



WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679

Pg 1054
1740135
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Section I (PWS Information)										Section II (Completed by Laboratory)									
PWS Name: City of Rowlett PWS ID #: 0570056 PWS Contact Name: Patrick May PWS Contact Number: 972-463-3912					PWS Type: ☒ Community ☐ NTNC Population: ☐ <50,000 ☒ 50,001 to 100,000 ☐ >100,000					Lab Name:									
☒ Compliance ☐ Noncompliance					☐ Tap Copper Exceedance ☐ Tap Lead Exceedance					Laboratory Address:									
☒ Distribution System					# DS Samples Required: 40 # DS Samples Submitted: 20					Laboratory Contact Name:									
☐ Entry Point					# EP Samples Required: 12 # EP Samples Submitted: 6					Laboratory Phone:									
Inhibitor or stabilizer used: ☐ phosphate ☐ calcium carbonate ☐ silica										Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silica are used, then these parameters should also be tested depending on which is used.									
Source ID (e.g. DSD1, EP001)	Sample Location	Sample Collection Date (MMDDYY)	Sample Collection Time (HHMM)	pH (1925)	pH method	Temp (°C) (1996)	Temp Method	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Surface (1055)	TDS (1930)	Silica (1049)
DS01	4313 Misty Ln. #1	10/14/17	8:55	8.33	4500-H+b	26.00	2550												
DS01	4301 Oage Dr. #2	10/14/17	7:40	8.57	4500-H+b	26.05	2550												
DS01	3110 Elmhurst St. #3	10/14/17	8:00	8.29	4500-H+b	25.88	2550												
DS01	5201 Flamingo Dr. #4	10/14/17	8:38	8.34	4500-H+b	25.94	2550												
DS01	7118 Allsea Ln. #5	10/14/17	9:12	8.23	4500-H+b	26.27	2550												

I acknowledge that the information on this form is true and correct and as selected for sampling following TCEQ instructions including but not limited to the measurement of pH and temperature according to approved methods immediately upon collection (within 15 minutes).

Name: Patrick May Signature: [Signature] Date: 9:22 10/14/17

Relinquished By (Name, Signature, Date, Time): [Signature] 10/14/17 9:22

Received By (Name, Signature, Date, Time): [Signature] 10/17/17 13:48

Containers: ☐ 2 L plastic bottles ☒ 1 L preserved upon receipt

Conditions Upon Receipt: ☒ Ice ☐ Ambient

Temp Upon Receipt: 1.7

Corrected Temp Upon Receipt: 2.2

Comments: ID # 1740135

ENTERED

172729

City of Rowlett 4310 Industrial Rowlett, TEXAS 75088	Project: Lead and Copper Rule Project Number: Lead and Copper Rule Project Manager: Patrick May	Reported: 2017-10-30 11:27
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Notes and Definitions

AccFD	Field Data, not performed by laboratory, presented per client request.
AccEx	Method not under current NELAP Scope of Accreditation, NELAP Quality System utilized in generation of this data.
DET	Analyte DETECTED
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
SRL	Sample Reporting Limit
Note:	"Conductance at 25°C" is also known as Specific Conductance



WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679

Pg 2 of 4

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Section I (PWS Information)										Section II (Completed by Laboratory)										
PWS Name: City of Rowlett					PWS Type: ☒ Community ☐ NTNC					Lab Name:										
PWS ID #: 0570056					Population: ☐ <50,000 ☒ 50,001 to 100,000 ☐ >100,000					Lab Address:										
PWS Contact Name: Patrick May					PWS Contact Number: 972-463-3912					Laboratory Contact Name:										
☒ Compliance ☐ Noncompliance					☐ Tap Copper Exceedance ☐ Tap Lead Exceedance					Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silicate are used, then these parameters should also be tested depending on which is used.										
☒ Distribution System					# DS Samples Required: 40 # DS Samples Submitted: 20					Lab Phone:										
☐ Entry Point					# EP Samples Required: 12 # EP Samples Submitted: 6															
Inhibitor or stabilizer used: ☐ phosphate ☐ calcium carbonate ☐ silica																				
Source ID (e.g. DS01, EP001)	Sample Location	Sample Collection Date (MM/DD/YY)	Sample Collection Time (HH:MM)	pH (1925)	pH method	Temp (°C) (1996)	Temp Method	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-phosphate (1044)	Silica (1049)
DS01	7410 Silver Lake Dr. #6	10/6/17	10:24	8.42	YS04-H+6	27.27	YS0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS01	8118 Hartford Dr. #7	10/6/17	09:25	8.36	YS00-H+6	26.00	YS0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS01	9600 Mickelson Dr. #8	10/6/17	09:52	8.43	YS00-H+6	26.38	YS0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS01	10401 Huffines Dr. #9	10/6/17	10:12	8.40	YS00-H+6	26.72	YS0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS01	7206 North Point Dr. #10	10/6/17	10:46	8.39	YS00-H+6	27.05	YS0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
I acknowledge that the information on this form is true and correct and sites selected for sampling following TCEQ instructions including but not limited to the measurement of pH and temperature according to approved methods immediately upon collection (within 15 minutes)																				
Name: Patrick May										Signature: [Signature] Date: 10/6/17										
Required By: (Name, Signature) Patrick May										Date: 10/6/17 Time: 12:39										
Received By: (Name, Signature) Kelly Bell										Date: 10/6/17 Time: 1:48										
(For TCEQ use only) ☐ Disapproved ☐ Accepted										Comments: [Signature]										

