

2011 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	03/01/11	03/03/11
Trihalomethanes (TTHM)	03/01/11	03/03/11
Single Metal	03/01/11	03/03/11
Haloacetic Acids (HAA5)	03/01/11	03/08/11
VOC	03/01/11	03/08/11
Trihalomethanes (TTHM)	06/14/11	06/20/11
Haloacetic Acids (HAA5)	06/14/11	06/24/11
Pesticides	06/14/11	06/30/11
SOC ₅	06/14/11	06/27/11
Trihalomethanes (TTHM)	09/21/11	09/23/11
Haloacetic Acids (HAA5)	09/21/11	10/04/11
Trihalomethanes (TTHM)	11/01/11	11/03/11
Haloacetic Acids (HAA5)	11/01/11	11/08/11



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*ALL MINERALS Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 03/25/2011
Report ID#: 20110328153038AB49707

Lab Sample ID# : AB49707
Sample Priority : NORMAL
TCEQ ID#(s) : 1116066

Water Source :
Entry Point(s) : EP001

Date Collected : 03/01/2011 13:58
Date Received : 03/03/2011

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
pH	7.1	pH	SM 4500-H B	03/03/2011 14:00	MD
Diluted Conductance ¹	942	µmho/cm	SM 2510 B	03/21/2011 11:30	AO
Phenolphthalein Alkalinity as CaCO ₃	<1	mg/L	SM 2320B	03/07/2011 08:30	MD
Total Alkalinity as CaCO ₃	102	mg/L	SM 2320B	03/07/2011 08:30	MD
Bicarbonate	124	mg/L	SM 2320B	03/07/2011 08:30	MD
Carbonate	<1	mg/L	SM 2320B	03/07/2011 08:30	MD
Fluoride ¹	0.28	mg/L	EPA 300.0	03/17/2011 23:36	BF
Chloride ¹	148	mg/L	EPA 300.0	03/18/2011 11:12	BF
Sulfate ¹	98	mg/L	EPA 300.0	03/18/2011 11:12	BF
Total Dissolved Solids ¹	481	mg/L	SM 2540C	03/04/2011 08:00	AO
Nitrate as N ¹	0.08	mg/L	EPA 353.2	03/04/2011 12:39	AH

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all NELAC (2003 Standard) requirements.

Authorized by Team Lead LARCHER on 03/22/2011



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Trihalomethanes Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 03/17/2011
Report ID# : 20110317162522AB49724

Lab Sample ID# : AB49724
Sample Priority : NORMAL
TCEQ ID#(s) : 1102503

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 03/01/2011 14:47
Date Received : 03/03/2011
Date Analyzed : 03/03/2011

Conc. Units : µg/L
Method : EPA 502.2
Analyst : RD
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	3.3	
Bromodichloromethane	11.9	
Dibromochloromethane	26.1	
Bromoform	35.3	
Total THM ¹	76.6	

Comments:

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*SINGLE METAL Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 03/15/2011
Report ID# : 20110315152834AB49716

Lab Sample ID# : AB49716
Sample Priority : NORMAL
TCEQ ID#(s) : 1116061

Water Source :
Entry Point(s) : EP001

Date Collected : 03/01/2011 13:59
Date Received : 03/03/2011

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Acidification	Completed		EPA 200.2	03/03/2011	EB
pH Check	Completed		EPA 200.2	03/04/2011	IU
Turbidity Screen	Completed		SM 2130B	03/04/2011	IU
Visible Particles	Completed			03/04/2011	IU
Sodium ¹	75.9	mg/L	EPA 200.7	03/08/2011	JK

Comments:

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Authorized by Team Lead EBOYER on 03/10/2011



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 03/15/2011
Report ID# : 20110315152834AB49734

Lab Sample ID# : AB49734	Water Source :	Date Collected : 03/01/2011 14:45	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : DBP1-01	Date Received : 03/03/2011	Method : 552.2 Rev 1.0
TCEQ ID#(s) : 1102499		Date Analyzed : 03/08/2011	Analyst : JL
		Extraction Date : 03/04/2011	Sample Cond. : Acceptable

