



PWS_1120014_AC_20211014_Analysis Report
LCRA Environmental Laboratory Services
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November 12, 2021

MICHAEL RAWSON
PO BOX 1160
SULPHUR SPRINGS, TX 75483

RE: Final Analytical Report Q2128874

Attn: MICHAEL RAWSON

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report. This final report provides results related only to the sample(s) as received for the above referenced work order.

Thank you for selecting ELS for your analytical needs. If you have any questions regarding this report, please contact us at (512) 730-6022 or environmental.lab@lcra.org. We look forward to assisting you again.

Authorized for release by:

Bhanu Acharya
Account Manager
bhanu.acharya@lcra.org



Enclosures:

Workorder: Q2128874
Workorder Description: TX1120014_PWS_10_15_2021
Client: GAFFORD CHAPEL WSC
Profile: DRINKING WATER PROGRAM
Sampled By: CHRISTINA NIXON

Report To: MICHAEL RAWSON
PO BOX 1160
SULPHUR SPRINGS, TX
75483

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
Q2128874001	2123912	DW	E504.1 GC	10/14/2021 10:25	10/15/2021 08:53	3
Q2128874002	2123912	DW		10/14/2021 10:25	10/15/2021 08:53	0
Q2128874003	2122235	DW	E515.4 Herbicides by GC	10/14/2021 10:54	10/15/2021 08:53	14
Q2128874004	2124807	DW	E504.1 GC	10/14/2021 10:54	10/15/2021 08:53	3
Q2128874005	2124807	DW		10/14/2021 10:54	10/15/2021 08:53	0
Q2128874006	2113711	DW	E200.7 Metals, Trace Elements	10/14/2021 10:25	10/15/2021 08:53	5
Q2128874006	2113711	DW	E200.8, ICP-MS	10/14/2021 10:25	10/15/2021 08:53	15
Q2128874006	2113711	DW	E245.1 Mercury Water	10/14/2021 10:25	10/15/2021 08:53	1
Q2128874006	2113711	DW	SM2340B, Hardness Calc.	10/14/2021 10:25	10/15/2021 08:53	1
Q2128874007	2114498	DW	E200.7 Metals, Trace Elements	10/14/2021 10:54	10/15/2021 08:53	5
Q2128874007	2114498	DW	E200.8, ICP-MS	10/14/2021 10:54	10/15/2021 08:53	15
Q2128874007	2114498	DW	E245.1 Mercury Water	10/14/2021 10:54	10/15/2021 08:53	1
Q2128874007	2114498	DW	SM2340B, Hardness Calc.	10/14/2021 10:54	10/15/2021 08:53	1
Q2128874008	2116260	DW	E300.0, Anions	10/14/2021 10:25	10/15/2021 08:53	4
Q2128874008	2116260	DW	SM2320B, Alkalinity	10/14/2021 10:25	10/15/2021 08:53	5
Q2128874008	2116260	DW	SM2510B, Conductivity @ 25°C	10/14/2021 10:25	10/15/2021 08:53	1
Q2128874008	2116260	DW	SM2540C, TDS	10/14/2021 10:25	10/15/2021 08:53	1
Q2128874009	2117105	DW	E300.0, Anions	10/14/2021 10:54	10/15/2021 08:53	4
Q2128874009	2117105	DW	SM2320B, Alkalinity	10/14/2021 10:54	10/15/2021 08:53	5
Q2128874009	2117105	DW	SM2510B, Conductivity @ 25°C	10/14/2021 10:54	10/15/2021 08:53	1
Q2128874009	2117105	DW	SM2540C, TDS	10/14/2021 10:54	10/15/2021 08:53	1
Q2128874010	2121444	DW	E515.4 Herbicides by GC	10/14/2021 10:25	10/15/2021 08:53	14
Q2128874011	2159329	DW	552.2 Haloacetic Acids by GC	10/14/2021 09:33	10/15/2021 08:53	7
Q2128874011	2159329	DW	E524.2 Volatiles by GC/MS	10/14/2021 09:33	10/15/2021 08:53	5
Q2128874012	2159330	DW	552.2 Haloacetic Acids by GC	10/14/2021 09:50	10/15/2021 08:53	7
Q2128874012	2159330	DW	E524.2 Volatiles by GC/MS	10/14/2021 09:50	10/15/2021 08:53	5
Q2128874013	2102468	DW	E524.2 Volatiles by GC/MS	10/14/2021 10:25	10/15/2021 08:53	70
Q2128874014	2102468	DW		10/14/2021 10:25	10/15/2021 08:53	0
Q2128874015	2104722	DW	E524.2 Volatiles by GC/MS	10/14/2021 10:53	10/15/2021 08:53	70
Q2128874016	2104722	DW		10/14/2021 10:53	10/15/2021 08:53	0

Report Definitions

MRL - Minimum Reporting Limit
LOD - Limit of Detection
ML - Maximum Limit - Client Specified
MCL - Maximum Contaminant Level
LOQ - Limit of Quantitation - Client Specified
DF - Dilution Factor
(S) - Surrogate Spike
MDL - Method Detection Limit
RPD - Relative Percent Difference

Qualifier Definitions

J - Analyte detected below quantitation limit
R - RPD outside duplicate precision limit
S - Spike recovery outside limit
B - Analyte detected in method blank
N - Not Accredited
M - Analyte Detected Above Maximum Contaminant Level
SL - Spike Recovery Low
SH - Spike Recovery High
H - Analyzed Past Hold Time
CR - Confirmed Result
CH - Result confirmed by historical data

Workorder Summary

Analysis Results Comments

Lab ID: Q2128874012 Sample ID: 2159330

Total Trihalomethanes - M|Analyte Detected Above Maximum Contaminant Level

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874001	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2123912	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

E504.1 Monitored, Unregulated (E504.1 GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
1,2,3-Trichloropropane	<0.02	ug/L	0.02	0.01		1	10/18/2021 14:00	AJM	10/19/2021 10:14	MF	N

E504.1 Regulated (E504.1 GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
1,2-Dibromoethane	<0.01	ug/L	0.02	0.01	0.05	1	10/18/2021 14:00	AJM	10/19/2021 10:14	MF	
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	0.01	0.20	1	10/18/2021 14:00	AJM	10/19/2021 10:14	MF	

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874002	Date Received: 10/15/2021 08:53	Sample Type: FB
Sample ID: 2123912	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

Sample results did not require analysis of the Field Blank sample.

