

2019 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

WTP @ Point-Of-Entry Analysis Type	Collection Date	Analysis Date
All Minerals	02/28/2019	03/01-03/08/2019
All Metals	02/28/2019	03/01-03/12/2019
Single Mineral - Cyanide	02/28/2019	03/07/2019
Carbamates by HPLC	02/28/2019	03/07/2019
EDB and DBCP	02/28/2019	03/08/2019
Herbicides	02/28/2019	03/07/2019
VOCs	08/07/2019	08/14/2019
Distribution System Analysis Type	Collection Date	Analysis Date
Trihalomethanes (THM)	02/28/2019	03/07/2019
Haloacetic Acids (HAA5)	02/28/2018	03/22/2019
Trihalomethanes (THM)	05/29/2019	06/10/2019
Haloacetic Acids (HAA5)	05/29/2019	06/06/2019
Trihalomethanes (THM)	08/07/2019	08/14/2019
Haloacetic Acids (HAA5)	08/07/2019	08/16/2019
Trihalomethanes (THM)	11/06/2019	11/18/2019
Haloacetic Acids (HAA5)	11/06/2019	11/13/2019



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*ALL MINERALS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/19/2019

Report ID#: 20190319093814AE56460

Lab Sample ID# : AE56460
Sample Priority : NORMAL
TCEQ ID#(s) : 1918577

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2019 10:53
Date Received : 03/01/2019

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Field pH Result	7.7	pH			
Diluted Conductance @ 25.0 °C ¹	675	µmho/cm	SM 2510 B	03/05/2019 09:34	NP
Phenolphthalein Alkalinity as CaCO ₃	<2	mg/L	SM 2320B	03/04/2019 12:23	CP
Total Alkalinity as CaCO ₃	120	mg/L	SM 2320B	03/04/2019 12:23	CP
Bicarbonate	146	mg/L	SM 2320B	03/04/2019 12:23	CP
Carbonate	<2	mg/L	SM 2320B	03/04/2019 12:23	CP
Fluoride ¹	0.12	mg/L	EPA 300.0	03/08/2019 17:53	LA
Chloride ¹	70	mg/L	EPA 300.0	03/08/2019 17:53	LA
Sulfate ¹	72	mg/L	EPA 300.0	03/08/2019 17:53	LA
Total Dissolved Solids ¹	354	mg/L	SM 2540C	03/04/2019 09:38	NP
Nitrate as N ¹	0.38	mg/L	EPA 353.2	03/01/2019 16:22	CP

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 Team Lead LARCHER on 03/15/2019



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*ALL METALS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/19/2019
Report ID#: 20190319093814AE56488

Lab Sample ID#: AE56488 Water Source : Date Collected : 02/28/2019 10:53
Sample Priority : NORMAL Entry Point(s) : EP001 Date Received : 03/01/2019
TCEQ ID#(s) : 1915974