<u>Regulated Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Monochloroacetic acid	<2.0	
Dichloroacetic acid	6.6	
Trichloroacetic acid	1.2	
Monobromoacetic acid	1.4	
Dibromoacetic acid	13.8	
Total HAA5 ¹	23.0	
<u>Monitored Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Bromochloroacetic acid	10.2	
Dalapon	<1.0	

Comments:

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Authorized by Team Lead TDUNN on 03/14/2011



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**Volatile Organic Compounds by GC/MS
 Analysis Report**

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
 2250 HIGHWAY 2861
 COMANCHE, TX 76442-5619

Date Reported : 03/22/2011
 Report ID# : 20110322084258AB49739

Lab Sample ID# : AB49739	Water Source :	Date Collected : 03/01/2011 13:57	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 03/03/2011	Method : EPA 524.2
TCEQ ID#(s) : 1116062		Date Analyzed : 03/08/2011	Analyst : MK
			Sample Cond. : Acceptable

Regulated Cmpds.[40 CFR 141.61(a)]	Result	Qualifier	Monitored Cmpds.[40 CFR 141.40(j)]	Result	Qualifier
Benzene ¹	<0.5		1,2,4-Trimethylbenzene	<1.0	
Carbon tetrachloride ¹	<0.5		1,2,3-Trichlorobenzene	<1.0	
Monochlorobenzene ¹	<0.5		n-Propylbenzene	<1.0	
o-Dichlorobenzene ¹	<0.5		n-Butylbenzene	<1.0	
para-Dichlorobenzene ¹	<0.5		Naphthalene	<1.0	
1,2-Dichloroethane ¹	<0.5		Hexachlorobutadiene	<1.0	
1,1-Dichloroethylene ¹	<0.5		1,3,5-Trimethylbenzene	<1.0	
cis-1,2-Dichloroethylene ¹	<0.5		4-Isopropyltoluene	<1.0	
trans-1,2-Dichloroethylene ¹	<0.5		Isopropylbenzene	<1.0	
1,2-Dichloropropane ¹	<0.5		t-Butylbenzene	<1.0	
Dichloromethane ¹	<0.5		s-Butylbenzene	<1.0	
Ethylbenzene ¹	<0.5		Trichlorofluoromethane	<2.0	
Styrene ¹	<0.5		Dichlorodifluoromethane	<2.0	
Tetrachloroethylene ¹	<0.5		Bromochloromethane	<1.0	
Toluene ¹	<0.5		Other Compounds	Result	Qualifier
1,2,4-Trichlorobenzene ¹	<0.5		Acetone	<10	
1,1,1-Trichloroethane ¹	<0.5		Acrylonitrile	<10	
1,1,2-Trichloroethane ¹	<0.5		2-Butanone (MEK)	<2.0	
Trichloroethylene ¹	<0.5		Carbon disulfide	<1.0	
Vinyl chloride ¹	<0.5		Ethyl methacrylate	<1.0	
Xylenes (total) ¹	<0.5		2-Hexanone	<1.0	
Monitored Cmpds.[40 CFR 141.40(e)]	Result	Qualifier	Iodomethane	<2.0	
Chloroform	2.2		Methyl methacrylate	<1.0	
Bromodichloromethane	8.0		4-Methyl-2-pentanone (MIBK)	<2.0	
Dibromochloromethane	14		Methyl-t-butyl ether (MTBE)	<2.0	
Bromoform	16		Tetrahydrofuran	<5.0	
Dibromomethane	<1.0		Vinyl acetate	<10	
1,3-Dichlorobenzene	<1.0		Comments:		
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				

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Authorized by Team Lead GNESBITT on 03/18/2011



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Lab Copy/Reprint

Trihalomethanes by GC/MS Analysis Report

Lab Copy/Reprint

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/01/2011

Report ID# : 20110701162034AB60180

Lab Sample ID# : AB60180
Sample Priority : NORMAL
TCEQ ID#(s) : 1176783

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 06/14/2011 12:58
Date Received : 06/17/2011
Date Analyzed : 06/20/2011

Conc. Units : µg/L
Method : EPA 524.2
Analyst : JO

Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	6.1	
Bromodichloromethane	20.4	
Dibromochloromethane	35.0	
Bromoform	36.7	
Total Trihalomethanes ¹	98.2	
Screened Compounds	Result	Qualifier
Vinyl chloride ¹	<0.5	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all NELAC (2003 Standard) requirements.