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:54	Matrix: Drinking Water
Lab ID: Q2128874003	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2122235	Location: MT ZION PLANT - STANDPIPE	
Project ID: DRINKING WATER PROGRAM	Facility: EP002	
	Sample Point: TRT-TAP	

E515.4 Monitored, Unregulated (E515.4 Herbicides by GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
3,5-Dichlorobenzoic acid	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
Dicamba	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
Dichlorprop	<2.50	ug/L	2.50	1.25		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
Chloramben	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
2,4,5-T	<0.625	ug/L	0.625	0.313		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
2,4-DB	<2.50	ug/L	2.50	1.25		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
Bentazon	<2.50	ug/L	2.50	1.25		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N
Acifluorfen	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	N

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
DCPA (S)	%	93.0	70 - 130	

E515.4 Regulated (E515.4 Herbicides by GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Dalapon	<1.00	ug/L	2.50	1.00	200	1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	
2,4-D	<0.100	ug/L	2.50	0.100	70	1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	
Pentachlorophenol	<0.0400	ug/L	0.250	0.0400	1	1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	
2,4,5-TP	<0.200	ug/L	0.625	0.200	50	1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	
Dinoseb	<0.200	ug/L	2.50	0.200	7	1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	
Picloram	<0.100	ug/L	2.50	0.100	500	1	10/25/2021 10:43	MO	10/26/2021 20:31	KRD	

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
DCPA (S)	%	93.0	70 - 130	

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:54	Matrix: Drinking Water
Lab ID: Q2128874004	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2124807	Location: MT ZION PLANT - STANDPIPE	
Project ID: DRINKING WATER PROGRAM	Facility: EP002	
	Sample Point: TRT-TAP	

E504.1 Monitored, Unregulated (E504.1 GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
1,2,3-Trichloropropane	<0.02	ug/L	0.02	0.01		1	10/18/2021 14:00	AJM	10/19/2021 10:39	MF	N

E504.1 Regulated (E504.1 GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
1,2-Dibromoethane	<0.01	ug/L	0.02	0.01	0.05	1	10/18/2021 14:00	AJM	10/19/2021 10:39	MF	
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	0.01	0.20	1	10/18/2021 14:00	AJM	10/19/2021 10:39	MF	



Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:54	Matrix: Drinking Water
Lab ID: Q2128874005	Date Received: 10/15/2021 08:53	Sample Type: FB
Sample ID: 2124807	Location: MT ZION PLANT - STANDPIPE	
Project ID: DRINKING WATER PROGRAM	Facility: EP002	
	Sample Point: TRT-TAP	

Sample results did not require analysis of the Field Blank sample.

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874006	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2113711	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

HEAVY METALS (E245.1 Mercury Water)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Mercury Total	<0.000200	mg/L	0.000200	0.000200	0.0020	1	10/18/2021 13:22	FM	10/19/2021 11:05	FM	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Calcium Total	1.15	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:31	FM	N
Iron Total	<0.0500	mg/L	0.0500	0.0200		1	10/18/2021 16:28	ERR	10/18/2021 20:31	FM	
Potassium Total	0.787	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:31	FM	
Magnesium Total	<0.200	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:31	FM	
Sodium Total	265	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:31	FM	

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Aluminum Total	0.0059	mg/L	0.00500	0.00200		1	10/18/2021 16:30	ERR	10/19/2021 17:11	FO	
Chromium Total	<0.00100	mg/L	0.00100	0.000400	0.10	1	10/18/2021 16:30	ERR	10/19/2021 17:11	FO	
Manganese Total	<0.00100	mg/L	0.00100	0.000400		1	10/18/2021 16:30	ERR	10/19/2021 17:11	FO	

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Antimony Total	<0.00100	mg/L	0.00100	0.000400	0.0060	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Arsenic Total	<0.00100	mg/L	0.00100	0.000400	0.01	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Barium Total	0.011	mg/L	0.00100	0.000400	2	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Beryllium Total	<0.00100	mg/L	0.00100	0.000400	0.0040	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Cadmium Total	<0.00100	mg/L	0.00100	0.000400	0.0050	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Copper Total	0.0019	mg/L	0.00100	0.000400	1	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Lead Total	<0.00100	mg/L	0.00100	0.000400	0.0150	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Nickel Total	<0.00100	mg/L	0.00100	0.000400		1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Selenium Total	<0.00500	mg/L	0.00500	0.00200	0.05	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Silver Total	<0.00100	mg/L	0.00100	0.000400		1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Thallium Total	<0.00100	mg/L	0.00100	0.000200	0.0020	1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	
Zinc Total	<0.00500	mg/L	0.00500	0.00200		1	10/18/2021 16:30	ERR	10/19/2021 15:09	FO	

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	2.87	mg/L				1	10/20/2021 11:08	CW	10/20/2021 11:08	CW	N

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:54	Matrix: Drinking Water
Lab ID: Q2128874007	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2114498	Location: MT ZION PLANT - STANDPIPE	
Project ID: DRINKING WATER PROGRAM	Facility: EP002	
	Sample Point: TRT-TAP	

HEAVY METALS (E245.1 Mercury Water)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Mercury Total	<0.000200	mg/L	0.000200	0.000200	0.0020	1	10/18/2021 13:22	FM	10/19/2021 11:07	FM	

INORGANICS (E200.7 Prep/E200.7 Metals, Trace Elements)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Calcium Total	1.04	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:36	FM	N
Iron Total	<0.0500	mg/L	0.0500	0.0200		1	10/18/2021 16:28	ERR	10/18/2021 20:36	FM	
Potassium Total	0.632	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:36	FM	
Magnesium Total	<0.200	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:36	FM	
Sodium Total	220	mg/L	0.200	0.0700		1	10/18/2021 16:28	ERR	10/18/2021 20:36	FM	

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Aluminum Total	0.0085	mg/L	0.00500	0.00200		1	10/18/2021 16:30	ERR	10/19/2021 17:13	FO	
Chromium Total	<0.00100	mg/L	0.00100	0.000400	0.10	1	10/18/2021 16:30	ERR	10/19/2021 17:13	FO	
Manganese Total	<0.00100	mg/L	0.00100	0.000400		1	10/18/2021 16:30	ERR	10/19/2021 17:13	FO	

INORGANICS (E200.8, ICP-MS Prep/E200.8, ICP-MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Antimony Total	<0.00100	mg/L	0.00100	0.000400	0.0060	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Arsenic Total	<0.00100	mg/L	0.00100	0.000400	0.01	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Barium Total	0.0078	mg/L	0.00100	0.000400	2	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Beryllium Total	<0.00100	mg/L	0.00100	0.000400	0.0040	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Cadmium Total	<0.00100	mg/L	0.00100	0.000400	0.0050	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Copper Total	0.0062	mg/L	0.00100	0.000400	1	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Lead Total	<0.00100	mg/L	0.00100	0.000400	0.0150	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Nickel Total	<0.00100	mg/L	0.00100	0.000400		1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Selenium Total	<0.00500	mg/L	0.00500	0.00200	0.05	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Silver Total	<0.00100	mg/L	0.00100	0.000400		1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Thallium Total	<0.00100	mg/L	0.00100	0.000200	0.0020	1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	
Zinc Total	<0.00500	mg/L	0.00500	0.00200		1	10/18/2021 16:30	ERR	10/19/2021 15:12	FO	

INORGANICS (SM2340B, Hardness Calc.)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Hardness (as CaCO3)	2.59	mg/L				1	10/20/2021 11:11	CW	10/20/2021 11:11	CW	N

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874008	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2116260	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