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Acidification	Completed		EPA 200.2	03/01/2019	IU
pH Check	Completed		EPA 200.2	03/04/2019	IU
Turbidity Screen	Completed		SM 2130B	03/04/2019	IU
Visible Particles	Completed			03/04/2019	IU
Total Hardness as CaCO3 by Calculation	195	mg/L	SM 2340B	03/12/2019	BF
Aluminum ¹	0.0647	mg/L	EPA 200.8	03/06/2019	IU
Antimony ¹	< 0.0010	mg/L	EPA 200.8	03/06/2019	IU
Arsenic ¹	< 0.0020	mg/L	EPA 200.8	03/06/2019	IU
Barium ¹	0.0735	mg/L	EPA 200.8	03/06/2019	IU
Beryllium ¹	< 0.00080	mg/L	EPA 200.8	03/07/2019	IU
Cadmium ¹	< 0.0010	mg/L	EPA 200.8	03/06/2019	IU
Calcium	52.6	mg/L	EPA 200.7	03/12/2019	BF
Chromium ¹	< 0.0100	mg/L	EPA 200.8	03/06/2019	IU
Copper ¹	< 0.0020	mg/L	EPA 200.8	03/06/2019	IU
Iron ¹	< 0.010	mg/L	EPA 200.7	03/12/2019	BF
Lead ¹	< 0.0010	mg/L	EPA 200.8	03/06/2019	IU
Magnesium ¹	15.4	mg/L	EPA 200.7	03/12/2019	BF
Manganese ¹	0.0020	mg/L	EPA 200.8	03/06/2019	IU
Mercury ¹	< 0.00040	mg/L	EPA 245.1	03/07/2019	BF
Nickel ¹	0.0018	mg/L	EPA 200.8	03/06/2019	IU
Potassium ¹	8.50	mg/L	EPA 200.7	03/12/2019	BF
Selenium ¹	< 0.0030	mg/L	EPA 200.8	03/06/2019	IU
Silver ¹	< 0.0100	mg/L	EPA 200.8	03/06/2019	IU
Sodium ¹	48.8	mg/L	EPA 200.7	03/12/2019	BF
Thallium ¹	< 0.00040	mg/L	EPA 200.8	03/06/2019	IU
Zinc ¹	< 0.0050	mg/L	EPA 200.8	03/06/2019	IU

Comments:

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Authorized by Team Lead EBOYER on 03/15/2019



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*SINGLE MINERAL Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/12/2019

Report ID# : 20190312091152AE56469

Lab Sample ID# : AE56469
Sample Priority : NORMAL
TCEQ ID#(s) : 1928020

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2019 11:00
Date Received : 03/01/2019

Sample Cond. : Acceptable

Analyte	Result	Unit	Method	Date/Time Analyzed	Analyst
Total Cyanide ¹	0.14	mg/L	10-204-00-1-X	03/07/2019 12:02	MD

Comments:

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Authorized by Team Lead HNGO on 03/11/2019



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Carbamates by HPLC Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/12/2019

Report ID#: 20190312091152AE56689

Lab Sample ID# : AE56689
Sample Priority : NORMAL
TCEQ ID#(s) : 1919229

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2019 10:53
Date Received : 03/01/2019
Date Analyzed : 03/07/2019

Conc. Units : µg/L
Method : EPA Method 531.1
Analyst : LJ
Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Aldicarb ¹	<0.5	
Aldicarb sulfone ¹	<0.8	
Aldicarb Sulfoxide ¹	<0.5	
Carbofuran ¹	<0.9	
Oxamyl ¹	<2.0	
Monitored Compounds	Result	Qualifier
Baygon	<2.0	
Carbaryl	<2.0	
3-Hydroxycarbofuran	<2.0	
Methiocarb	<4.0	
Methomyl	<2.0	

Comments:

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Authorized by Team Lead HHAJPOUR on 03/08/2019



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EDB and DBCP Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/26/2019

Report ID# : 20190326100504AE56652

Lab Sample ID# : AE56652
Sample Priority : NORMAL
TCEQ ID#(s) : 1924531

Water Source :
Entry Point(s) : EP001

Date Collected : 02/28/2019 11:00
Date Received : 03/01/2019
Date Analyzed : 03/08/2019
Extraction Date : 03/07/2019

Conc. Units : µg/L
Method : 504.1 Rev. 1.1
Analyst : DP
Sample Cond. : Acceptable

<u>Regulated Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Ethylene dibromide ¹	<0.01	
Dibromochloropropane ¹	<0.02	
<u>Non Regulated Compounds</u>	<u>Result</u>	<u>Qualifier</u>
1,2,3-Trichloropropane	<0.05	

Comments:

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Authorized by Group Manager TDUNN on 03/22/2019



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Herbicides in Drinking Water Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 04/02/2019
Report ID# : 20190402101924AE56671