Authorized by Analyst HHAJIPOUR815 on 06/28/2011



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 06/28/2011
Report ID#: 20110628130856AB60179

Lab Sample ID# : AB60179
Sample Priority : NORMAL
TCEQ ID#(s) : 1170250

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 06/14/2011 12:56
Date Received : 06/17/2011
Date Analyzed : 06/24/2011
Extraction Date : 06/22/2011
Conc. Units : µg/L
Method : 552.2 Rev 1.0
Analyst : JL
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	11.8	
Trichloroacetic acid	2.2	
Monobromoacetic acid	2.4	
Dibromoacetic acid	21.0	
Total HAA5 ¹	37.4	
Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	18.2	
Dalapon	<1.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all NELAC (2003 Standard) requirements.

Authorized by Analyst DHARDIN on 06/28/2011



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Pesticides by Method 508.1 Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 07/12/2011
Report ID# : 20110712140402AB60164

Lab Sample ID# : AB60164	Water Source :	Date Collected : 06/14/2011 12:24	Conc. Units : ug/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 06/17/2011	Method : 508.1 Rev. 2.0
TCEQ ID#(s) : 1156239		Date Analyzed : 06/30/2011	Analyst : FB
		Extraction Date : 06/24/2011	Sample Cond. : Acceptable

<u>Regulated Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Chlordane ¹	<0.20	
Endrin ¹	<0.01	
Heptachlor epoxide ¹	<0.02	
Toxaphene ¹	<1.0	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all NELAC (2003 Standard) requirements.

Authorized by Team Lead TDUNN on 07/07/2011



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Semivolatiles Organic Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
 2250 HIGHWAY 2861
 COMANCHE, TX 76442-5619

Date Reported : 07/12/2011
 Report ID# : 20110712140402AB60164

Lab Sample ID# : AB60164	Water Source :	Date Collected : 06/14/2011 12:24	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 06/17/2011	Method : EPA 525.2
TCEQ ID#(s) : 1156239		Date Analyzed : 06/27/2011	Analyst : DH
		Extraction Date : 06/24/2011	Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier	Monitored Compounds continued	Result	Qualifier
Alachlor ¹	<0.2		Dimethylphthalate	<2.0	
Atrazine ¹	<0.1		Fluorene	<0.20	
Benzo[a]pyrene ¹	<0.02		2,2',3,3',4,4',6-Heptachlorobiphenyl	<0.50	
alpha-Chlordane	<0.2		2,2',4,4',5,6'-Hexachlorobiphenyl	<0.20	
gamma-Chlordane	<0.2		Indeno[1,2,3-cd]pyrene	<0.20	
trans-Nonachlor	<0.2		Metolachlor	<0.20	
Di(2-ethylhexyl) adipate ¹	<0.6		Metribuzin	<0.20	
Di(2-ethylhexyl) phthalate ¹	<0.6		Naphthalene	<0.20	
Heptachlor ¹	<0.04		2,2',3,3',4,5',6,6'-Octachlorobiphenyl	<0.50	
Hexachlorobenzene ¹	<0.1		2,2',3',4,6-Pentachlorobiphenyl	<0.20	
Hexachlorocyclopentadiene ¹	<0.1	*	Phenanthrene	<0.20	
Lindane ¹	<0.02		Prometon	<0.20	*
Methoxychlor ¹	<0.1		Propachlor	<0.20	
Pentachlorophenol ¹	<0.04		Pyrene	<0.20	
Simazine ¹	<0.07		2,2',4,4'-Tetrachlorobiphenyl	<0.20	
Monitored Compounds	Result	Qualifier	2,4,5-Trichlorobiphenyl	<0.20	
Acenaphthene	<0.20		Trifluralin	<0.20	
Acenaphthylene	<0.20				
Aldrin	<0.20		Comments:		
Anthracene	<0.20		* - This analyte has known instability and/or method performance issues and quantitation should be considered approximate.		
Benzo(a)anthracene	<0.20		The test results on this report relate only to the sample identified on this report. The test results for analytes noted(†) meet all NELAC (2003 Standard) requirements.		
Benzo[b]fluoranthene	<0.20				
Benzo[g,h,i]perylene	<0.20				
Benzo[k]fluoranthene	<0.20				
Bromacil	<0.20				
Butachlor	<0.20				
Butylbenzylphthalate	<2.0				
2-Chlorobiphenyl	<0.20				
Chrysene	<0.20				
Dibenz[a,h]anthracene	<0.20				
Di-n-butylphthalate	<2.0				
2,3-Dichlorobiphenyl	<0.20				
Dieldrin	<0.20				
Diethylphthalate	<2.0				