ALKALINITY (SM2320B, Alkalinity)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Phenolphthalein Alkalinity	9.84	mg/L	0.00	0.00		1	10/15/2021 00:00	ME	10/15/2021 00:00	ME	N
Hydroxide Alkalinity	0.00	mg/L	0.00	0.00		1	10/15/2021 00:00	ME	10/15/2021 00:00	ME	N
Bicarbonate Alkalinity	437	mg/L	0.00	0.00		1	10/15/2021 00:00	ME	10/15/2021 00:00	ME	N
Carbonate Alkalinity	19.7	mg/L	0.00	0.00		1	10/15/2021 00:00	ME	10/15/2021 00:00	ME	N
Total Alkalinity (CaCO3)	456	mg/L	20.0	20.0		1	10/15/2021 00:00	ME	10/15/2021 00:00	ME	N

Conductance @ 25°C (SM2510B, Conductivity @ 25°C)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Specific Conductance	1230	umho/cm	10.0	10.0		1	10/15/2021 14:26	ME	10/15/2021 14:26	ME	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloride	134	mg/L	5.00	2.50		5	10/19/2021 02:37	ML	10/19/2021 02:37	ML	

INORGANICS (E300.0, Anions)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Fluoride	2.33	mg/L	0.0100	0.00500	4	1	10/17/2021 01:37	ML	10/17/2021 01:37	ML	
Nitrate (as N)	0.0605	mg/L	0.0100	0.00500	10	1	10/17/2021 01:37	ML	10/17/2021 01:37	ML	
Sulfate	<1.00	mg/L	1.00	0.500		1	10/17/2021 01:37	ML	10/17/2021 01:37	ML	

TOTAL DISSOLVED SOLIDS (SM2540C, TDS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Total Dissolved Solids(TDS)	666	mg/L	25.0	10.0		10	10/19/2021 14:17	ML	10/19/2021 14:17	ML	

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874010	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2121444	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

E515.4 Monitored, Unregulated (E515.4 Herbicides by GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
3,5-Dichlorobenzoic acid	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
Dicamba	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
Dichlorprop	<2.50	ug/L	2.50	1.25		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
Chloramben	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
2,4,5-T	<0.625	ug/L	0.625	0.313		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
2,4-DB	<2.50	ug/L	2.50	1.25		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
Bentazon	<2.50	ug/L	2.50	1.25		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N
Acifluorfen	<1.25	ug/L	1.25	0.625		1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	N

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
DCPA (S)	%	72.8	70 - 130	

E515.4 Regulated (E515.4 Herbicides by GC)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Dalapon	<1.00	ug/L	2.50	1.00	200	1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	
2,4-D	<0.100	ug/L	2.50	0.100	70	1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	
Pentachlorophenol	<0.0400	ug/L	0.250	0.0400	1	1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	
2,4,5-TP	<0.200	ug/L	0.625	0.200	50	1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	
Dinoseb	<0.200	ug/L	2.50	0.200	7	1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	
Picloram	<0.100	ug/L	2.50	0.100	500	1	10/25/2021 10:43	MO	10/26/2021 20:58	KRD	

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
DCPA (S)	%	72.8	70 - 130	

Analytical Results

Client ID: TX1120014 **Date Collected:** 10/14/2021 09:33 **Matrix:** Drinking Water
Lab ID: Q2128874011 **Date Received:** 10/15/2021 08:53 **Sample Type:** SAMPLE
Sample ID: 2159329 **Location:** 145 CR 4701, SULPHUR SPRINGS
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	3.60	ug/L	1.00	0.500		1	10/25/2021 15:43	AJM	10/26/2021 08:29	MF	N
Dibromoacetic Acid	<1.00	ug/L	1.00	0.500		1	10/25/2021 15:43	AJM	10/26/2021 08:29	MF	N
Dichloroacetic Acid	9.90	ug/L	1.00	0.500		1	10/25/2021 15:43	AJM	10/26/2021 08:29	MF	N
Monobromoacetic Acid	<1.00	ug/L	1.00	0.500		1	10/25/2021 15:43	AJM	10/26/2021 08:29	MF	N
Monochloroacetic Acid	<1.00	ug/L	1.00	0.500		1	10/25/2021 15:43	AJM	10/26/2021 08:29	MF	N
Total Regulated HAA	16.8	ug/L	1.00	0.500	60		10/25/2021 15:43	AJM	10/26/2021 08:29	MF	
Trichloroacetic acid	6.90	ug/L	1.00	0.500		1	10/25/2021 15:43	AJM	10/26/2021 08:29	MF	N

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	87.8	70 - 130	

Volatiles (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Chloroform	21.8	ug/L	1.00	0.500		1	10/20/2021 03:08	EAO	10/20/2021 03:08	EAO	N
Bromodichloromethane	10.5	ug/L	1.00	0.500		1	10/20/2021 03:08	EAO	10/20/2021 03:08	EAO	N
Dibromochloromethane	2.54	ug/L	1.00	0.500		1	10/20/2021 03:08	EAO	10/20/2021 03:08	EAO	N
Bromoform	<1.00	ug/L	1.00	0.500		1	10/20/2021 03:08	EAO	10/20/2021 03:08	EAO	N
Total Trihalomethanes	34.8	ug/L	1.00	0.500	80		10/20/2021 03:08	EAO	10/20/2021 03:08	EAO	

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	90.0	70 - 130	
4-Bromofluorobenzene (S)	%	84.6	70 - 130	

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874013	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2102468	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

E524.2 Regulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Vinyl chloride	<0.500	ug/L	0.500	0.250	2	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,1-Dichloroethene	<0.500	ug/L	0.500	0.250	7	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Methylene chloride	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
trans-1,2-Dichloroethene	<0.500	ug/L	0.500	0.250	100	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
cis-1,2-Dichloroethene	<0.500	ug/L	0.500	0.250	70	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,1,1-Trichloroethane	<0.500	ug/L	0.500	0.250	200	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Carbon tetrachloride	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,2-Dichloroethane	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Benzene	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Trichloroethene	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,2-Dichloropropane	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Toluene	<0.500	ug/L	0.500	0.250	1000	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,1,2-Trichloroethane	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Tetrachloroethene	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Chlorobenzene	<0.500	ug/L	0.500	0.250	100	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Ethyl Benzene	<0.500	ug/L	0.500	0.250	700	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
m,p-Xylene	<0.500	ug/L	1.00	0.500		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Styrene	<0.500	ug/L	0.500	0.250	100	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,4-Dichlorobenzene	<0.500	ug/L	0.500	0.250	75	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,2-Dichlorobenzene	<0.500	ug/L	0.500	0.250	600	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
1,2,4-Trichlorobenzene	<0.500	ug/L	0.500	0.250	70	1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	
Xylene (total)	<0.500	ug/L	0.500	0.250	10000		10/20/2021 16:26	MH	10/20/2021 16:26	MH	

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	98.1	70 - 130	
4-Bromofluorobenzene (S)	%	99.0	70 - 130	

E524.2 Unregulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Dichlorodifluoromethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
Chloromethane	0.870	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
Bromomethane	1.18	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
Chloroethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
4-Chlorotoluene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874013	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2102468	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

E524.2 Unregulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
tert-Butylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
1,2,4-Trimethylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
sec-Butylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
1,3-Dichlorobenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
4-Isopropyltoluene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
n-Butylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
Hexachlorobutadiene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
Naphthalene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N
1,2,3-Trichlorobenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 16:26	MH	10/20/2021 16:26	MH	N

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	98.1	70 - 130	
4-Bromofluorobenzene (S)	%	99.0	70 - 130	



Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:25	Matrix: Drinking Water
Lab ID: Q2128874014	Date Received: 10/15/2021 08:53	Sample Type: FB
Sample ID: 2102468	Location: IN PH	
Project ID: DRINKING WATER PROGRAM	Facility: EP001	
	Sample Point: TRT-TAP	

Sample results did not require analysis of the Field Blank sample.