Lab Sample ID# : AE56671	Water Source :	Date Collected : 02/28/2019 10:53	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 03/01/2019	Method : 515.4 Rev. 1.0
TCEQ ID#(s) : 1921893		Date Analyzed : 03/07/2019	Analyst : TH
		Extraction Date : 03/05/2019	Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
2,4-D ¹	<0.1	
2,4,5-TP (Silvex) ¹	<0.2	
Pentachlorophenol ¹	<0.04	
Dalapon ¹	<1	
Dinoseb ¹	<0.2	
Picloram ¹	<0.1	
Non Regulated Compounds	Result	Qualifier
Acifluorfen	<1.0	
Bentazon	<2.0	
Chloramben	<1.0	
2,4-DB	<2.0	
Dicamba	<1.0	
3,5-Dichlorobenzoic acid	<1.0	
Dichlorprop	<2.0	
Quinclorac	<1.0	
2,4,5-T	<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 Chemist III BFLAMMANG on 04/01/2019



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Volatile Organic Compounds by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 09/10/2019
 Report ID# : 20190910104048AE77523

Lab Sample ID# : AE77523	Water Source :	Date Collected : 08/07/2019 11:07	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : EP001	Date Received : 08/08/2019	Method : EPA 524.2
TCEQ ID#(s) : 1905754		Date Analyzed : 08/14/2019	Analyst : TB
			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)	<10	
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	<5.0	
Chloroform	6.8		Methyl methacrylate	<1.0	
Bromodichloromethane	10		4-Methyl-2-pentanone (MIBK)	<2.0	
Dibromochloromethane	6.0		Methyl-t-butyl ether (MTBE)	<0.5	
Bromoform	2.8	G	Tetrahydrofuran	<5.0	
Dibromomethane	<1.0		Comments:		
1,3-Dichlorobenzene	<1.0		G - CCV/LFB recovery was below method acceptance limits.		
1,1-Dichloropropene	<1.0		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.		
1,1-Dichloroethane	<1.0		Authorized by Branch Manager CHOGBERG on 09/09/2019		
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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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 03/12/2019

Report ID# : 20190312091152AE56553

Lab Sample ID# : AE56553
Sample Priority : NORMAL
TCEQ ID#(s) : 1943934

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

Date Collected : 02/28/2019 12:12
Date Received : 03/01/2019
Date Analyzed : 03/07/2019

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

Trihalomethanes	Result	Qualifier
Chloroform	6.1	
Bromodichloromethane	10.7	
Dibromochloromethane	8.6	
Bromoform	3.3	
Total Trihalomethanes ¹	28.7	

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 Chemist III LZHONG on 03/08/2019



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 04/23/2019

Report ID# : 20190423141231AE56558

Lab Sample ID# : AE56558
Sample Priority : NORMAL
TCEQ ID#(s) : 1940441

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

Date Collected : 02/28/2019 11:37
Date Received : 03/01/2019
Date Analyzed : 03/22/2019
Extraction Date : 03/08/2019

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

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	11.3	
Trichloroacetic acid	1.8	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	7.5	
Total HAA5 ¹	20.6	
Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	12.8	
Dalapon	<1.0	

Comments:

EPA Method 552.2—Results may be biased low. Internal standard slightly above method acceptance limits. The test results on this report relate only to the sample identified on this report. The test results for analytes noted(*) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead AMIERTSCH on 04/22/2019



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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 06/13/2019

Report ID#: 20190613095641AE68412

Lab Sample ID#: AE68412
Sample Priority : NORMAL
TCEQ ID#(s) : 1944047

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

Date Collected : 05/29/2019 11:57
Date Received : 05/30/2019
Date Analyzed : 06/10/2019

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

Trihalomethanes	Result	Qualifier
Chloroform	13.2	
Bromodichloromethane	14.5	
Dibromochloromethane	6.9	
Bromoform	2.0	
Total Trihalomethanes ¹	36.6	

Comments:

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

Authorized by Chemist III LZHONG on 06/11/2019



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 06/13/2019

Report ID# : 20190613095641AE68414

Lab Sample ID# : AE68414
Sample Priority : NORMAL
TCEQ ID#(s) : 1943262

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

Date Collected : 05/29/2019 11:18
Date Received : 05/30/2019
Date Analyzed : 06/06/2019
Extraction Date : 06/04/2019

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

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	21.6	
Trichloroacetic acid	3.3	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	7.2	
Total HAA5 ¹	32.1	
Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	15.3	
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 (2009 Standard) requirements.