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WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679 1140130

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Section I (PWS Information)										Section II (Completed by Laboratory)																					
PWS Name: City of Rowlett PWS ID #: 05700956 PWS Contact Name: Patrick May PWS Contact Number: 972-463-3912					PWS Type: ☒ Community ☐ NTNC Population: ☐ <50,000 ☒ 50,001 to 100,000 ☐ >100,000					Lab Name: Laboratory Address: Laboratory Contact Name:																					
☒ Compliance ☐ Noncompliance ☐ Distribution System ☒ Entry Point					☐ Tap Copper Exceedance ☐ Tap Lead Exceedance # DS Samples Required: 10 # DS Samples Submitted: 20 # EP Samples Required: 2 # EP Samples Submitted: 6					Lab Phone: Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silicate are used, then these parameters should also be tested depending on which is used.																					
Inhibitor or stabilizer used: ☐ phosphate ☐ calcium carbonate ☐ silica																															
Source ID (e.g. DSD1, EP001)	Sample Location	Sample Collection Date (MM/DD/YY)	Sample Collection Time (HH:MM)	pH (1925) method	Temp (°C) (1996)	Temp Method	Lab Sample ID																								
EP001	9606 Merritt Road	10/04/17	10:36	7.93	50.0	4.7	2550	Alkalinity (1927)	✓	Calcium (1919)	✓	Chloride (1017)	✓	Conductivity (1064)	✓	Hardness (1915)	✓	Iron (1028)	✓	Manganese (1032)	✓	Sodium (1052)	✓	Sulfate (1055)	✓	TDS (1930)	✓	O-phosphate (1044)	✓	Silica (1049)	✓
EP002	7716 Rowlett Road	10/04/17	12:24	7.98	45.0	4.00	2680	Alkalinity (1927)	✓	Calcium (1919)	✓	Chloride (1017)	✓	Conductivity (1064)	✓	Hardness (1915)	✓	Iron (1028)	✓	Manganese (1032)	✓	Sodium (1052)	✓	Sulfate (1055)	✓	TDS (1930)	✓	O-phosphate (1044)	✓	Silica (1049)	✓
EP003	10217 Liberty Grove Road	10/04/17	10:11	7.77	45.0	4.33	2550	Alkalinity (1927)	✓	Calcium (1919)	✓	Chloride (1017)	✓	Conductivity (1064)	✓	Hardness (1915)	✓	Iron (1028)	✓	Manganese (1032)	✓	Sodium (1052)	✓	Sulfate (1055)	✓	TDS (1930)	✓	O-phosphate (1044)	✓	Silica (1049)	✓
								Alkalinity (1927)	✓	Calcium (1919)	✓	Chloride (1017)	✓	Conductivity (1064)	✓	Hardness (1915)	✓	Iron (1028)	✓	Manganese (1032)	✓	Sodium (1052)	✓	Sulfate (1055)	✓	TDS (1930)	✓	O-phosphate (1044)	✓	Silica (1049)	✓
								Alkalinity (1927)	✓	Calcium (1919)	✓	Chloride (1017)	✓	Conductivity (1064)	✓	Hardness (1915)	✓	Iron (1028)	✓	Manganese (1032)	✓	Sodium (1052)	✓	Sulfate (1055)	✓	TDS (1930)	✓	O-phosphate (1044)	✓	Silica (1049)	✓
								Alkalinity (1927)	✓	Calcium (1919)	✓	Chloride (1017)	✓	Conductivity (1064)	✓	Hardness (1915)	✓	Iron (1028)	✓	Manganese (1032)	✓	Sodium (1052)	✓	Sulfate (1055)	✓	TDS (1930)	✓	O-phosphate (1044)	✓	Silica (1049)	✓
I acknowledge that the information on this form is true and correct and sites selected for sampling following TCEQ instructions including but not limited to the measurement of pH and temperature according to approved methods immediately upon collection (within 15 minutes)								Containers ☐ 2 L plastic bottles ☐ 1 L preserved upon receipt																							
Name Ricky Bell Signature <i>[Signature]</i> Date 10/04/17								Conditions Upon Receipt ☐ Ice ☐ Ambient Temp Upon Receipt: 50.0 Corrected Temp Upon Receipt:																							
Revised By (Name, Signature) <i>[Signature]</i> Date 10/04/17								Received By (Name, Signature) <i>[Signature]</i> Date 10/04/17																							

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID : 1740135-01
Sample Name : 4313 Misty Ln
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 08:55
Sampled Ended : 2017-10-04 08:55
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-02
Sample Name : 4301 Osage Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 07:40
Sampled Ended : 2017-10-04 07:40
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-03
Sample Name : 3110 Elmhurst St.
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 08:00
Sampled Ended : 2017-10-04 08:00
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-04
Sample Name : 5201 Flamingo Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 08:38
Sampled Ended : 2017-10-04 08:38
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-05
Sample Name : 7118 Alissa Ln.
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 09:12
Sampled Ended : 2017-10-04 09:12
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-06
Sample Name : 7410 Silver Lake Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 10:24
Sampled Ended : 2017-10-04 10:24
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