Analytical Results

Client ID: TX1120014 **Date Collected:** 10/14/2021 10:53 **Matrix:** Drinking Water
Lab ID: Q2128874015 **Date Received:** 10/15/2021 08:53 **Sample Type:** SAMPLE
Sample ID: 2104722 **Location:** MT ZION PLANT - STANDPIPE
Project ID: DRINKING WATER PROGRAM **Facility:** EP002
Sample Point: TRT-TAP

E524.2 Regulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Vinyl chloride	<0.500	ug/L	0.500	0.250	2	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,1-Dichloroethene	<0.500	ug/L	0.500	0.250	7	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Methylene chloride	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
trans-1,2-Dichloroethene	<0.500	ug/L	0.500	0.250	100	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
cis-1,2-Dichloroethene	<0.500	ug/L	0.500	0.250	70	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,1,1-Trichloroethane	<0.500	ug/L	0.500	0.250	200	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Carbon tetrachloride	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,2-Dichloroethane	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Benzene	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Trichloroethene	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,2-Dichloropropane	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Toluene	<0.500	ug/L	0.500	0.250	1000	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,1,2-Trichloroethane	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Tetrachloroethene	<0.500	ug/L	0.500	0.250	5	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Chlorobenzene	<0.500	ug/L	0.500	0.250	100	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Ethyl Benzene	<0.500	ug/L	0.500	0.250	700	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
m,p-Xylene	1.74	ug/L	1.00	0.500		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Styrene	<0.500	ug/L	0.500	0.250	100	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,4-Dichlorobenzene	<0.500	ug/L	0.500	0.250	75	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,2-Dichlorobenzene	<0.500	ug/L	0.500	0.250	600	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
1,2,4-Trichlorobenzene	<0.500	ug/L	0.500	0.250	70	1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Xylene (total)	2.72	ug/L	0.500	0.250	10000		10/20/2021 14:47	MH	10/20/2021 14:47	MH	

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	98.7	70 - 130	
4-Bromofluorobenzene (S)	%	102.0	70 - 130	

E524.2 Unregulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Dichlorodifluoromethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Chloromethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Bromomethane	0.570	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Chloroethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
4-Chlorotoluene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N

Analytical Results

Client ID: TX1120014 **Date Collected:** 10/14/2021 10:53 **Matrix:** Drinking Water
Lab ID: Q2128874015 **Date Received:** 10/15/2021 08:53 **Sample Type:** SAMPLE
Sample ID: 2104722 **Location:** MT ZION PLANT - STANDPIPE
Project ID: DRINKING WATER PROGRAM **Facility:** EP002
Sample Point: TRT-TAP

E524.2 Unregulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
Trichlorofluoromethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Acetone	<5.00	ug/L	5.00	2.50		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Methyl iodide	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Carbon disulfide	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Acrylonitrile	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
tert-Butyl methyl ether (MTBE)	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,1-Dichloroethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Vinyl acetate	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
2,2-Dichloropropane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
2-Butanone	<5.00	ug/L	5.00	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Bromochloromethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Tetrahydrofuran	<5.00	ug/L	5.00	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Chloroform	3.20	ug/L	1.00	0.500		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,1-Dichloropropene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Methyl methacrylate	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Dibromomethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Bromodichloromethane	10.2	ug/L	1.00	0.500		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
cis-1,3-Dichloropropene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
4-Methyl-2-pentanone	1.16	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
trans-1,3-Dichloropropene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Ethyl methacrylate	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,3-Dichloropropane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
2-Hexanone	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Dibromochloromethane	27.0	ug/L	1.00	0.500		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,1,1,2-Tetrachloroethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
o-Xylene	0.980	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	
Bromoform	32.5	ug/L	1.00	0.500		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Isopropylbenzene (Cumene)	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,1,2,2-Tetrachloroethane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Bromobenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,2,3-Trichloropropane	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
n-Propylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
2-Chlorotoluene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,3,5-Trimethylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N

Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:53	Matrix: Drinking Water
Lab ID: Q2128874015	Date Received: 10/15/2021 08:53	Sample Type: SAMPLE
Sample ID: 2104722	Location: MT ZION PLANT - STANDPIPE	
Project ID: DRINKING WATER PROGRAM	Facility: EP002	
	Sample Point: TRT-TAP	

E524.2 Unregulated (E524.2 Volatiles by GC/MS)

Parameter	Results	Units	MRL	LOD	MCL	DF	Prepared	By	Analyzed	By	Qualifier
tert-Butylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,2,4-Trimethylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
sec-Butylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,3-Dichlorobenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
4-Isopropyltoluene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
n-Butylbenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Hexachlorobutadiene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
Naphthalene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N
1,2,3-Trichlorobenzene	<0.500	ug/L	0.500	0.250		1	10/20/2021 14:47	MH	10/20/2021 14:47	MH	N

Surrogates

Parameter	Units	%Spike Recovery	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	98.7	70 - 130	
4-Bromofluorobenzene (S)	%	102.0	70 - 130	



Analytical Results

Client ID: TX1120014	Date Collected: 10/14/2021 10:53	Matrix: Drinking Water
Lab ID: Q2128874016	Date Received: 10/15/2021 08:53	Sample Type: FB
Sample ID: 2104722	Location: MT ZION PLANT - STANDPIPE	
Project ID: DRINKING WATER PROGRAM	Facility: EP002	
	Sample Point: TRT-TAP	

Sample results did not require analysis of the Field Blank sample.