Authorized by Chemist III BFLAMMANG on 06/12/2019



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Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 08/20/2019
Report ID#: 20190820125423AE77472

Lab Sample ID#: AE77472
Sample Priority : NORMAL
TCEQ ID#(s) : 1944492

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

Date Collected : 08/07/2019 11:30
Date Received : 08/08/2019
Date Analyzed : 08/14/2019

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

Trihalomethanes	Result	Qualifier
Chloroform	9.4	
Bromodichloromethane	16.7	
Dibromochloromethane	11.5	
Bromoform	5.2	
Total Trihalomethanes ¹	42.8	

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 Team Lead CJONES on 08/16/2019



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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 08/20/2019

Report ID# : 20190820125423AE77475

Lab Sample ID# : AE77475
Sample Priority : NORMAL
TCEQ ID#(s) : 1943666

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

Date Collected : 08/07/2019 10:34
Date Received : 08/08/2019
Date Analyzed : 08/16/2019
Extraction Date : 08/14/2019

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

<u>Regulated Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Monochloroacetic acid	6.4	
Dichloroacetic acid	15.3	
Trichloroacetic acid	2.4	
Monobromoacetic acid	5.8	
Dibromoacetic acid	15.1	
Total HAA5 ¹	45.0	

<u>Monitored Compounds</u>	<u>Result</u>	<u>Qualifier</u>
Bromochloroacetic acid	17.4	
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(*) meet all TNI (2009 Standard) requirements.

Authorized by Team Lead AMIERTSCH on 08/19/2019



Texas Department of State Health Services

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

PO BOX 149347
AUSTIN, TEXAS 78714-9347
1-888-963-7111
www.dshs.state.tx.us

Trihalomethanes by GC/MS Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 11/26/2019

Report ID#: 20191126130218AE88669

Lab Sample ID# : AE88669
Sample Priority : NORMAL
TCEQ ID#(s) : 1944565

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

Date Collected : 11/06/2019 11:15
Date Received : 11/07/2019
Date Analyzed : 11/18/2019

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

Trihalomethanes	Result	Qualifier
Chloroform	3.3	
Bromodichloromethane	9.2	
Dibromochloromethane	13.0	
Bromoform	12.8	
Total Trihalomethanes ¹	38.3	

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 Team Lead CJONES on 11/22/2019



Texas Department of State Health Services

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PO BOX 149347
AUSTIN, TEXAS 78714-9347
1-888-963-7111
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Haloacetic Acids Analysis Report

Submitter Identification Number: 0470015

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

Date Reported : 11/19/2019
Report ID# : 20191119102358AE88671

Lab Sample ID# : AE88671	Water Source :	Date Collected : 11/06/2019 10:39	Conc. Units : µg/L
Sample Priority : NORMAL	Entry Point(s) : DBP2-01	Date Received : 11/07/2019	Method : 552.2 Rev 1.0
TCEQ ID#(s) : 1943779		Date Analyzed : 11/13/2019	Analyst : DP
		Extraction Date : 11/12/2019	Sample Cond. : Acceptable

Regulated Compounds	Result	Qualifier
Monochloroacetic acid	<2.0	
Dichloroacetic acid	6.4	
Trichloroacetic acid	1.0	
Monobromoacetic acid	<1.0	
Dibromoacetic acid	13.3	
Total HAA5 ¹	20.7	

Monitored Compounds	Result	Qualifier
Bromochloroacetic acid	11.6	
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(*) meet all TNI (2009 Standard) requirements.

Authorized by Chemist III BFLAMMANG on 11/19/2019