

# 2003 Water Analysis



*The following are the most recent water analysis of the Upper Leon River MWD as required by the Texas Natural Resource Conservation Commission and the Federal EPA.*

Analysis Type	Collection Date	Analysis Date
SOC <sub>5</sub>	06/17/03	06/23/03
VOC	06/17/03	06/19/03
Minerals	06/17/03	07/21/03 (reported)
Radiochemicals	06/17/03	06/25/03 (reported)
Radiochemicals	09/29/03	12/29/03 (reported)

# TEXAS DEPARTMENT OF HEALTH

## WATER ANALYSIS RESULTS by GC/MS

Submitter Number: 0470015	Date Collected: 6/17/03
TDH Sample Number: ep03-08839	Date Extracted: 6/23/03
Method: 525.2 Rev 1.0 SOC5	Date Analyzed: 6/23/03
Data File Number: A8621.D	Analyst: dhardin
QC Batch: o01s0623	Dilution Factor: 1.02
Sample Type: water	Conc. Units: µg/L

Pesticides	Result:	PAHs (cont).	Result:
• Alachlor	<0.20	Benzo[a]anthracene	<0.20
Aldrin	<0.20	• Benzo[a]pyrene	<0.20
• Atrazine	<0.20	Benzo[b]fluoranthene	<0.20
Bromacil	<0.20	Benzo[g,h,i]perylene	<0.20
Butachlor	<0.20	Benzo[k]fluoranthene	<0.20
• Chlordane (alpha-chlordane)	<0.20	Chrysene	<0.20
• Chlordane (gamma-chlordane)	<0.20	Dibenz[a,h]anthracene	<0.20
• Chlordane (trans-nonachlor)	<0.20	Fluorene	<0.20
Dieldrin	<0.20	Indeno[1,2,3,c,d]pyrene	<0.20
• Endrin	<0.20	Naphthalene	<0.20
• Heptachlor	<0.20	Phenanthrene	<0.20
• Heptachlor epoxide	<0.20	Pyrene	<0.20
• Hexachlorobenzene	<0.20		
• Hexachlorocyclopentadiene*	<1.02	<b>PCBs</b>	<b>Result:</b>
• Lindane	<0.20	2-Chlorobiphenyl	<0.20
• Methoxychlor	<0.20	2,3-Dichlorobiphenyl	<0.20
Metolachlor	<0.20	2,4,5-Trichlorobiphenyl	<0.20
Metribuzin	<0.20	2,2',4,4'-Tetrachlorobiphenyl	<0.20
Parathion, ethyl	<0.20	2,2',3',4,6-Pentachlorobiphenyl	<0.20
Parathion, methyl	<0.20	2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20
• Pentachlorophenol	<1.02	2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.51
Prometon ##	<0.20	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.51
Propachlor	<0.20		
• Simazine	<0.20	<b>Phthalates**</b>	<b>Result:</b>
Trifluralin	<0.20	• Di-(2-ethylhexyl)adipate	<2.04
		• Di-(2-ethylhexyl)phthalate	<2.04
<b>PAHs</b>	<b>Result:</b>	Butylbenzylphthalate	<2.04
Acenaphthene	<0.20	Di-n-butylphthalate	<2.04
Acenaphthylene	<0.20	Diethylphthalate	<2.04
Anthracene	<0.20	Dimethylphthalate	<2.04

\* This analyte is of known instability and quantitation should be considered approximate

\*\* Phthalate contamination is unavoidable with this method's extraction technique.

Consequently, phthalate levels cannot be accurately measured below 2.0 µg/L.

# Analyte detected below the quantitation limit.

## This analyte is known for extraction instability and quantitation should be considered approximate.

• Regulated compounds

Comments:

TEXAS DEPARTMENT OF HEALTH  
VOLATILE ORGANIC COMPOUNDS by GC/MS

Submitter Number	TX0470015	Date Collected:	06/17/2003
TDH Sample Number	EP03-08837	Date Extracted:	06/19/2003
Method:	EPA 524.2 rev. 4.1	Date Analyzed:	06/19/2003
Data File Number:	18JUN-32.D	Analyst:	M. Kabay
Q.C. File:	OV040618.S	Dilution Factor:	1
Sample Type:	water	Concentration Units:	µg/l

<u>Regulated Cmpds. [40 CFR §141.61(a)]</u>	<u>Result</u>
Benzene	<0.5
Carbon tetrachloride	<0.5
Chlorobenzene	<0.5
1,2-Dichlorobenzene	<0.5
1,4-Dichlorobenzene	<0.5
1,2-Dichloroethane	<0.5
1,1-Dichloroethane	<0.5
cis-1,2-dichloroethane	<0.5
trans-1,2-Dichloroethane	<0.5
1,2-Dichloropropane	<0.5
Methylene chloride (DCM)	<0.5
Ethyl benzene	<0.5
Styrene	<0.5
Tetrachloroethene	<0.5
Toluene	<0.5
1,2,4-Trichlorobenzene	<0.5
1,1,1-Trichloroethane	<0.5
1,1,2-Trichloroethane	<0.5
Trichloroethene	<0.5
Vinyl chloride	<0.5
m&p-Xylene	<1.0
o-Xylene	<0.5