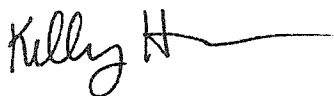
Laboratory ID : 1740135-07
Sample Name : 8118 Hartford Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 09:25
Sampled Ended : 2017-10-04 09:25
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-08
Sample Name : 9600 Mickelson Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 09:52
Sampled Ended : 2017-10-04 09:52
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-09
Sample Name : 10401 Huffines Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 10:12
Sampled Ended : 2017-10-04 10:12
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

Laboratory ID : 1740135-10
Sample Name : 7206 North Point Dr
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 10:46
Sampled Ended : 2017-10-04 10:46
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Patrick May
Sampler B :

North Texas Municipal Water District



Kelly Harden, Laboratory Operations Manager



The results in this report apply to the samples analyzed in accordance with the chain of custody document.

North Texas Municipal Water District Laboratory
201 E Brown St.
Wylie, TX 75098
PMR-4

01/26/2012

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City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

Laboratory ID : 1740135-11
Sample Name : 9606 Merritt Road
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 10:36
Sampled Ended : 2017-10-04 10:36
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Ricky Bell
Sampler B :

Laboratory ID : 1740135-12
Sample Name : 7716 Rowlett Road
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 12:24
Sampled Ended : 2017-10-04 12:24
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Ricky Bell
Sampler B :

Laboratory ID : 1740135-13
Sample Name : 10217 Liberty Grove Road
Sample Alias :
Sample Type : Grab
Sampled Begin : 2017-10-04 10:11
Sampled Ended : 2017-10-04 10:11
Matrix : Aqueous; (Water)
Outfall : Special
Sampler A : Ricky Bell
Sampler B :

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

4313 Misty Ln (1740135-01 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.38				pH/SU	1	1727729	171004 0855	171004 0855	SM 4500-H-B	AccFD
Temperature	pm	26.0				°C	1	"	171004 0855	171004 0855	SM 2550B	AccFD

Total Metals by EPA 200.8
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.200	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	6.86	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgb	723	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	68.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO ₃	hfs	167	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	133	10.0	5.00	10.0	mg/L	1	1728504	2017-10-12	2017-10-12	SM 2340C	
Total Dissolved Solids	krb	428	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgb	86.3	5.00	0.500	1.00	mg/L	5	1728308	2017-10-10	2017-10-10	EPA 300.0	
Sulfate	mgb	121	5.00	0.500	1.00	mg/L	5	"	2017-10-10	2017-10-10	"	

4313 Misty Ln (1740135-01RE1 - Outfall: Special)

Total Metals by EPA 200.8
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	78.5	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

4301 Osage Dr (1740135-02 - Outfall: Special)

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

4301 Osage Dr (1740135-02 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.57				pH/SU	1	1727729	171004 0740	171004 0740	SM 4500-H-B	AccFD
Temperature	pm	26.0				°C	1	"	171004 0740	171004 0740	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.209	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	9.59	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	722	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	69.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	121	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	135	10.0	5.00	10.0	mg/L	1	1728504	2017-10-12	2017-10-12	SM 2340C	
Total Dissolved Solids	krq	436	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mge	89.1	5.00	0.500	1.00	mg/L	5	1728308	2017-10-10	2017-10-10	EPA 300.0	
Sulfate	mge	126	5.00	0.500	1.00	mg/L	5	"	2017-10-10	2017-10-10	"	

4301 Osage Dr (1740135-02RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	84.0	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

3110 Elmhurst St. (1740135-03 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.29				pH/SU	1	1727729	171004 0800	171004 0800	SM 4500-H-B	AccFD

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

3110 Elmhurst St. (1740135-03 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Temperature	pm	25.9				°C	1	1727729	171004 0800	171004 0800	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.211	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	10.8	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	720	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	73.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	139	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	143	10.0	5.00	10.0	mg/L	1	1728504	2017-10-12	2017-10-12	SM 2340C	
Total Dissolved Solids	krg	434	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	78.7	10.0	0.500	1.00	mg/L	10	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	115	10.0	0.500	1.00	mg/L	10	"	2017-10-11	2017-10-11	"	

3110 Elmhurst St. (1740135-03RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	81.5	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

5201 Flamingo Dr (1740135-04 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.34				pH/SU	1	1727729	171004 0838	171004 0838	SM 4500-H-B	AccFD
Temperature	pm	25.9				°C	1	"	171004 0838	171004 0838	SM 2550B	AccFD

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

5201 Flamingo Dr (1740135-04 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.219	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	8.89	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	719	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	70.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	125	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	138	10.0	5.00	10.0	mg/L	1	1728504	2017-10-12	2017-10-12	SM 2340C	
Total Dissolved Solids	krq	434	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	86.3	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	117	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

5201 Flamingo Dr (1740135-04RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	80.8	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

