



Analytical Results

Client ID: TX1990012	Date Collected: 01/23/2023 14:01	Matrix: Drinking Water
Lab ID: Q2303039001	Date Received: 01/24/2023 09:00	Sample Type: SAMPLE
Sample ID: 2348259	Location: █████ PRAIRIE HILL ESTATES, ROCKWALL	
Project ID: DRINKING WATER PROGRAM	Facility: DS01	
	Sample Point: DBP2-01	

HALOACETIC ACIDS (552.2 Haloacetic Acids by GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Bromochloroacetic Acid	5.80	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 16:33	MF	N
Dibromoacetic Acid	2.80	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 16:33	MF	N
Dichloroacetic Acid	7.40	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 16:33	MF	N
Monobromoacetic Acid	<1.00	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 16:33	MF	N
Monochloroacetic Acid	1.00	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 16:33	MF	N
Total Regulated HAA	12.8	ug/L	1.00	0.500	60		01/30/2023 08:00	AJM	01/31/2023 16:33	MF	
Trichloroacetic acid	1.60	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 16:33	MF	N

Surrogates

Parameter	Units	% Spike Recovery	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	91.2	70 - 130	

Volatiles (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloroform	6.63	ug/L	1.00	0.500		1	01/25/2023 04:24	EAO	01/25/2023 04:24	EAO	N
Bromodichloromethane	9.83	ug/L	1.00	0.500		1	01/25/2023 04:24	EAO	01/25/2023 04:24	EAO	N
Dibromochloromethane	8.37	ug/L	1.00	0.500		1	01/25/2023 04:24	EAO	01/25/2023 04:24	EAO	N
Bromoform	2.80	ug/L	1.00	0.500		1	01/25/2023 04:24	EAO	01/25/2023 04:24	EAO	N
Total Trihalomethanes	27.6	ug/L	1.00	0.500	80		01/25/2023 04:24	EAO	01/25/2023 04:24	EAO	

Surrogates

Parameter	Units	% Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	83.1	70 - 130	
4-Bromofluorobenzene (S)	%	82.0	70 - 130	



Analytical Results

Client ID: TX1990012	Date Collected: 01/23/2023 13:46	Matrix: Drinking Water
Lab ID: Q2303039002	Date Received: 01/24/2023 09:00	Sample Type: SAMPLE
Sample ID: 2348260	Location: ████████ HISHOLM TRL, ROCKWALL	
Project ID: DRINKING WATER PROGRAM	Facility: DS01	
	Sample Point: DBP2-02	

HALOACETIC ACIDS (552.2 Haloacetic Acids by GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Bromochloroacetic Acid	6.10	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 17:22	MF	N
Dibromoacetic Acid	3.00	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 17:22	MF	N
Dichloroacetic Acid	7.80	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 17:22	MF	N
Monobromoacetic Acid	<1.00	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 17:22	MF	N
Monochloroacetic Acid	1.00	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 17:22	MF	N
Total Regulated HAA	13.7	ug/L	1.00	0.500	60		01/30/2023 08:00	AJM	01/31/2023 17:22	MF	
Trichloroacetic acid	1.90	ug/L	1.00	0.500		1	01/30/2023 08:00	AJM	01/31/2023 17:22	MF	N

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	107.0	70 - 130	

Volatiles (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloroform	6.93	ug/L	1.00	0.500		1	01/25/2023 04:49	EAO	01/25/2023 04:49	EAO	N
Bromodichloromethane	9.99	ug/L	1.00	0.500		1	01/25/2023 04:49	EAO	01/25/2023 04:49	EAO	N
Dibromochloromethane	8.86	ug/L	1.00	0.500		1	01/25/2023 04:49	EAO	01/25/2023 04:49	EAO	N
Bromoform	2.82	ug/L	1.00	0.500		1	01/25/2023 04:49	EAO	01/25/2023 04:49	EAO	N
Total Trihalomethanes	28.6	ug/L	1.00	0.500	80		01/25/2023 04:49	EAO	01/25/2023 04:49	EAO	

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	85.0	70 - 130	
4-Bromofluorobenzene (S)	%	84.6	70 - 130	



Quality Control Results

QC Batch: ORG/11435
 Preparation Method: 552.2 Haloacetic Acids by GC
 Associated Lab IDs: Q2303039001

