

2006 Water Analysis



The following are water analysis of the Upper Leon River MWD, for the year indicated, as required by the Texas Commission on Environmental Quality (TCEQ) and the Federal EPA

Analysis Type	Collection Date	Analysis Date
SOC ₅	02/08/06	04/18/06 (reported)
Minerals	02/08/06	02/22/06 (reported)
Radiochemicals	002/08/06	04/18/06 (reported)
Trihalomethanes (THM)	07/26/06	07/28/06
VOC	07/26/06	08/01/06
Haloacetic Acids (HAA5)	07/26/06	08/03/06

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

WATER ANALYSIS RESULTS by GC/MS

1100 W. 49th Street
Austin, TX 78756

Contact: Carl Hogberg
(512)458-7318

Water System ID # 0470015
 DSHS Sample ID # EP6-03338
 Method: 525.2 Rev 1.0 SOC5
 Data File Number: C4588.D
 QC Batch: o03s0217
 Sample Type: water
 TCEQ Sample ID # 0617822

Date Collected: 2/8/06
 Date Extracted: 2/17/06
 Date Analyzed: 2/17/06
 Analyst: dhardin
 Dilution Factor: 1.02
 Conc. Units: µg/L

Pesticides	Result:
• Alachlor	<0.20
Aldrin	<0.20
• Atrazine	<0.20
Bromacil	<0.20
Butachlor	<0.20
• Chlordane (alpha-chlordane)	<0.20
• Chlordane (gamma-chlordane)	<0.20
• Chlordane (trans-nonachlor)	<0.20
Dieldrin	<0.20
• Endrin	<0.20
• Heptachlor	<0.20
• Heptachlor epoxide	<0.20
• Hexachlorobenzene	<0.20
• Hexachlorocyclopentadiene*	<1.02
• Lindane	<0.20
• Methoxychlor	<0.20
Metolachlor	<0.20
Metribuzin	<0.20
• Pentachlorophenol	<1.02
Prometon #	<0.20
Propachlor	<0.20
• Simazine	<0.20
Trifluralin	<0.20

PAHs	Result:
Acenaphthene	<0.20
Acenaphthylene	<0.20
Anthracene	<0.20
Benzo[a]anthracene	<0.20
• Benzo[a]pyrene	<0.20

PAHs (cont).	Result:
Benzo[b]fluoranthene	<0.20
Benzo[g,h,i]perylene	<0.20
Benzo[k]fluoranthene	<0.20
Chrysene	<0.20
Dibenz[a,h]anthracene	<0.20
Fluorene	<0.20
Indeno[1,2,3,c,d]pyrene	<0.20
Naphthalene	<0.20
Phenanthrene	<0.20
Pyrene	<0.20

PCBs	Result:
2-Chlorobiphenyl	<0.20
2,3-Dichlorobiphenyl	<0.20
2,4,5-Trichlorobiphenyl	<0.20
2,2',4,4'-Tetrachlorobiphenyl	<0.20
2,2',3',4,6-Pentachlorobiphenyl	<0.20
2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20
2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.51
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.51

Phthalates	Result:
• Di-(2-ethylhexyl)adipate	<2.04
• Di-(2-ethylhexyl)phthalate	<2.04
Butylbenzylphthalate	<2.04
Di-n-butylphthalate	<2.04
Diethylphthalate	<2.04
Dimethylphthalate	<2.04

Tentatively Identified Cmpds** Result:
None

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

** Significant nontarget peaks are tentatively identified using a mass spectral library search and quantitated using an assumed response factor of one.

J Analyte detected below the quantitation limit.

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

- Regulated compounds

Comments: The recoveries for anthracene were below QC limits in both laboratory fortified blank (LFB) QC samples.