7118 Alissa Ln. (1740135-05 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.23				pH/SU	1	1727729	171004 0912	171004 0912	SM 4500-H-B	AccFD
Temperature	pm	26.3				°C	1	"	171004 0912	171004 0912	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.217	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

7118 Alissa Ln. (1740135-05 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Manganese	lmg	6.09	1.00	0.500	1.00	ug/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	719	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	68.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	126	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	141	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	436	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	87.6	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	122	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

7118 Alissa Ln. (1740135-05RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	79.2	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

7410 Silver Lake Dr (1740135-06 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.42				pH/SU	1	1727729	171004 1024	171004 1024	SM 4500-H-B	AccFD
Temperature	pm	27.3				°C	1	"	171004 1024	171004 1024	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.216	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	5.47	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

7410 Silver Lake Dr (1740135-06 - Outfall: Special)

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	719	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	68.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO ₃	hfs	145	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	137	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	434	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	88.7	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	124	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

7410 Silver Lake Dr (1740135-06RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	79.1	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

8118 Hartford Dr (1740135-07 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.36				pH/SU	1	1727729	171004 0925	171004 0925	SM 4500-H-B	AccFD
Temperature	pm	26.0				°C	1	"	171004 0925	171004 0925	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.208	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	6.70	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	722	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

8118 Hartford Dr (1740135-07 - Outfall: Special)

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	68.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	154	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	139	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	426	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	90.6	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	131	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

8118 Hartford Dr (1740135-07RE1 - Outfall: Special)

Total Metals by EPA 200.8
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	79.9	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

9600 Mickelson Dr (1740135-08 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.43				pH/SU	1	1727729	171004 0952	171004 0952	SM 4500-H-B	AccFD
Temperature	pm	26.4				°C	1	"	171004 0952	171004 0952	SM 2550B	AccFD

Total Metals by EPA 200.8
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.203	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	6.30	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	718	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	69.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

9600 Mickelson Dr (1740135-08 - Outfall: Special)

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Calcium as CaCO ₃	hfs	162	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	138	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	430	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mge	88.2	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mge	126	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

9600 Mickelson Dr (1740135-08RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	77.2	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

10401 Huffines Dr (1740135-09 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.40				pH/SU	1	1727729	171004 1012	171004 1012	SM 4500-H-B	AccFD
Temperature	pm	26.7				°C	1	"	171004 1012	171004 1012	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	ND	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	5.00	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	714	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	68.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO ₃	hfs	141	5.00	5.00	5.00	mg/L	1	1729217	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

10401 Huffines Dr (1740135-09 - Outfall: Special)

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Hardness	lmg	134	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	432	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	86.4	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	120	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

10401 Huffines Dr (1740135-09RE1 - Outfall: Special)

Total Metals by EPA 200.8
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	75.8	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

7206 North Point Dr (1740135-10 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	pm	8.39				pH/SU	1	1727729	171004 1046	171004 1046	SM 4500-H-B	AccFD
Temperature	pm	27.0				°C	1	"	171004 1046	171004 1046	SM 2550B	AccFD

Total Metals by EPA 200.8
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.203	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	7.56	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	717	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	68.0	20.0	10.0	20.0	mg/L	1	1728414	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	135	5.00	5.00	5.00	mg/L	1	1729306	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	144	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

7206 North Point Dr (1740135-10 - Outfall: Special)

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	krq	430	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	85.1	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	125	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

7206 North Point Dr (1740135-10RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	77.7	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

9606 Merritt Road (1740135-11 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	rb	7.93				pH/SU	1	1727729	171004 1036	171004 1036	SM 4500-H-B	AccFD
Temperature	rb	24.8				°C	1	"	171004 1036	171004 1036	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.225	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	8.98	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	712	2.00	1.00	2.00	uS/cm	1	1729024	2017-10-18	2017-10-18	SM 2510B	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	69.0	20.0	10.0	20.0	mg/L	1	1728415	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	121	5.00	5.00	5.00	mg/L	1	1729306	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	141	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	432	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

9606 Merritt Road (1740135-11 - Outfall: Special)

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	90.4	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	129	5.00	0.500	1.00	mg/L	5	"	2017-10-11	2017-10-11	"	

9606 Merritt Road (1740135-11RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	81.1	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

7716 Rowlett Road (1740135-12 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	rb	7.92				pH/SU	1	1727729	171004 1224	171004 1224	SM 4500-H-B	AccFD
Temperature	rb	26.0				°C	1	"	171004 1224	171004 1224	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.225	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	14.4	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgb	705	2.00	1.00	2.00	uS/cm	1	1729712	2017-10-24	2017-10-24	SM 2510B	

Conventional Chemistry Parameters by Standard Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	71.0	20.0	10.0	20.0	mg/L	1	1728415	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	130	5.00	5.00	5.00	mg/L	1	1729306	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	139	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krb	434	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	81.2	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	

North Texas Municipal Water District

City of Rowlett	Project: Lead and Copper Rule	
4310 Industrial	Project Number: Lead and Copper Rule	Reported:
Rowlett, TEXAS 75088	Project Manager: Patrick May	2017-10-30 11:27

7716 Rowlett Road (1740135-12 - Outfall: Special)

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sulfate	mgc	114	5.00	0.500	1.00	mg/L	5	1728404	2017-10-11	2017-10-11	EPA 300.0	