Quality Control Results

QC Batch: MET/8808
Preparation Method: E245.1 Mercury Water
Associated Lab IDs: Q2128874006, Q2128874007

Analysis Method: E245.1 Mercury Water

Laboratory Fortified Blank (1674253); Lab Fortified Blank Duplicate (1674254)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Mercury Total	mg/L	0.002	0.002	100.	85 - 115	0.0021	104.0	3.44	20	

Laboratory Fortified Matrix (1674255); Lab Fortified Matrix Duplicate (1674256); Original: Q2128845010

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Mercury Total	mg/L	0.002	0.0021	107.	70 - 130	0.0022	110.0	2.31	20	

Laboratory Reagent Blank(1674252)

Parameter	Units	Results	MRL	LOD	Qualifier
Mercury Total	mg/L	<0.000200	0.0002	0.0002	

Method Reporting Limit Check (1674243)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Mercury Total	mg/L	0.0002	0.0002	102.	50 - 150	

Quality Control Results

QC Batch: MET/8809
Preparation Method: E200.7 Metals, Trace Elements
Associated Lab IDs: Q2128874006, Q2128874007

Analysis Method: E200.7 Metals, Trace Elements

Method Reporting Limit Check (1674536)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Calcium Total	mg/L	0.2	0.228	114.	50 - 150	
Magnesium Total	mg/L	0.2	0.196	97.9	50 - 150	
Potassium Total	mg/L	0.2	0.197	98.3	50 - 150	
Sodium Total	mg/L	0.2	0.209	105.	50 - 150	

Method Reporting Limit Check (1674537)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Iron Total	mg/L	0.05	0.0614	123.	50 - 150	

Quality Control Results

QC Batch: MET/8809 **Analysis Method:** E200.7 Metals, Trace Elements
Preparation Method: E200.7 Prep
Associated Lab IDs: Q2128874006, Q2128874007

Laboratory Fortified Matrix (1674417); Lab Fortified Matrix Duplicate (1674418); Original: Q2128641022

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.	19.8	92.2	70 - 130	19.7	92.0	0.506	20	
Iron Total	mg/L	1.	1.02	102.	70 - 130	1.02	102.0	0.0	20	
Magnesium Total	mg/L	10.	11.2	96.8	70 - 130	11.2	96.4	0.0	20	
Potassium Total	mg/L	10.	10.2	89.	70 - 130	10.1	88.3	0.985	20	
Sodium Total	mg/L	10.	93.8	75.3	70 - 130	93.7	73.8	0.107	20	

Laboratory Reagent Blank(1674412)

Parameter	Units	Results	MRL	LOD	Qualifier
Calcium Total	mg/L	<0.200	0.2	0.07	
Iron Total	mg/L	<0.0500	0.05	0.02	
Magnesium Total	mg/L	<0.200	0.2	0.07	
Potassium Total	mg/L	<0.200	0.2	0.07	
Sodium Total	mg/L	<0.200	0.2	0.07	

Laboratory Fortified Blank (1674413); Lab Fortified Blank Duplicate (1674414)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Calcium Total	mg/L	10.	9.68	96.8	85 - 115	9.54	95.4	1.46	20	
Iron Total	mg/L	1.	1.08	108.	85 - 115	1.05	105.0	2.82	20	
Magnesium Total	mg/L	10.	9.99	99.9	85 - 115	9.78	97.8	2.12	20	
Potassium Total	mg/L	10.	9.09	90.9	85 - 115	8.96	89.6	1.44	20	
Sodium Total	mg/L	10.	9.47	94.7	85 - 115	9.33	93.3	1.49	20	

Quality Control Results

QC Batch: MET/8810
Preparation Method: E200.8, ICP-MS
Associated Lab IDs: Q2128874006, Q2128874007

Analysis Method: E200.8, ICP-MS

Method Reporting Limit Check (1674733)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Zinc Total	mg/L	0.005	0.0049	98.5	50 - 150	

Method Reporting Limit Check (1674732)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Antimony Total	mg/L	0.001	0.0012	119.	50 - 150	
Arsenic Total	mg/L	0.001	0.001	103.	50 - 150	
Barium Total	mg/L	0.001	0.0011	106.	50 - 150	
Beryllium Total	mg/L	0.001	0.001	105.	50 - 150	
Cadmium Total	mg/L	0.001	0.001	104.	50 - 150	
Copper Total	mg/L	0.001	0.0011	110.	50 - 150	
Lead Total	mg/L	0.001	0.0011	105.	50 - 150	
Nickel Total	mg/L	0.001	0.0011	107.	50 - 150	
Selenium Total	mg/L	0.005	0.0053	106.	50 - 150	
Silver Total	mg/L	0.001	0.001	105.	50 - 150	
Thallium Total	mg/L	0.001	0.0011	107.	50 - 150	

Quality Control Results

QC Batch: MET/8810
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2128874006, Q2128874007

Analysis Method: E200.8, ICP-MS

Laboratory Reagent Blank(1674419)

Parameter	Units	Results	MRL	LOD	Qualifier
Aluminum Total	mg/L	<0.00500	0.005	0.002	
Antimony Total	mg/L	<0.00100	0.001	0.0004	
Arsenic Total	mg/L	<0.00100	0.001	0.0004	
Barium Total	mg/L	<0.00100	0.001	0.0004	
Beryllium Total	mg/L	<0.00100	0.001	0.0004	
Cadmium Total	mg/L	<0.00100	0.001	0.0004	
Chromium Total	mg/L	<0.00100	0.001	0.0004	
Copper Total	mg/L	<0.00100	0.001	0.0004	
Lead Total	mg/L	<0.00100	0.001	0.0004	
Manganese Total	mg/L	<0.00100	0.001	0.0004	
Nickel Total	mg/L	<0.00100	0.001	0.0004	
Selenium Total	mg/L	<0.00500	0.005	0.002	
Silver Total	mg/L	<0.00100	0.001	0.0004	
Thallium Total	mg/L	<0.00100	0.001	0.0002	
Zinc Total	mg/L	<0.00500	0.005	0.002	

Laboratory Fortified Matrix (1674424); Lab Fortified Matrix Duplicate (1674425); Original: Q2128658014

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Aluminum Total	mg/L	0.05	0.051	102.	70 - 130	0.052	104.0	1.94	20	
Antimony Total	mg/L	0.05	0.052	104.	70 - 130	0.052	104.0	0.0	20	
Arsenic Total	mg/L	0.05	0.049	98.1	70 - 130	0.048	96.3	2.06	20	
Barium Total	mg/L	0.05	0.057	105.	70 - 130	0.057	105.0	0.699	20	
Beryllium Total	mg/L	0.05	0.051	101.	70 - 130	0.049	98.0	4.0	20	
Cadmium Total	mg/L	0.05	0.051	102.	70 - 130	0.05	101.0	1.98	20	
Chromium Total	mg/L	0.05	0.049	97.3	70 - 130	0.049	97.7	0.0	20	
Copper Total	mg/L	0.05	0.049	93.1	70 - 130	0.049	92.8	0.0	20	
Lead Total	mg/L	0.05	0.052	103.	70 - 130	0.051	102.0	1.17	20	
Manganese Total	mg/L	0.05	0.048	95.7	70 - 130	0.048	96.4	0.209	20	
Nickel Total	mg/L	0.05	0.049	97.9	70 - 130	0.049	97.3	0.0	20	
Selenium Total	mg/L	0.25	0.24	97.3	70 - 130	0.24	96.2	0.0	20	
Silver Total	mg/L	0.05	0.047	94.	70 - 130	0.047	93.8	0.0	20	
Thallium Total	mg/L	0.05	0.05	101.	70 - 130	0.05	101.0	0.0	20	
Zinc Total	mg/L	0.05	0.048	96.7	70 - 130	0.049	97.0	2.06	20	

Laboratory Fortified Blank (1674420); Lab Fortified Blank Duplicate (1674421)

Quality Control Results

QC Batch: MET/8810 **Analysis Method:** E200.8, ICP-MS
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2128874006, Q2128874007

