

# 2024 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*

<b>WTP @ Point-Of-Entry Analysis Type</b>	<b>Collection Date</b>	<b>Analysis Date</b>
All Metals EP001	02/14/2024	02/15-02/23/2024
Single Mineral - Cyanide EP001	02/14/2024	02/22/2024
All Minerals EP001	02/14/2024	02/15-02/21/2024
VOCs EP001	02/14/2024	02/20/2024
<b>Distribution System Analysis Type</b>	<b>Collection Date</b>	<b>Analysis Date</b>
Q1 Trihalomethanes (TTHM) DBP2-01	02/14/2024	02/16/2024
Q1 Haloacetic Acids (HAA5) DBP2-01	02/14/2024	02/28/2024
Q1 Trihalomethanes (TTHM) DBP2-02	02/14/2024	02/16/2024
Q1 Haloacetic Acids (HAA5) DBP2-02	02/14/2024	02/28/2024



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LABORATORY SERVICES SECTION, MC-1947  
 1100 W. 49th St., Austin, Tx. 78756 (512)458-7587

## \*ALL METALS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 02/29/2024  
 Report ID#: 20240229084440AG72935

Lab Sample ID# : AG72935      Water Source :      Date Collected : 02/14/2024 13:56  
 Sample Priority : NORMAL      Entry Point(s) : EP001      Date Received : 02/15/2024  
 TCEQ ID#(s) : 2415344

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Acidification	Completed		EPA 200.2	02/15/2024	TH
pH Check	Completed		EPA 200.2	02/16/2024	BF
Turbidity Screen	Completed		SM 2130B	02/16/2024	BF
Visible Particles	Completed			02/16/2024	BF
Total Hardness as CaCO3 by Calculation	<b>203</b>	mg/L	SM 2340B	02/20/2024	TH
Aluminum <sup>1</sup>	< 0.0200	mg/L	EPA 200.8	02/23/2024	KL
Antimony <sup>1</sup>	< 0.0010	mg/L	EPA 200.8	02/23/2024	KL
Arsenic <sup>1</sup>	<b>0.0023</b>	mg/L	EPA 200.8	02/23/2024	KL
Barium <sup>1</sup>	<b>0.123</b>	mg/L	EPA 200.8	02/23/2024	KL
Beryllium <sup>1</sup>	< 0.00080	mg/L	EPA 200.8	02/23/2024	KL
Cadmium <sup>1</sup>	< 0.0010	mg/L	EPA 200.8	02/23/2024	KL
Calcium	<b>46.0</b>	mg/L	EPA 200.7	02/20/2024	TH
Chromium <sup>1</sup>	< 0.0100	mg/L	EPA 200.8	02/23/2024	KL
Copper <sup>1</sup>	<b>0.0048</b>	mg/L	EPA 200.8	02/23/2024	KL
Iron <sup>1</sup>	< 0.010	mg/L	EPA 200.7	02/20/2024	TH
Lead <sup>1</sup>	< 0.0010	mg/L	EPA 200.8	02/23/2024	KL
Magnesium <sup>1</sup>	<b>21.5</b>	mg/L	EPA 200.7	02/20/2024	TH
Manganese <sup>1</sup>	<b>0.0139</b>	mg/L	EPA 200.8	02/23/2024	KL
Mercury <sup>1</sup>	< 0.00040	mg/L	EPA 245.1	02/20/2024	BF
Nickel <sup>1</sup>	<b>0.0014</b>	mg/L	EPA 200.8	02/23/2024	KL
Potassium <sup>1</sup>	<b>12.8</b>	mg/L	EPA 200.7	02/20/2024	TH
Selenium <sup>1</sup>	<b>0.0041</b>	mg/L	EPA 200.8	02/23/2024	KL
Silver <sup>1</sup>	< 0.0100	mg/L	EPA 200.8	02/23/2024	KL
Sodium <sup>1</sup>	<b>64.7</b>	mg/L	EPA 200.7	02/20/2024	TH
Thallium <sup>1</sup>	< 0.00040	mg/L	EPA 200.8	02/23/2024	KL
Zinc <sup>1</sup>	< 0.0050	mg/L	EPA 200.8	02/23/2024	KL

**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 (2016 Standard) requirements.

Authorized by Group Manager HNGO on 02/29/2024



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## \*SINGLE MINERAL Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 02/29/2024  
Report ID# : 20240229084440AG72926

Lab Sample ID# : AG72926  
Sample Priority : NORMAL  
TCEQ ID#(s) : 2427337

Water Source :  
Entry Point(s) : EP001

Date Collected : 02/14/2024 13:56  
Date Received : 02/15/2024

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Total Cyanide <sup>1</sup>	0.02	mg/L	10-204-00-1-X	02/22/2024 12:00	ME