7716 Rowlett Road (1740135-12RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	79.4	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

10217 Liberty Grove Road (1740135-13 - Outfall: Special)

Conventional Chemistry Parameters by Field Personnel

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
pH	rb	7.77				pH/SU	1	1727729	171004 1011	171004 1011	SM 4500-H-B	AccFD
Temperature	rb	24.3				°C	1	"	171004 1011	171004 1011	SM 2550B	AccFD

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Iron	lmg	0.221	0.200	0.100	0.200	mg/L	1	1727902	2017-10-09	2017-10-13	EPA 200.8	AccEx
Manganese	lmg	7.37	1.00	0.500	1.00	ug/L	1	"	2017-10-09	2017-10-13	"	

Conventional Chemistry Parameters by EPA Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Conductance at 25°C	bgk	711	2.00	1.00	2.00	uS/cm	1	1729712	2017-10-24	2017-10-24	SM 2510B	

Conventional Chemistry Parameters by Standard Methods

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	nv	70.0	20.0	10.0	20.0	mg/L	1	1728415	2017-10-11	2017-10-11	SM 2320B	AccEx
Calcium as CaCO3	hfs	135	5.00	5.00	5.00	mg/L	1	1729306	2017-10-20	2017-10-20	SM 3500-Ca-B	AccEx
Total Hardness	lmg	139	10.0	5.00	10.0	mg/L	1	1728623	2017-10-13	2017-10-13	SM 2340C	
Total Dissolved Solids	krq	438	20.0	5.00	10.0	mg/L	2	1727828	2017-10-05	2017-10-09	SM 2540C	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	82.2	10.0	0.500	1.00	mg/L	10	1728404	2017-10-11	2017-10-11	EPA 300.0	
Sulfate	mgc	121	10.0	0.500	1.00	mg/L	10	"	2017-10-11	2017-10-11	"	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

10217 Liberty Grove Road (1740135-13RE1 - Outfall: Special)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Sodium	lmg	81.2	20.0	0.100	0.200	mg/L	100	1727902	2017-10-09	2017-10-13	EPA 200.8	

North Texas Municipal Water District

City of Rowlett 4310 Industrial Rowlett, TEXAS 75088	Project: Lead and Copper Rule Project Number: Lead and Copper Rule Project Manager: Patrick May	Reported: 2017-10-30 11:27
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Total Metals by EPA 200.8 - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1727902 - [200.8 Digestion] Digested down to 10mL at 95°C										
Blank (1727902-BLK1)				Prepared: 2017-10-09 Analyzed: 2017-10-13						
Sodium	ND	0.200	mg/L							
Manganese	ND	1.00	ug/L							
Iron	ND	0.200	mg/L							
LCS (1727902-BS1)				Prepared: 2017-10-09 Analyzed: 2017-10-13						
Sodium	1.00	0.200	mg/L	1.00		100	85-115			
Manganese	48.9	1.00	ug/L	50.0		97.7	85-115			
Iron	0.943	0.200	mg/L	1.00		94.3	85-115			
LCS Dup (1727902-BSD1)				Prepared: 2017-10-09 Analyzed: 2017-10-13						
Sodium	0.991	0.200	mg/L	1.00		99.1	85-115	1.03	20	
Manganese	49.0	1.00	ug/L	50.0		97.9	85-115	0.244	20	
Iron	0.939	0.200	mg/L	1.00		93.9	85-115	0.415	20	
Matrix Spike (1727902-MS1)				Source: 1740129-25		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Manganese	59.2	1.00	ug/L	50.0	7.27	104	70-130			
Iron	1.20	0.200	mg/L	1.00	0.211	99.2	70-130			
Matrix Spike (1727902-MS2)				Source: 1740135-05		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Iron	1.16	0.200	mg/L	1.00	0.217	94.5	70-130			
Manganese	55.5	1.00	ug/L	50.0	6.09	98.9	70-130			
Matrix Spike (1727902-MS3)				Source: 1740129-25RE1		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Sodium	179	20.0	mg/L	100	84.4	94.3	70-130			
Matrix Spike (1727902-MS4)				Source: 1740135-05RE1		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Sodium	172	20.0	mg/L	100	79.2	92.6	70-130			
Matrix Spike Dup (1727902-MSD1)				Source: 1740129-25		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Iron	1.19	0.200	mg/L	1.00	0.211	98.3	70-130	0.678	20	
Manganese	58.8	1.00	ug/L	50.0	7.27	103	70-130	0.668	20	
Matrix Spike Dup (1727902-MSD2)				Source: 1740135-05		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Manganese	57.7	1.00	ug/L	50.0	6.09	103	70-130	3.83	20	
Iron	1.21	0.200	mg/L	1.00	0.217	99.7	70-130	4.39	20	
Matrix Spike Dup (1727902-MSD3)				Source: 1740129-25RE1		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Sodium	177	20.0	mg/L	100	84.4	92.8	70-130	0.862	20	
Matrix Spike Dup (1727902-MSD4)				Source: 1740135-05RE1		Prepared: 2017-10-09 Analyzed: 2017-10-13				
Sodium	173	20.0	mg/L	100	79.2	93.7	70-130	0.587	20	