Approval:  FEB 17 2006



Texas Department of State Health Services

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LABORATORY SERVICES SECTION
CLIA #45D0660644

CONFIDENTIAL LABORATORY REPORT
WATER ANALYSIS REPORT
MINERALS

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD

PO BOX 67
COMANCHE, TX 76442-0067

Laboratory Number: EP603352
Sample Type:
Sample Source: 0604760
Entry Points: 001
Collector Remarks:

Date Collected: 02/08/2005
Date Received: 02/10/2006
Date Reported: 02/22/2006

Constituent Name	Result	Units	+/-
Chloride	162	mg/l	
Fluoride	0.3	mg/l	
Nitrate	0.15	mg/l	
Sulfate	75	mg/l	
pH	7.6		
Dil. Conduct (umhos/cm)	918		
Tot. Alka. as CaCO3	120	mg/l	
Bicarbonate	146	mg/l	
Carbonate	0	mg/l	
Dissolved solids	516	mg/l	
Total Alkalinity as CaCO3	0	mg/l	



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LABORATORY SERVICES SECTION
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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: EP603057
Sample Type:
Sample Source: 0614582
Entry Points: 001
Collector Remarks:

Date Collected: 02/08/2006
Date Received: 02/10/2006
Date Reported: 04/18/2006

Constituent Name	Result	Units	+/-
Radium 228	< 1.0	pCi/l	
Gross Beta	9.5	pCi/l	1.4
Gross Alpha Particle Activity	< 2.0	pCi/l	

1100 W. 49th Street
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Department of State Health Services Trihalomethanes by GC-ELCD

Contact: Carl Hogberg
(512)458-7318

Water System ID: 0470015
DSHS Lab ID: EP6-15632
Method: EPA 502.2 Rev. 2.1 (THM)
Data File: 07280017.D
QC File: D:\HPCHEM\1\DATA\I001G0728
Sample Type: Water
TCEQ ID: 0620049

Date Collected: 07/26/2006
Date Prepared: 07/28/2006
Date Analyzed: 7/28/2006 6:22
Analyst: CSawyer
Dilution Factor: 1
Concentration Units: µg/L

Compound:	Result:
Chloroform	3.8
Bromodichloromethane	9.1
Dibromochloromethane	10.8
Bromoform	7.2
Total THM's	30.9

COMMENTS:

TEXAS DEPARTMENT OF STATE HEALTH SERVICES
VOLATILE ORGANIC COMPOUNDS by GC/MS

Water System I.D.	0470015	Date Collected:	07/26/2006
DSHS Sample I.D.	EP615576	Date Extracted:	08/01/2006
Method:	EPA 524.2 rev. 4.1	Date Analyzed:	08/01/2006
Data File Number:	0801-119.D	Analyst:	MK
Q.C. File:	OV010801.S	Dilution Factor:	1
Sample Type:	Water	Concentration Units:	µg/l
TCEQ I.D.	0616993		

<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-Dichloroethene	<0.5
cis-1,2-Dichloroethene	<0.5
trans-1,2-Dichloroethene	<0.5
1,2-Dichloropropane	<0.5
Methylene chloride (DCM)	<0.5
Ethylbenzene	<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(e)]</u>	<u>Result</u>
Chloroform	4.4
Bromodichloromethane	8.7
Dibromochloromethane	8.0
Bromoform	4.2
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	<1.0
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.

<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	<5.0
Vinyl acetate	<10

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>
None	

Comments:

Approval: 
AUG 03 2006

**Texas Department of State Health Services
Haloacetic Acids GC Results**


Water System ID #	0470015	Date Collected	7/26/06
DSHS Lab ID #	EP6-15592	Date Extracted	8/1/06
Method	552.2	Date Analyzed	8/3/2006 7:33
Data File Name	08020027.D	Analyst	dhardin
QC File	C:\HPCHEM\2\DATA\O04P0802\	Dilution Factor	1
Sample Type	Water	Concentration Units	µg/L
TCEQ Sample ID #	0627087		

Regulated Compounds:	Result:
Monochloroacetic acid	<2.0
Dichloroacetic acid	14.1
Trichloroacetic acid	1.5
Monobromoacetic acid	1.5
<u>Dibromoacetic acid</u>	<u>19.2</u>
Total:	36.3

Monitor Compounds:

Bromochloroacetic acid	18.8
Dalapon	<1.0

Comments:

Approval: 

AUG 4 2006