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Aluminum Total	mg/L	0.05	0.056	111.	85 - 115	0.05	100.0	11.3	20	
Antimony Total	mg/L	0.05	0.049	97.3	85 - 115	0.049	97.6	0.0	20	
Arsenic Total	mg/L	0.05	0.048	96.1	85 - 115	0.048	95.4	0.0	20	
Barium Total	mg/L	0.05	0.05	101.	85 - 115	0.05	99.9	0.797	20	
Beryllium Total	mg/L	0.05	0.049	97.9	85 - 115	0.049	97.9	0.0	20	
Cadmium Total	mg/L	0.05	0.05	99.7	85 - 115	0.05	100.0	0.0	20	
Chromium Total	mg/L	0.05	0.05	99.9	85 - 115	0.05	99.5	0.0	20	
Copper Total	mg/L	0.05	0.049	97.3	85 - 115	0.049	97.4	0.0	20	
Lead Total	mg/L	0.05	0.05	99.6	85 - 115	0.05	99.5	0.401	20	
Manganese Total	mg/L	0.05	0.048	96.9	85 - 115	0.048	96.6	1.04	20	
Nickel Total	mg/L	0.05	0.051	101.	85 - 115	0.05	101.0	1.98	20	
Selenium Total	mg/L	0.25	0.24	96.6	85 - 115	0.24	96.5	0.0	20	
Silver Total	mg/L	0.05	0.049	98.5	85 - 115	0.049	98.7	0.0	20	
Thallium Total	mg/L	0.05	0.049	98.7	85 - 115	0.049	98.5	0.0	20	
Zinc Total	mg/L	0.05	0.049	97.7	85 - 115	0.049	97.3	0.0	20	

Quality Control Results

QC Batch: MET/8812
Preparation Method: E200.8, ICP-MS
Associated Lab IDs: Q2128874006, Q2128874007

Analysis Method: E200.8, ICP-MS

Method Reporting Limit Check (1675317)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Aluminum Total	mg/L	0.005	0.0045	89.8	50 - 150	

Method Reporting Limit Check (1675316)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chromium Total	mg/L	0.001	0.001	99.4	50 - 150	
Manganese Total	mg/L	0.001	0.001	104.	50 - 150	

Quality Control Results

QC Batch: MET/8812 **Analysis Method:** E200.8, ICP-MS
Preparation Method: E200.8, ICP-MS Prep
Associated Lab IDs: Q2128874006, Q2128874007

Laboratory Fortified Matrix (1674424); Lab Fortified Matrix Duplicate (1674425); Original: Q2128658014

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Aluminum Total	mg/L	0.05	0.051	102.	70 - 130	0.052	104.0	1.94	20	
Antimony Total	mg/L	0.05	0.052	104.	70 - 130	0.052	104.0	0.0	20	
Arsenic Total	mg/L	0.05	0.049	98.1	70 - 130	0.048	96.3	2.06	20	
Barium Total	mg/L	0.05	0.057	105.	70 - 130	0.057	105.0	0.699	20	
Beryllium Total	mg/L	0.05	0.051	101.	70 - 130	0.049	98.0	4.0	20	
Cadmium Total	mg/L	0.05	0.051	102.	70 - 130	0.05	101.0	1.98	20	
Chromium Total	mg/L	0.05	0.049	97.3	70 - 130	0.049	97.7	0.0	20	
Copper Total	mg/L	0.05	0.049	93.1	70 - 130	0.049	92.8	0.0	20	
Lead Total	mg/L	0.05	0.052	103.	70 - 130	0.051	102.0	1.17	20	
Manganese Total	mg/L	0.05	0.048	95.7	70 - 130	0.048	96.4	0.209	20	
Nickel Total	mg/L	0.05	0.049	97.9	70 - 130	0.049	97.3	0.0	20	
Selenium Total	mg/L	0.25	0.24	97.3	70 - 130	0.24	96.2	0.0	20	
Silver Total	mg/L	0.05	0.047	94.	70 - 130	0.047	93.8	0.0	20	
Thallium Total	mg/L	0.05	0.05	101.	70 - 130	0.05	101.0	0.0	20	
Zinc Total	mg/L	0.05	0.048	96.7	70 - 130	0.049	97.0	2.06	20	

Quality Control Results

QC Batch: ORG/10457 Analysis Method: E504.1 GC
Preparation Method: E504.1 GC
Associated Lab IDs: Q2128874001, Q2128874004

Laboratory Fortified Blank (1674129)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
1,2-Dibromoethane	ug/L	0.25	0.22	89.6	70 - 130	
1,2,3-Trichloropropane	ug/L	0.25	0.26	106.	70 - 130	
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.25	98.4	70 - 130	

Laboratory Fortified Blank Low (1674130)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
1,2-Dibromoethane	ug/L	0.02	0.02	110.	60 - 140	
1,2,3-Trichloropropane	ug/L	0.02	0.02	125.	60 - 140	
1,2-Dibromo-3-chloropropane	ug/L	0.02	0.02	120.	60 - 140	

Laboratory Fortified Blank (1674126); Lab Fortified Blank Duplicate (1674127)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
1,2-Dibromoethane	ug/L	0.25	0.22	87.6	70 - 130	0.22	89.6	0.0	30	
1,2,3-Trichloropropane	ug/L	0.25	0.28	110.	70 - 130	0.26	106.0	7.41	30	
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.26	105.	70 - 130	0.25	98.4	3.92	30	

Method Reporting Limit Check (1674122)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
1,2-Dibromoethane	ug/L	0.02	0.02	95.	50 - 150	
1,2,3-Trichloropropane	ug/L	0.02	0.03	140.	50 - 150	
1,2-Dibromo-3-chloropropane	ug/L	0.02	0.02	105.	50 - 150	

Laboratory Reagent Blank(1674121)

Parameter	Units	Results	MRL	LOD	Qualifier
1,2-Dibromoethane	ug/L	<0.01	0.01	0.01	
1,2,3-Trichloropropane	ug/L	<0.02	0.02	0.01	
1,2-Dibromo-3-chloropropane	ug/L	<0.02	0.02	0.01	

Laboratory Fortified Matrix (1674128); Original: Q2128809001

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
1,2,3-Trichloropropane	ug/L	0.24	0.27	109.	65 - 135	
1,2-Dibromoethane	ug/L	0.24	0.24	97.6	65 - 135	
1,2-Dibromo-3-chloropropane	ug/L	0.24	0.25	104.	65 - 135	

Quality Control Results

QC Batch: ORG/10473
Preparation Method: 552.2 Haloacetic Acids by GC
Associated Lab IDs: Q2128874011, Q2128874012

Analysis Method: 552.2 Haloacetic Acids by GC

Laboratory Fortified Matrix (1676615); Original: Q2129038001

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	100.	77.8	77.8	70 - 130	
Monobromoacetic Acid	ug/L	100.	78.3	77.2	70 - 130	
Dichloroacetic Acid	ug/L	100.	93.1	77.4	70 - 130	
Trichloroacetic acid	ug/L	100.	81.8	77.8	70 - 130	
Bromochloroacetic Acid	ug/L	100.	92.4	78.4	70 - 130	
Dibromoacetic Acid	ug/L	100.	84.3	76.4	70 - 130	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	68	70 - 130	S

