2005 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
Minerals	01/24/05	02/14/05 (reported)
SOC_5	01/24/05	01/28/05
VOC	07/18/05	07/21/05
Trihalomethanes (THM)	07/18/05	07/20/05
Haloacetic Acids (HAA5)	07/18/05	07/21/05

TEXAS Department of State Health Services

Texas Department of State Health Services

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

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

Laboratory Number: EP501981
Sample Type:
Sample Source: 0507393
Entry Points: 001
Collector Remarks:

Date Collected: 01/24/2005
Date Received: 01/25/2005
Date Reported: 02/14/2005

Constituent Name	Result	Units	+/-
Chloride	75	mg/l	
Fluoride	0.2	mg/l	
Nitrate	0.23	mg/l	
Sulfate	60	mg/l	
pH	7.5		
Dil.Conduct(umhos/cm)	657		
Tot. Alka. as CaCO3	123	mg/l	
Bicarbonate	150	mg/l	
Carbonate	0	mg/l	
Dissolved solids	339	mg/l	
P. Alkalinity as CaCO3	0	mg/l	

Return to Index

TEXAS DEPARTMENT OF STATE HEALTH SERVICES
WATER ANALYSIS RESULTS by GC/MS

1100 W. 49th Street
Austin, TX 78756

Contact: Carl Hogberg
(512)458-7552

Submitter Number:	0470015	Date Collected:	1/24/05
TDH Sample Number:	ep502072	Date Extracted:	1/28/05
Method:	525.2 Rev 1.0 SOC5	Date Analyzed:	1/28/05
Data File Number:	A2238.D	Analyst:	dhardin
QC Batch:	o01s0128	Dilution Factor:	1.02
Sample Type:	water	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:

Return to Index

Approval: JAN 31 2005

1100 W. 49th Street
Austin, TX 78756

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

Contact: Carl Hogberg
(512) 458-7552

Submitter Number	TX0470015	Date Collected:	07/18/2005
TDH Sample Number	**EP518698**	Date Extracted:	07/21/2005
Method:	EPA 524.2 rev. 4.1	Date Analyzed:	07/21/2005
Data File Number:	0721-121.D	Analyst:	M. Kabay
Q.C. File:	OV010721.S	Dilution Factor:	1
Sample Type:	Water	Concentration Units:	µg/l

Regulated Cmpds. [40 CFR §141.61(a)]	Result
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

Monitored Cmpds. [40 CFR §141.40(e)]	
Chloroform	**3.5**
Bromodichloromethane	**7.0**
Dibromochloromethane	**6.2**
Bromoform	**2.6**
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

Đ Screened Compounds	
1,2-Dibromo-3-chloropropane	<1.0
1,2-Dibromoethane	<1.0

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

Monitored Cmpds. [40 CFR §141.40(j)]	Result
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

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.

Tentative Compound ID	Result
None	

Return to Index

Comments:

Approval: George A. Kabbani

JUL 26 2005

1100 W. 49th Street
Austin, TX 78756

Department of State Health Services
Trihalomethanes by GC-ELCD

Contact: Carl Hogberg
(512)458-7318

Submitter ID:	0470015	Date Collected:	7/18/2005
DSHS Lab ID:	EP05-18664	Date Prepared:	7/20/2005
Method:	EPA 502.2 Rev. 2.1 (THM)	Date Analyzed:	7/20/2005 16:04
Data File:	07200014.D	Analyst:	LZhong
QC File:	C:\MSDChem\1\DATA\O03G0720	Dilution Factor:	1
Sample Type:	Water	Concentration Units:	µg/l

Compound:	Result:
Chloroform	4.0
Bromodichloromethane	7.6
Dibromochloromethane	8.1
Bromoform	3.5
Total THM's	23.2

COMMENTS:

Return to Index

Approval:

JUL 21 2005

1100 W 49th Street
Austin TX 78756

Texas Department of State Health Services
Haloacetic Acids GC Results

Contact: Carl Hogberg
(512) 458-7318

Submitter Sample Number	0470015	Date Collected	7/18/2005
TDH Sample Name	EP5-18682	Date Extracted	7/21/2005
Method	552.2	Date Analyzed	7/21/2005 22:46
Data File Name	07210012.D	Analyst	jdefibaugh
QC File	C:\MSDCHEM\2\DATA\O19P0721\	Dilution Factor	1
Sample Type	Water	Concentration Units	µg/L

Regulated Compounds:	Result:
Monochloroacetic acid	2.5
Dichloroacetic acid	15.1
Trichloroacetic acid	1.9
Monobromoacetic acid	2.0
Dibromoacetic acid	20.9
Total:	42.4

Monitor Compounds:	
Bromochloroacetic acid	20.7
Dalapon	<1.0

Comments:

Return to Index

Rev #5 9/04

Approval:

JUL 27 2005