Analysis Method: 552.2 Haloacetic Acids by GC

Laboratory Fortified Matrix (1856058); Original: Q2303035001

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	100.	96.2	95.1	70 - 130	
Monobromoacetic Acid	ug/L	100.	99.3	99.3	70 - 130	
Dichloroacetic Acid	ug/L	100.	105.	99.9	70 - 130	
Trichloroacetic acid	ug/L	100.	96.	96.	70 - 130	
Bromochloroacetic Acid	ug/L	100.	105.	102.	70 - 130	
Dibromoacetic Acid	ug/L	100.	102.	101.	70 - 130	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	99.40	70 - 130	

Laboratory Fortified Blank (1856056); Lab Fortified Blank Duplicate (1856057)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Monochloroacetic Acid	ug/L	50.	45.4	90.8	70 - 130	46.0	92.0	1.31	30	
Monobromoacetic Acid	ug/L	50.	46.	92.	70 - 130	46.8	93.6	1.72	30	
Dichloroacetic Acid	ug/L	50.	44.5	89.	70 - 130	46.0	92.0	3.31	30	
Trichloroacetic acid	ug/L	50.	38.6	77.2	70 - 130	40.3	80.6	4.31	30	
Bromochloroacetic Acid	ug/L	50.	42.6	85.2	70 - 130	45.4	90.8	6.36	30	
Dibromoacetic Acid	ug/L	50.	41.2	82.4	70 - 130	44.4	88.8	7.48	30	



Quality Control Results

QC Batch: ORG/11435
 Preparation Method: 552.2 Haloacetic Acids by GC
 Associated Lab IDs: Q2303039001, Q2303039002

Analysis Method: 552.2 Haloacetic Acids by GC

Laboratory Fortified Blank (1856059); Lab Fortified Blank Duplicate (1856060)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Monochloroacetic Acid	ug/L	50.	46.	92.	70 - 130	45.9	91.8	0.218	30	
Monobromoacetic Acid	ug/L	50.	46.8	93.6	70 - 130	47.0	94.0	0.426	30	
Dichloroacetic Acid	ug/L	50.	46.	92.	70 - 130	46.3	92.6	0.65	30	
Trichloroacetic acid	ug/L	50.	40.3	80.6	70 - 130	40.5	81.0	0.495	30	
Bromochloroacetic Acid	ug/L	50.	45.4	90.8	70 - 130	45.6	91.2	0.44	30	
Dibromoacetic Acid	ug/L	50.	44.4	88.8	70 - 130	44.5	89.0	0.225	30	

Method Reporting Limit Check (1856054)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	1.	0.8	80.	50 - 150	
Monobromoacetic Acid	ug/L	1.	1.1	110.	50 - 150	
Dichloroacetic Acid	ug/L	1.	1.1	110.	50 - 150	
Trichloroacetic acid	ug/L	1.	1.	100.	50 - 150	
Bromochloroacetic Acid	ug/L	1.	1.	100.	50 - 150	
Dibromoacetic Acid	ug/L	1.	1.	100.	50 - 150	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	101	50 - 150	

Laboratory Fortified Matrix (1856061); Original: Q2303039002

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	100.	96.1	95.1	70 - 130	
Monobromoacetic Acid	ug/L	100.	98.7	98.7	70 - 130	
Dichloroacetic Acid	ug/L	100.	105.	97.4	70 - 130	
Trichloroacetic acid	ug/L	100.	92.6	90.7	70 - 130	
Bromochloroacetic Acid	ug/L	100.	105.	98.7	70 - 130	
Dibromoacetic Acid	ug/L	100.	100.	97.3	70 - 130	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	95.60	70 - 130	

Laboratory Reagent Blank(1856051)



Quality Control Results

QC Batch: ORG/11435
 Preparation Method: 552.2 Haloacetic Acids by GC
 Associated Lab IDs: Q2303039001, Q2303039002

Analysis Method: 552.2 Haloacetic Acids by GC

Parameter	Units	Results	MRL	LOD	Qualifier
Monochloroacetic Acid	ug/L	<1.00	1.0	0.5	
Monobromoacetic Acid	ug/L	<1.00	1.0	0.5	
Dichloroacetic Acid	ug/L	<1.00	1.0	0.5	
Trichloroacetic acid	ug/L	<1.00	1.0	0.5	
Bromochloroacetic Acid	ug/L	<1.00	1.0	0.5	
Dibromoacetic Acid	ug/L	<1.00	1.0	0.5	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	88	70 - 130	