Method Reporting Limit Check (1676599)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	1.	0.9	90.	50 - 150	
Monobromoacetic Acid	ug/L	1.	1.1	110.	50 - 150	
Dichloroacetic Acid	ug/L	1.	1.2	120.	50 - 150	
Trichloroacetic acid	ug/L	1.	1.3	130.	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)	%	99.60	50 - 150	

Laboratory Fortified Matrix (1676612); Original: Q2128873002

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Monochloroacetic Acid	ug/L	100.	76.4	76.4	70 - 130	
Monobromoacetic Acid	ug/L	100.	77.8	77.8	70 - 130	
Dichloroacetic Acid	ug/L	100.	89.8	79.9	70 - 130	
Trichloroacetic acid	ug/L	100.	94.5	87.8	70 - 130	
Bromochloroacetic Acid	ug/L	100.	85.8	82.5	70 - 130	
Dibromoacetic Acid	ug/L	100.	83.3	83.3	70 - 130	

Quality Control Results

QC Batch: ORG/10473
Preparation Method: 552.2 Haloacetic Acids by GC
Associated Lab IDs: Q2128874011, Q2128874012

Analysis Method: 552.2 Haloacetic Acids by GC

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
2,3-Dibromopropionic acid (S)	%	85.60	70 - 130	

Laboratory Reagent Blank(1676596)

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)	%	95	70 - 130	

Laboratory Fortified Blank (1676610); Lab Fortified Blank Duplicate (1676611)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Monochloroacetic Acid	ug/L	50.	41.4	82.8	70 - 130	42.4	84.8	2.39	30	
Monobromoacetic Acid	ug/L	50.	39.5	79.	70 - 130	40.4	80.8	2.25	30	
Dichloroacetic Acid	ug/L	50.	41.7	83.4	70 - 130	41.6	83.2	0.24	30	
Trichloroacetic acid	ug/L	50.	43.5	87.	70 - 130	41.0	82.0	5.92	30	
Bromochloroacetic Acid	ug/L	50.	40.2	80.4	70 - 130	38.9	77.8	3.29	30	
Dibromoacetic Acid	ug/L	50.	40.4	80.8	70 - 130	38.2	76.4	5.6	30	

Laboratory Fortified Blank (1676613); Lab Fortified Blank Duplicate (1676614)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Monochloroacetic Acid	ug/L	50.	42.4	84.8	70 - 130	43.0	86.0	1.41	30	
Monobromoacetic Acid	ug/L	50.	40.4	80.8	70 - 130	40.7	81.4	0.74	30	
Dichloroacetic Acid	ug/L	50.	41.6	83.2	70 - 130	41.9	83.8	0.719	30	
Trichloroacetic acid	ug/L	50.	41.	82.	70 - 130	41.1	82.2	0.244	30	
Bromochloroacetic Acid	ug/L	50.	38.9	77.8	70 - 130	39.4	78.8	1.28	30	
Dibromoacetic Acid	ug/L	50.	38.2	76.4	70 - 130	38.8	77.6	1.56	30	

Quality Control Results

QC Batch: ORG/10474
Preparation Method: E515.4 Herbicides by GC
Associated Lab IDs: Q2128874003, Q2128874010

Analysis Method: E515.4 Herbicides by GC

Method Reporting Limit Check (1676867)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Dalapon	ug/L	2.5	3.05	122.	50 - 150	
3,5-Dichlorobenzoic acid	ug/L	1.25	1.48	118.	50 - 150	
Dicamba	ug/L	1.25	1.58	126.	50 - 150	
Dichlorprop	ug/L	2.5	2.87	115.	50 - 150	
2,4-D	ug/L	2.5	2.93	117.	50 - 150	
Pentachlorophenol	ug/L	0.25	0.253	101.	50 - 150	
2,4,5-TP	ug/L	0.625	0.648	104.	50 - 150	
Chloramben	ug/L	1.25	1.26	100.	50 - 150	
2,4,5-T	ug/L	0.625	0.681	109.	50 - 150	
2,4-DB	ug/L	2.5	2.88	115.	50 - 150	
Dinoseb	ug/L	2.5	2.66	106.	50 - 150	
Bentazon	ug/L	2.5	3.06	123.	50 - 150	
Picloram	ug/L	2.5	2.66	106.	50 - 150	
Acifluorfen	ug/L	1.25	1.22	97.5	50 - 150	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
DCCA (S)	%	87.90	50 - 150	

Laboratory Reagent Blank(1676868)

Parameter	Units	Results	MRL	LOD	Qualifier
Dalapon	ug/L	<1.00	1.0	1.0	
3,5-Dichlorobenzoic acid	ug/L	<1.25	1.25	0.625	
Dicamba	ug/L	<1.25	1.25	0.625	
Dichlorprop	ug/L	<2.50	2.5	1.25	
2,4-D	ug/L	<0.100	0.1	0.1	
Pentachlorophenol	ug/L	<0.0400	0.04	0.04	
2,4,5-TP	ug/L	<0.200	0.2	0.2	
Chloramben	ug/L	<1.25	1.25	0.625	
2,4,5-T	ug/L	<0.625	0.625	0.313	
2,4-DB	ug/L	<2.50	2.5	1.25	
Dinoseb	ug/L	<0.200	0.2	0.2	
Bentazon	ug/L	<2.50	2.5	1.25	
Picloram	ug/L	<0.100	0.1	0.1	
Acifluorfen	ug/L	<1.25	1.25	0.625	

Quality Control Results

QC Batch: ORG/10474
Preparation Method: E515.4 Herbicides by GC
Associated Lab IDs: Q2128874003, Q2128874010

Analysis Method: E515.4 Herbicides by GC

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
DCPA (S)	%	94.30	70 - 130	

Laboratory Fortified Blank H (1676872)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Dalapon	ug/L	30.	30.1	100.	70 - 130	
3,5-Dichlorobenzoic acid	ug/L	15.	14.7	97.7	70 - 130	
Dicamba	ug/L	15.	14.6	97.5	70 - 130	
Dichlorprop	ug/L	30.	29.3	97.8	70 - 130	
2,4-D	ug/L	30.	26.8	89.4	70 - 130	
Pentachlorophenol	ug/L	3.	3.01	100.	70 - 130	
2,4,5-TP	ug/L	7.5	7.7	103.	70 - 130	
Chloramben	ug/L	15.	14.7	97.7	70 - 130	
2,4,5-T	ug/L	7.5	7.24	96.5	70 - 130	
2,4-DB	ug/L	30.	25.1	83.6	70 - 130	
Dinoseb	ug/L	30.	26.4	88.1	70 - 130	
Bentazon	ug/L	30.	28.5	95.1	70 - 130	
Picloram	ug/L	30.	26.6	88.8	70 - 130	
Acifluorfen	ug/L	15.	11.6	77.4	70 - 130	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
DCPA (S)	%	80.20	70 - 130	