Conventional Chemistry Parameters by EPA Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

Conventional Chemistry Parameters by EPA Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1729024 - [Water Quality Preparation] Water Quality Preparation										
Blank (1729024-BLK1)				Prepared & Analyzed: 2017-10-18						
Conductance at 25°C	ND	2.00	uS/cm							
Duplicate (1729024-DUP1)				Source: 1740129-22		Prepared & Analyzed: 2017-10-18				
Conductance at 25°C	726	2.00	uS/cm		723			0.408	10	
Duplicate (1729024-DUP2)				Source: 1740135-02		Prepared & Analyzed: 2017-10-18				
Conductance at 25°C	720	2.00	uS/cm		722			0.273	10	
Batch 1729712 - [Water Quality Preparation] Water Quality Preparation										
Blank (1729712-BLK1)				Prepared & Analyzed: 2017-10-24						
Conductance at 25°C	ND	2.00	uS/cm							
Duplicate (1729712-DUP1)				Source: 1740135-12		Prepared & Analyzed: 2017-10-24				
Conductance at 25°C	706	2.00	uS/cm		705			0.139	10	
Duplicate (1729712-DUP2)				Source: 1741099-01		Prepared & Analyzed: 2017-10-24				
Conductance at 25°C	625	2.00	uS/cm		624			0.158	10	

Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1727828 - [Solids Preparation]										
Blank (1727828-BLK1)				Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	ND	10.0	mg/L							
Blank (1727828-BLK2)				Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	ND	10.0	mg/L							
Blank (1727828-BLK3)				Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	ND	10.0	mg/L							
Blank (1727828-BLK4)				Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	ND	10.0	mg/L							
Blank (1727828-BLK5)				Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	ND	10.0	mg/L							
LCS (1727828-BS1)				Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	250	10.0	mg/L	240		104	80-120			
Duplicate (1727828-DUP1)				Source: 1740129-01		Prepared: 2017-10-05 Analyzed: 2017-10-09				
Total Dissolved Solids	422	20.0	mg/L		422			0.00	10	
Duplicate (1727828-DUP2)				Source: 1740129-11		Prepared: 2017-10-05 Analyzed: 2017-10-09				
Total Dissolved Solids	428	20.0	mg/L		422			1.41	10	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
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Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1727828 - [Solids Preparation]

Duplicate (1727828-DUP3)		Source: 1740129-21		Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	432	20.0	mg/L		434			0.462	10	
Duplicate (1727828-DUP4)		Source: 1740135-01		Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	432	20.0	mg/L		428			0.930	10	
Duplicate (1727828-DUP5)		Source: 1740135-11		Prepared: 2017-10-05 Analyzed: 2017-10-09						
Total Dissolved Solids	422	20.0	mg/L		432			2.34	10	

Batch 1728414 - [Water Quality Preparation] Water Quality Preparation

Blank (1728414-BLK1)		Prepared & Analyzed: 2017-10-11								
Total Alkalinity	ND	20.0	mg/L							
LCS (1728414-BS1)		Prepared & Analyzed: 2017-10-11								
Total Alkalinity	51.0	20.0	mg/L	50.0		102	90-110			
LCS Dup (1728414-BSD1)		Prepared & Analyzed: 2017-10-11								
Total Alkalinity	50.5	20.0	mg/L	50.0		101	90-110	0.985	10	
Matrix Spike (1728414-MS1)		Source: 1740129-21		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	121	20.0	mg/L	50.0	69.0	104	75-125			
Matrix Spike (1728414-MS2)		Source: 1740135-01		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	118	20.0	mg/L	50.0	68.0	100	75-125			
Matrix Spike Dup (1728414-MSD1)		Source: 1740129-21		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	122	20.0	mg/L	50.0	69.0	106	75-125	0.823	10	
Matrix Spike Dup (1728414-MSD2)		Source: 1740135-01		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	117	20.0	mg/L	50.0	68.0	98.0	75-125	0.851	10	

Batch 1728415 - [Water Quality Preparation] Water Quality Preparation

Blank (1728415-BLK1)		Prepared & Analyzed: 2017-10-11								
Total Alkalinity	ND	20.0	mg/L							
LCS (1728415-BS1)		Prepared & Analyzed: 2017-10-11								
Total Alkalinity	50.0	20.0	mg/L	50.0		100	90-110			
LCS Dup (1728415-BSD1)		Prepared & Analyzed: 2017-10-11								
Total Alkalinity	51.0	20.0	mg/L	50.0		102	90-110	1.98	10	
Matrix Spike (1728415-MS1)		Source: 1740135-11		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	121	20.0	mg/L	50.0	69.0	104	75-125			
Matrix Spike (1728415-MS2)		Source: 1740195-02		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	73.0	20.0	mg/L	50.0	25.0	96.0	75-125			
Matrix Spike Dup (1728415-MSD1)		Source: 1740135-11		Prepared & Analyzed: 2017-10-11						
Total Alkalinity	120	20.0	mg/L	50.0	69.0	102	75-125	0.830	10	
Matrix Spike Dup (1728415-MSD2)		Source: 1740195-02		Prepared & Analyzed: 2017-10-11						

