- |
| 8270C | Propanoic acid, 2-methyl-, 2,2 | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Propionic acid, 2,2'-dithiodi- | | UG/L | -- | -- | -- | -- | 48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Pyrazole, 1-methyl-4-nitro- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | s-Triazolo[4,3-a]pyrazine, 3-a | | UG/L | -- | -- | -- | 19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Tetradecanamide | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.9 | -- | -- | -- | -- |
| 8270C | Thiocyanic acid, ethyl ester | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Toluene | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown | | UG/L | -- | -- | -- | 0.84 | 10 | 17 | 6.2 | 12 | 0.95 | 0.46 | 0.59 | 1.3 | 0.84 | 1.4 | 1.3 | 18 | 12 | 1.2 | 0.54 | 0.59 |
| 8270C | Unknown Alcohol | | UG/L | -- | -- | -- | 35 | 5.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Amide | | UG/L | -- | -- | -- | 21 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Amine | | UG/L | -- | -- | -- | 1.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Unknown Organic Acid | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 8270C | Urea, N,N'-dimethyl- | | UG/L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Notes:

Exceeds the primary Drinking Water Standard

Exceed the Secondary Drinking Water Standard

**Bold** Exceeds the Region 6 Tap Water MSSL

-- No data available for reported analyte

is the approximate concentration of the analyte in the sample.

NA No MSSL is published for the analyte