### Comments:

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Authorized by Team Lead NPATEL on 02/27/2024



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## \*ALL MINERALS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 02/29/2024  
Report ID# : 20240229084440AG72910

Lab Sample ID# : AG72910      Water Source :      Date Collected : 02/14/2024 13:56  
Sample Priority : NORMAL      Entry Point(s) : EP001      Date Received : 02/15/2024  
TCEQ ID#(s) : 2417999

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Field pH Result	7.6	pH			
Conductance @ 25.0 °C <sup>1</sup>	<b>806</b>	µmho/cm	SM 2510 B	02/20/2024 15:11	DB
Phenolphthalein Alkalinity as CaCO <sub>3</sub>	<10	mg/L	SM 2320B	02/15/2024 15:21	NP
Total Alkalinity as CaCO <sub>3</sub>	<b>98</b>	mg/L	SM 2320B	02/15/2024 15:21	NP
Bicarbonate	<b>120</b>	mg/L	SM 2320B	02/15/2024 15:21	NP
Carbonate	<10	mg/L	SM 2320B	02/15/2024 15:21	NP
Fluoride <sup>1</sup>	<b>0.17</b>	mg/L	EPA 300.0	02/15/2024 15:49	NP
Chloride <sup>1</sup>	<b>140</b>	mg/L	EPA 300.0	02/21/2024 12:20	NP
Sulfate <sup>1</sup>	<b>77</b>	mg/L	EPA 300.0	02/21/2024 12:20	NP
Total Dissolved Solids <sup>1</sup>	<b>476</b>	mg/L	SM 2540C	02/15/2024 12:05	DB
Nitrate as N <sup>1</sup>	<b>0.07</b>	mg/L	EPA 353.2	02/15/2024 14:17	AD

**Comments:**

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## Volatile Organic Compounds by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/12/2024  
 Report ID# : 20240312085900AG73071

Lab Sample ID# : AG73071	Water Source :	Date Collected : 02/14/2024 13:55	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 02/15/2024	Method : EPA 524.2
TCEQ ID#(s) : 2400172		Date Analyzed : 02/20/2024	Analyst : AK
			Sample Cond. : Acceptable

Regulated Cmpds.[40 CFR 141.61(a)]	Result	Qualifier	Monitored Cmpds.[40 CFR 141.40(j)]	Result	Qualifier
Benzene <sup>1</sup>	<0.5		1,2,4-Trimethylbenzene	<1.0	
Carbon tetrachloride <sup>1</sup>	<0.5		1,2,3-Trichlorobenzene	<1.0	
Monochlorobenzene <sup>1</sup>	<0.5		n-Propylbenzene	<1.0	
o-Dichlorobenzene <sup>1</sup>	<0.5		n-Butylbenzene	<1.0	
para-Dichlorobenzene <sup>1</sup>	<0.5		Naphthalene	<1.0	
1,2-Dichloroethane <sup>1</sup>	<0.5		Hexachlorobutadiene	<1.0	
1,1-Dichloroethylene <sup>1</sup>	<0.5		1,3,5-Trimethylbenzene	<1.0	
cis-1,2-Dichloroethylene <sup>1</sup>	<0.5		4-Isopropyltoluene	<1.0	
trans-1,2-Dichloroethylene <sup>1</sup>	<0.5		Isopropylbenzene	<1.0	
1,2-Dichloropropane <sup>1</sup>	<0.5		t-Butylbenzene	<1.0	
Dichloromethane <sup>1</sup>	<0.5		s-Butylbenzene	<1.0	
Ethylbenzene <sup>1</sup>	<0.5		Trichlorofluoromethane	<2.0	
Styrene <sup>1</sup>	<0.5		Dichlorodifluoromethane	<2.0	
Tetrachloroethylene <sup>1</sup>	<0.5		Bromochloromethane	<1.0	
Toluene <sup>1</sup>	0.8	N	<b>Other Compounds</b>		
1,2,4-Trichlorobenzene <sup>1</sup>	<0.5		Acetone	<10	
1,1,1-Trichloroethane <sup>1</sup>	<0.5		Acrylonitrile	<10	
1,1,2-Trichloroethane <sup>1</sup>	<0.5		2-Butanone (MEK)	<10	
Trichloroethylene <sup>1</sup>	<0.5		Carbon disulfide	<1.0	
Vinyl chloride <sup>1</sup>	<0.5		Ethyl methacrylate	<1.0	
Xylenes (total) <sup>1</sup>	<0.5		2-Hexanone	<1.0	
<b>Monitored Cmpds.[40 CFR 141.40(e)]</b>			Iodomethane	<5.0	
Chloroform	2.5		Methyl methacrylate	<1.0	
Bromodichloromethane	7.2		4-Methyl-2-pentanone (MIBK)	<2.0	
Dibromochloromethane	11		Methyl-t-butyl ether (MTBE)	<0.5	
Bromoform	8.5		Tetrahydrofuran	<5.0	
Dibromomethane	<1.0		<b>Comments:</b>		
1,3-Dichlorobenzene	<1.0		N - See sample comments.		
1,1-Dichloropropene	<1.0		EPA Method 524.2: Presence of Toluene confirmed by		
1,1-Dichloroethane	<1.0		previous analyses per the Texas Drinking Water Watch		
1,1,2,2-Tetrachloroethane	<1.0		website. The test results on this report relate only to the		
1,3-Dichloropropane	<1.0		sample identified on this report. The test results for analytes		
Chloromethane	<2.0		noted(1) meet all TNI (2016 Standard) requirements.		
Bromomethane	<2.0		<b>Authorized by Team Lead CJONES on 03/07/2024</b>		
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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## Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/14/2024