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: Lead and Copper Rule
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1728415 - [Water Quality Preparation] Water Quality Preparation										
Matrix Spike Dup (1728415-MSD2)		Source: 1740195-02			Prepared & Analyzed: 2017-10-11					
Total Alkalinity	74.0	20.0	mg/L	50.0	25.0	98.0	75-125	1.36	10	
Batch 1728504 - [Water Quality Preparation] Water Quality Preparation										
Blank (1728504-BLK1)		Prepared & Analyzed: 2017-10-12								
Total Hardness	ND	10.0	mg/L							
LCS (1728504-BS1)		Prepared & Analyzed: 2017-10-12								
Total Hardness	52.0	10.0	mg/L	50.0		104	90-110			
LCS Dup (1728504-BSD1)		Prepared & Analyzed: 2017-10-12								
Total Hardness	52.4	10.0	mg/L	50.0		105	90-110	0.766	10	
Matrix Spike (1728504-MS1)		Source: 1739148-21			Prepared & Analyzed: 2017-10-12					
Total Hardness	192	10.0	mg/L	50.0	142	101	90-110			
Matrix Spike (1728504-MS2)		Source: 1740129-25			Prepared & Analyzed: 2017-10-12					
Total Hardness	185	10.0	mg/L	50.0	135	100	90-110			
Matrix Spike Dup (1728504-MSD1)		Source: 1739148-21			Prepared & Analyzed: 2017-10-12					
Total Hardness	192	10.0	mg/L	50.0	142	101	90-110	0.00	10	
Matrix Spike Dup (1728504-MSD2)		Source: 1740129-25			Prepared & Analyzed: 2017-10-12					
Total Hardness	185	10.0	mg/L	50.0	135	101	90-110	0.108	10	
Batch 1728623 - [Water Quality Preparation] Water Quality Preparation										
Blank (1728623-BLK1)		Prepared & Analyzed: 2017-10-13								
Total Hardness	ND	10.0	mg/L							
LCS (1728623-BS1)		Prepared & Analyzed: 2017-10-13								
Total Hardness	51.8	10.0	mg/L	50.0		104	90-110			
LCS Dup (1728623-BSD1)		Prepared & Analyzed: 2017-10-13								
Total Hardness	51.4	10.0	mg/L	50.0		103	90-110	0.775	10	
Matrix Spike (1728623-MS1)		Source: 1740002-43			Prepared & Analyzed: 2017-10-13					
Total Hardness	273	10.0	mg/L	50.0	223	98.8	90-110			
Matrix Spike (1728623-MS2)		Source: 1740135-10			Prepared & Analyzed: 2017-10-13					
Total Hardness	191	10.0	mg/L	50.0	144	93.6	90-110			
Matrix Spike Dup (1728623-MSD1)		Source: 1740002-43			Prepared & Analyzed: 2017-10-13					
Total Hardness	273	10.0	mg/L	50.0	223	100	90-110	0.220	10	
Matrix Spike Dup (1728623-MSD2)		Source: 1740135-10			Prepared & Analyzed: 2017-10-13					
Total Hardness	192	10.0	mg/L	50.0	144	95.2	90-110	0.418	10	
Batch 1729217 - [Water Quality Preparation] Water Quality Preparation										
Blank (1729217-BLK1)		Prepared & Analyzed: 2017-10-20								

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1729217 - [Water Quality Preparation] Water Quality Preparation

Blank (1729217-BLK1)				Prepared & Analyzed: 2017-10-20						
Calcium as CaCO3	ND	2.50	mg/L							
LCS (1729217-BS1)				Prepared & Analyzed: 2017-10-20						
Calcium as CaCO3	51.6	5.00	mg/L	50.0		103	90-110			
LCS Dup (1729217-BSD1)				Prepared & Analyzed: 2017-10-20						
Calcium as CaCO3	49.4	5.00	mg/L	50.0		98.8	90-110	4.36	10	
Matrix Spike (1729217-MS1)				Source: 1739148-17		Prepared & Analyzed: 2017-10-20				
Calcium as CaCO3	182	5.00	mg/L	50.0	130	104	90-110			
Matrix Spike (1729217-MS2)				Source: 1739148-28		Prepared & Analyzed: 2017-10-20				
Calcium as CaCO3	163	5.00	mg/L	50.0	118	90.4	90-110			
Matrix Spike Dup (1729217-MSD1)				Source: 1739148-17		Prepared & Analyzed: 2017-10-20				
Calcium as CaCO3	178	5.00	mg/L	50.0	130	96.4	90-110	2.00	10	
Matrix Spike Dup (1729217-MSD2)				Source: 1739148-28		Prepared & Analyzed: 2017-10-20				
Calcium as CaCO3	168	5.00	mg/L	50.0	118	100	90-110	3.01	10	