<u>Monitored Cmpds. [40 CFR §141.40(j)]</u>	<u>Result</u>
1,2,4-Trimethylbenzene	<1.0
1,2,3-Trichlorobenzene	<1.0
n-Propylbenzene	<1.0
n-Butylbenzene	<1.0
Naphthalene	<1.0
Hexachlorobutadiene	<1.0
1,3,5-Trimethylbenzene	<1.0
4-Isopropyltoluene	<1.0
Isopropylbenzene	<1.0
t-Butylbenzene	<1.0
s-Butylbenzene	<1.0
Trichlorofluoromethane	<2.0
Dichlorodifluoromethane	<2.0
Bromochloromethane	<1.0

Other Compounds

Acetone	<10
Acrylonitrile	<10
2-Butanone (MEK)	<10
Carbon disulfide	<1.0
Ethyl methacrylate	<1.0
2-Hexanone	<1.0
Iodomethane	<2.0
Methyl methacrylate	<1.0
4-Methyl-2-pentanone (MIBK)	<2.0
Methyl-t-butyl ether (MTBE)	<2.0
Tetrahydrofuran	<2.0
Vinyl acetate	<10

Monitored Cmpds. [40 CFR §141.40(e)]

<b>Chloroform</b>	<b>5.0</b>
<b>Bromodichloromethane</b>	<b>14</b>
<b>Dibromochloromethane</b>	<b>19</b>
<b>Bromoform</b>	<b>8.3</b>
Dibromomethane	<1.0
1,3-Dichlorobenzene	<1.0
1,1-Dichloropropene	<1.0
1,1-Dichloroethane	<1.0
1,1,2,2-Tetrachloroethane	<1.0
1,3-Dichloropropane	<1.0
Chloromethane	<2.0
Bromomethane	<2.0
1,2,3-Trichloropropane	<1.0
1,1,1,2-Tetrachloroethane	<1.0
Chloroethane	<2.0
2,2-Dichloropropane	<1.0
2-Chlorotoluene	<1.0
4-Chlorotoluene	<1.0
Bromobenzene	<1.0
cis-1,3-Dichloropropene	<2.0
trans-1,3-Dichloropropene	<1.0

\* Screened Compounds

1,2-Dibromo-3-chloropropane	<1.0
1,2-Dibromoethane	<1.0

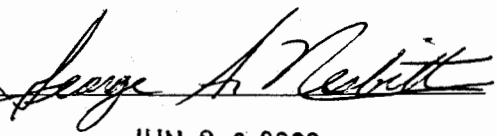
\* EPA 524.2 is not the approved method for analysis of these compounds. Compounds are listed per TCEQ request.

Tentative identification of the largest non-priority pollutant peaks is provided by comparison with the EPA/NIH mass spectral library. Approximate quantitation is performed using internal standards and an assumed response factor of one.

<u>Tentative Compound ID</u>	<u>Result</u>
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None

Comments:

Approval: 

JUN 30 2003



# Texas Department of Health

1100 WEST 49TH STREET  
AUSTIN, TEXAS 78756-3194  
(512) 458-7318

BUREAU OF LABORATORIES  
CLIA #45D0660644

## CONFIDENTIAL LABORATORY REPORT

### WATER ANALYSIS REPORT MINERALS

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD

PO BOX 67  
COMANCHE, TX 76442-67

Laboratory Number: EP308862

Date Collected: 06/17/2003

Sample Type:

Date Received: 06/18/2003

Sample Source: MAP 1

Date Reported: 07/21/2003

Entry Points: 001

Collector Remarks:

Constituent Name	Result	Units	+/-
Chloride	95	mg/l	
Fluoride	0.2	mg/l	
Nitrate	0.14	mg/l	
Sulfate	79	mg/l	
pH	7.6		
Dil. Conduct (umhos/cm)	740		
Tot. Alka. as CaCO3	111	mg/l	
Bicarbonate	135	mg/l	
Carbonate	0	mg/l	
Dissolved solids	407	mg/l	
P. Alkalinity as CaCO3	0	mg/l	



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CONFIDENTIAL LABORATORY REPORT  
**WATER ANALYSIS REPORT**  
**RADIOCHEMICALS**

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD

PO BOX 67  
COMANCHE, TX 76442-67

Laboratory Number: EP309350

Date Collected: 06/17/2003

Sample Type:

Date Received: 06/24/2003

Sample Source: MAP 16

Date Reported: 06/25/2003

Entry Points: 001

Collector Remarks: UNSAT/TOO OLD >5 DAYS

Constituent Name	Result	Units	+/-
Radium 228	NOT TESTED - OTHER		
Gross Beta	NOT TESTED - OTHER		
Gross Alpha Particle Activity	NOT TESTED - OTHER		



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**CONFIDENTIAL LABORATORY REPORT**  
**WATER ANALYSIS REPORT**  
**RADIOCHEMICALS**

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD

PO BOX 67  
COMANCHE, TX 76442-0067

Laboratory Number: EP316476  
Sample Type:  
Sample Source: MAP 16  
Entry Points: 001  
Collector Remarks:

Date Collected: 09/29/2003  
Date Received: 09/30/2003  
Date Reported: 12/29/2003

<u>Constituent Name</u>	<u>Result</u>	<u>Units</u>	<u>+/-</u>
Radium 228	< 1.0	pCi/l	
Gross Beta	9.4	pCi/l	1.9
Gross Alpha Particle Activity	< 2.0	pCi/l	