Report ID# : 20240314084254AG72992

Lab Sample ID# : AG72992  
Sample Priority : NORMAL  
TCEQ ID#(s) : 2443446

Water Source :  
Entry Point(s) : DBP2-01

Date Collected : 02/14/2024 14:39  
Date Received : 02/15/2024  
Date Analyzed : 02/16/2024

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

Trihalomethanes	Result	Qualifier
Chloroform	3.5	
Bromodichloromethane	11.8	
Dibromochloromethane	18.8	
Bromoform	18.8	
Total Trihalomethanes <sup>1</sup>	52.9	

### Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(<sup>1</sup>) meet all TNI (2016 Standard) requirements.

Authorized by Team Lead AMIERTSCH on 03/13/2024



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### EPA 552.2 Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/14/2024

Report ID# : 20240314084254AG72992

Lab Sample ID# : AG72992  
Sample Priority : NORMAL  
TCEQ ID#(s) : 2443446

Water Source :  
Entry Point(s) : DBP2-01

Date Collected : 02/14/2024 14:39  
Date Received : 02/15/2024  
Date Analyzed : 02/28/2024  
Extraction Date : 02/23/2024

Conc. Units : µg/L  
Method : 552.2 Rev 1.0  
Analyst : TS  
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	<b>6.0</b>	
Trichloroacetic acid	<b>1.1</b>	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	<b>9.1</b>	
Total HAA5 <sup>1</sup>	<b>16.2</b>	

Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	<b>8.1</b>	
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 TNI (2016 Standard) requirements.

Authorized by Team Lead AMIERTSCH on 03/13/2024



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## Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/14/2024

Report ID# : 20240314084254AG72991

Lab Sample ID# : AG72991  
Sample Priority : NORMAL  
TCEQ ID#(s) : 2443447

Water Source :  
Entry Point(s) : DBP2-02

Date Collected : 02/14/2024 12:57  
Date Received : 02/15/2024  
Date Analyzed : 02/16/2024

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

Trihalomethanes	Result	Qualifier
Chloroform	3.4	
Bromodichloromethane	9.9	
Dibromochloromethane	14.4	
Bromoform	12.6	
Total Trihalomethanes <sup>1</sup>	40.3	

### Comments:

The test results on this report relate only to the sample identified on this report. The test results for analytes noted(<sup>1</sup>) meet all TNI (2016 Standard) requirements.

Authorized by Team Lead AMIERTSCH on 03/13/2024





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## EPA 552.2 Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/14/2024

Report ID#: 20240314084254AG72991

Lab Sample ID# : AG72991  
Sample Priority : NORMAL  
TCEQ ID#(s) : 2443447

Water Source :  
Entry Point(s) : DBP2-02

Date Collected : 02/14/2024 12:57  
Date Received : 02/15/2024  
Date Analyzed : 02/28/2024  
Extraction Date : 02/23/2024

Conc. Units : µg/L  
Method : 552.2 Rev 1.0  
Analyst : TS  
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	<b>6.4</b>	
Trichloroacetic acid	<b>1.4</b>	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	<b>9.9</b>	
Total HAA5 <sup>1</sup>	<b>17.7</b>	
Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	<b>9.1</b>	
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 TNI (2016 Standard) requirements.

Authorized by Team Lead AMIERTSCH on 03/13/2024