Batch 1729306 - [Water Quality Preparation] Water Quality Preparation

Blank (1729306-BLK1)				Prepared & Analyzed: 2017-10-20						
Calcium as CaCO3	ND	2.50	mg/L							
LCS (1729306-BS1)				Prepared & Analyzed: 2017-10-20						
Calcium as CaCO3	50.0	5.00	mg/L	50.0		100	90-110			
LCS Dup (1729306-BSD1)				Prepared & Analyzed: 2017-10-20						
Calcium as CaCO3	52.4	5.00	mg/L	50.0		105	90-110	4.69	10	
Matrix Spike (1729306-MS1)				Source: 1740135-10		Prepared & Analyzed: 2017-10-20				
Calcium as CaCO3	185	5.00	mg/L	50.0	135	100	90-110			
Matrix Spike Dup (1729306-MSD1)				Source: 1740135-10		Prepared & Analyzed: 2017-10-20				
Calcium as CaCO3	188	5.00	mg/L	50.0	135	105	90-110	1.29	10	

Anions by EPA 300 Series - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1728308 - [300.0 Anions] 300.0 Anions

Blank (1728308-BLK1)				Prepared: 2017-10-10 Analyzed: 2017-10-11						
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	"							
LCS (1728308-BS1)				Prepared & Analyzed: 2017-10-10						

North Texas Municipal Water District

City of Rowlett
4310 Industrial
Rowlett, TEXAS 75088

Project: **Lead and Copper Rule**
Project Number: Lead and Copper Rule
Project Manager: Patrick May

Reported:
2017-10-30 11:27

Anions by EPA 300 Series - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1728308 - [300.0 Anions] 300.0 Anions

LCS (1728308-BS1)

Prepared & Analyzed: 2017-10-10

Chloride	28.1	1.00	mg/L	30.0		93.7	90-110			
Sulfate	28.9	1.00	"	30.0		96.5	90-110			

LCS Dup (1728308-BS1)

Prepared & Analyzed: 2017-10-10

Chloride	28.3	1.00	mg/L	30.0		94.2	90-110	0.497	10	
Sulfate	28.8	1.00	"	30.0		95.8	90-110	0.655	10	

Matrix Spike (1728308-MS1)

Source: 1740129-13

Prepared & Analyzed: 2017-10-10

Sulfate	422	10.0	mg/L	300	115	103	80-120			
Chloride	386	10.0	"	300	81.8	101	80-120			

Matrix Spike (1728308-MS2)

Source: 1740129-23

Prepared & Analyzed: 2017-10-10

Sulfate	433	10.0	mg/L	300	123	103	80-120			
Chloride	385	10.0	"	300	82.0	101	80-120			

Matrix Spike Dup (1728308-MSD1)

Source: 1740129-13

Prepared & Analyzed: 2017-10-10

Sulfate	426	10.0	mg/L	300	115	104	80-120	0.884	10	
Chloride	390	10.0	"	300	81.8	103	80-120	0.919	10	

Matrix Spike Dup (1728308-MSD2)

Source: 1740129-23

Prepared & Analyzed: 2017-10-10

Sulfate	414	10.0	mg/L	300	123	97.0	80-120	4.59	10	
Chloride	386	10.0	"	300	82.0	101	80-120	0.262	10	

Batch 1728404 - [300.0 Anions] 300.0 Anions

Blank (1728404-BLK1)

Prepared & Analyzed: 2017-10-11

Sulfate	ND	1.00	mg/L							
Chloride	ND	1.00	"							

LCS (1728404-BS1)

Prepared & Analyzed: 2017-10-11

Chloride	28.7	1.00	mg/L	30.0		95.7	90-110			
Sulfate	29.6	1.00	"	30.0		98.7	90-110			

LCS Dup (1728404-BS1)

Prepared & Analyzed: 2017-10-11

Chloride	28.2	1.00	mg/L	30.0		94.1	90-110	1.68	10	
Sulfate	29.0	1.00	"	30.0		96.7	90-110	2.03	10	

Matrix Spike (1728404-MS1)

Source: 1740135-03

Prepared & Analyzed: 2017-10-11

Sulfate	418	10.0	mg/L	300	115	101	80-120			
Chloride	383	10.0	"	300	78.7	101	80-120			

Matrix Spike (1728404-MS2)

Source: 1740135-13

Prepared & Analyzed: 2017-10-11

Sulfate	434	10.0	mg/L	300	121	104	80-120			
Chloride	395	10.0	"	300	82.2	104	80-120			

Matrix Spike Dup (1728404-MSD1)

Source: 1740135-03

Prepared & Analyzed: 2017-10-11

Chloride	376	10.0	mg/L	300	78.7	99.0	80-120	1.83	10	
Sulfate	412	10.0	"	300	115	99.0	80-120	1.55	10	

North Texas Municipal Water District

City of Rowlett
4310 Industrial
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Project: **Lead and Copper Rule**
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Anions by EPA 300 Series - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1728404 - [300.0 Anions] 300.0 Anions										
Matrix Spike Dup (1728404-MSD2)		Source: 1740135-13			Prepared & Analyzed: 2017-10-11					
Sulfate	426	10.0	mg/L	300	121	102	80-120	1.71	10	
Chloride	399	10.0	"	300	82.2	105	80-120	0.829	10	

City of Rowlett

Em Dg. 4 of 4

<u>Work order</u>	<u>Container</u>	<u>Initial pH</u>	<u>Final pH</u>
1740135	01B-13B	7	22

pH strips: NR10179

HNO₃: NR30514

LG 10-4-17 @ 14:50