Authorized by Team Lead TDUNN on 07/07/2011



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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 10/13/2011
Report ID#: 20111013092845AB70851

Lab Sample ID# : AB70851
Sample Priority : NORMAL
TCEQ ID#(s) : 1179555

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 09/21/2011 13:25
Date Received : 09/23/2011
Date Analyzed : 09/23/2011

Conc. Units : µg/L
Method : EPA 524.2
Analyst : JO
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	5.5	
Bromodichloromethane	20.3	
Dibromochloromethane	50.3	
Bromoform	67.1	
Total Trihalomethanes ¹	143	
Screened Compounds	Result	Qualifier
Vinyl chloride ¹	<0.5	

Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(¹) meet all TNI (2009 Standard) requirements.

Authorized by Analyst HHAJIPOUR815 on 10/11/2011



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 10/11/2011
Report ID# : 20111011135127AB70889

Lab Sample ID# : AB70889	Water Source :	Date Collected : 09/21/2011 13:22	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : DBP1-01	Date Received : 09/23/2011	Method : 552.2 Rev 1.0
TCEQ ID#(s) : 1173023		Date Analyzed : 10/04/2011	Analyst : JL
		Extraction Date : 09/29/2011	Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	11.6	
Trichloroacetic acid	2.5	
Monobromoacetic acid	3.6	
Dibromoacetic acid	28.9	
Total HAA5 ¹	46.6	

Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	21.5	
Dalapon	<1.0	

Comments:

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Authorized by Team Lead TDUNN on 10/07/2011



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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 11/22/2011
Report ID# : 20111122093932AB73809

Lab Sample ID# : AB73809
Sample Priority : NORMAL
TCEQ ID#(s) : 1180702

Water Source :
Entry Point(s) : DBP1-01

Date Collected : 11/01/2011 14:01 Conc. Units : µg/L
Date Received : 11/02/2011 Method : EPA 524.2
Date Analyzed : 11/03/2011 Analyst : LZ
Sample Cond. : Acceptable

Trihalomethanes	Result	Qualifier
Chloroform	7.6	
Bromodichloromethane	22.7	
Dibromochloromethane	30.6	
Bromoform	24.8	
Total Trihalomethanes ¹	85.7	

Screened Compounds	Result	Qualifier
Vinyl chloride ¹	<0.5	

Comments:

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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

UPPER LEON RIVER MWD
2250 HIGHWAY 2861
COMANCHE, TX 76442-5619

Date Reported : 11/15/2011
Report ID# : 20111115134459AB73816

Lab Sample ID# : AB73816	Water Source :	Date Collected : 11/01/2011 14:00	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : DBP1-01	Date Received : 11/02/2011	Method : 552.2 Rev 1.0
TCEQ ID#(s) : 1174170		Date Analyzed : 11/08/2011	Analyst : JL
		Extraction Date : 11/07/2011	Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	11.7	
Trichloroacetic acid	2.7	
Monobromoacetic acid	2.4	
Dibromoacetic acid	14.1	
Total HAA5 ¹	30.9	

Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	15.1	
Dalapon	<1.0	

Comments:

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