Quality Control Results

QC Batch: ORG/11435
 Preparation Method: 552.2 Haloacetic Acids by GC
 Associated Lab IDs: Q2303039002

Analysis Method: 552.2 Haloacetic Acids by GC

Laboratory Fortified Blank (1856062); Lab Fortified Blank Duplicate (1856063)

Parameter	Units	Spiked Amount	Spike Result	% Spike Recovery	Control Limits %	Duplicate Result	% Duplicate Recovery	RPD	RPD Limit	Qualifier
Monochloroacetic Acid	ug/L	50.	45.9	91.8	70 - 130	44.7	89.4	2.65	30	
Monobromoacetic Acid	ug/L	50.	47.	94.	70 - 130	46.3	92.6	1.5	30	
Dichloroacetic Acid	ug/L	50.	46.3	92.6	70 - 130	45.4	90.8	1.96	30	
Trichloroacetic acid	ug/L	50.	40.5	81.	70 - 130	39.4	78.8	2.75	30	
Bromochloroacetic Acid	ug/L	50.	45.6	91.2	70 - 130	43.7	87.4	4.26	30	
Dibromoacetic Acid	ug/L	50.	44.5	89.	70 - 130	42.3	84.6	5.07	30	

Laboratory Fortified Matrix (1856064); Original: Q2303061001

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	100.	93.7	91.1	70 - 130	
Monobromoacetic Acid	ug/L	100.	94.5	94.5	70 - 130	
Dichloroacetic Acid	ug/L	100.	98.4	70.5	70 - 130	
Trichloroacetic acid	ug/L	100.	58.5	49.6	70 - 130	SL
Bromochloroacetic Acid	ug/L	100.	70.1	65.5	70 - 130	SL
Dibromoacetic Acid	ug/L	100.	58.3	58.3	70 - 130	SL

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	52	70 - 130	S



Quality Control Results

QC Batch: OVOL/6118
 Preparation Method: E524.2 Volatiles by GC/MS
 Associated Lab IDs: Q2303039001, Q2303039002

Analysis Method: E524.2 Volatiles by GC/MS

Laboratory Reagent Blank(1854189)

Parameter	Units	Results	MRL	LOD	Qualifier
Chloroform	ug/L	<1.00	1.0	0.5	
Bromodichloromethane	ug/L	<1.00	1.0	0.5	
Dibromochloromethane	ug/L	<1.00	1.0	0.5	
Bromoform	ug/L	<1.00	1.0	0.5	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	81.20	70 - 130	
4-Bromofluorobenzene (S)	%	83.20	70 - 130	

Laboratory Fortified Blank (1854187); Lab Fortified Blank Duplicate (1854188)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Chloroform	ug/L	50.	46.4	92.9	70 - 130	44.0	88.0	5.31	30	
Bromodichloromethane	ug/L	50.	41.5	83.1	70 - 130	39.5	79.0	4.94	30	
Dibromochloromethane	ug/L	50.	37.6	75.1	70 - 130	37.4	74.8	0.533	30	
Bromoform	ug/L	50.	36.5	72.9	70 - 130	35.1	70.2	3.91	30	

Method Reporting Limit Check (1854185)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloroform	ug/L	1.	1.05	105.	50 - 150	
Bromodichloromethane	ug/L	1.	0.97	97.	50 - 150	
Dibromochloromethane	ug/L	1.	0.86	86.	50 - 150	
Bromoform	ug/L	1.	0.88	88.	50 - 150	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	83.90	50 - 150	
4-Bromofluorobenzene (S)	%	83	50 - 150	



QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
<i>ORG/11435 - 552.2 Haloacetic Acids by GC</i>			
Q2303039001	2348259	OEXT/9675	552.2 Haloacetic Acids by GC
Q2303039002	2348260	OEXT/9675	552.2 Haloacetic Acids by GC
<i>OVOL/6118 - E524.2 Volatiles by GC/MS</i>			
Q2303039001	2348259		
Q2303039002	2348260		

End of Report