Laboratory Fortified Blank Mid (1676871)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Dalapon	ug/L	10.	9.8	98.	70 - 130	
3,5-Dichlorobenzoic acid	ug/L	5.	5.03	101.	70 - 130	
Dicamba	ug/L	5.	5.14	103.	70 - 130	
Dichlorprop	ug/L	10.	10.2	102.	70 - 130	
2,4-D	ug/L	10.	9.28	92.8	70 - 130	
Pentachlorophenol	ug/L	1.	0.964	96.4	70 - 130	
2,4,5-TP	ug/L	2.5	2.4	95.9	70 - 130	
Chloramben	ug/L	5.	4.35	87.	70 - 130	
2,4,5-T	ug/L	2.5	2.27	90.9	70 - 130	
2,4-DB	ug/L	10.	10.3	103.	70 - 130	

Quality Control Results

QC Batch: ORG/10474 **Analysis Method:** E515.4 Herbicides by GC
Preparation Method: E515.4 Herbicides by GC
Associated Lab IDs: Q2128874003, Q2128874010

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Dinoseb	ug/L	10.	7.14	71.4	70 - 130	
Bentazon	ug/L	10.	10.2	102.	70 - 130	
Picloram	ug/L	10.	9.71	97.1	70 - 130	
Acifluorfen	ug/L	5.	3.67	73.4	70 - 130	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
DCPA (S)	%	79.40	70 - 130	

Laboratory Fortified Matrix (1676869); Lab Fortified Matrix Duplicate (1676870); Original: Q2128874003

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Dalapon	ug/L	30.	27.3	91.	70 - 130	27.7	92.4	1.45	30	
3,5-Dichlorobenzoic acid	ug/L	15.	14.5	96.7	70 - 130	14.2	95.0	2.09	30	
Dicamba	ug/L	15.	14.8	98.5	70 - 130	14.7	97.7	0.678	30	
Dichlorprop	ug/L	30.	27.8	92.8	70 - 130	28.0	93.3	0.717	30	
2,4-D	ug/L	30.	28.5	95.	70 - 130	28.0	93.4	1.77	30	
Pentachlorophenol	ug/L	3.	2.9	96.6	70 - 130	2.87	95.6	1.04	30	
2,4,5-TP	ug/L	7.5	7.36	98.1	70 - 130	7.27	97.0	1.23	30	
Chloramben	ug/L	15.	14.4	96.3	70 - 130	13.7	91.3	4.98	30	
2,4,5-T	ug/L	7.5	7.25	96.7	70 - 130	7.05	94.0	2.8	30	
2,4-DB	ug/L	30.	27.9	93.1	70 - 130	27.6	91.9	1.08	30	
Dinoseb	ug/L	30.	29.1	97.	70 - 130	25.5	85.1	13.2	30	
Bentazon	ug/L	30.	26.2	87.2	70 - 130	25.6	85.2	2.32	30	
Picloram	ug/L	30.	29.	96.5	70 - 130	28.2	94.1	2.8	30	
Acifluorfen	ug/L	15.	13.3	88.8	70 - 130	12.8	85.1	3.83	30	

Laboratory Fortified Blank Low (1676865)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Dalapon	ug/L	2.5	3.13	125.	50 - 150	
3,5-Dichlorobenzoic acid	ug/L	1.25	1.27	102.	50 - 150	
Dicamba	ug/L	1.25	1.37	110.	50 - 150	
Dichlorprop	ug/L	2.5	2.81	112.	50 - 150	
2,4-D	ug/L	2.5	2.85	114.	50 - 150	
Pentachlorophenol	ug/L	0.25	0.247	98.6	50 - 150	
2,4,5-TP	ug/L	0.625	0.635	102.	50 - 150	
Chloramben	ug/L	1.25	1.1	87.7	50 - 150	

Quality Control Results

QC Batch: ORG/10474
Preparation Method: E515.4 Herbicides by GC
Associated Lab IDs: Q2128874003, Q2128874010

Analysis Method: E515.4 Herbicides by GC

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
2,4,5-T	ug/L	0.625	0.657	105.	50 - 150	
2,4-DB	ug/L	2.5	2.7	108.	50 - 150	
Dinoseb	ug/L	2.5	3.25	130.	50 - 150	
Bentazon	ug/L	2.5	2.89	115.	50 - 150	
Picloram	ug/L	2.5	2.56	103.	50 - 150	
Acifluorfen	ug/L	1.25	1.65	132.	50 - 150	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
DCPA (S)	%	81.20	50 - 150	

Quality Control Results

QC Batch: OVOL/5454
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874011, Q2128874012

Analysis Method: E524.2 Volatiles by GC/MS

Laboratory Fortified Blank (1674685); Lab Fortified Blank Duplicate (1674686)

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Chloroform	ug/L	50.	44.2	88.5	70 - 130	43.7	87.3	1.14	30	
Bromodichloromethane	ug/L	50.	45.8	91.6	70 - 130	44.9	89.9	1.98	30	
Dibromochloromethane	ug/L	50.	46.2	92.3	70 - 130	45.8	91.5	0.87	30	
Bromoform	ug/L	50.	44.9	89.8	70 - 130	44.6	89.2	0.67	30	

Method Reporting Limit Check (1674683)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloroform	ug/L	1.	1.15	115.	50 - 150	
Bromodichloromethane	ug/L	1.	1.17	117.	50 - 150	
Dibromochloromethane	ug/L	1.	1.1	110.	50 - 150	
Bromoform	ug/L	1.	1.02	102.	50 - 150	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	86.90	50 - 150	
4-Bromofluorobenzene (S)	%	89.40	50 - 150	

Laboratory Reagent Blank(1674687)

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)	%	88.90	70 - 130	
4-Bromofluorobenzene (S)	%	89.30	70 - 130	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Duplicate (1675024); Original Q2128808002

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Dichlorodifluoromethane	ug/L	0.0	0.0	0.0	30	
Chloromethane	ug/L	0.0	0.0	0.0	30	
Vinyl chloride	ug/L	0.0	0.0	0.0	30	
Bromomethane	ug/L	0.0	0.0	0.0	30	
Chloroethane	ug/L	0.0	0.0	0.0	30	
4-Chlorotoluene	ug/L	0.0	0.0	0.0	30	
Trichlorofluoromethane	ug/L	0.0	0.0	0.0	30	
1,1-Dichloroethene	ug/L	0.0	0.0	0.0	30	
Acetone	ug/L	0.0	0.0	0.0	30	
Methyl iodide	ug/L	0.0	0.0	0.0	30	
Carbon disulfide	ug/L	0.0	0.0	0.0	30	
Methylene chloride	ug/L	0.0	0.0	0.0	30	
trans-1,2-Dichloroethene	ug/L	0.0	0.0	0.0	30	
Acrylonitrile	ug/L	0.0	0.0	0.0	30	
tert-Butyl methyl ether (MTBE)	ug/L	0.0	0.0	0.0	30	
1,1-Dichloroethane	ug/L	0.0	0.0	0.0	30	
Vinyl acetate	ug/L	0.0	0.0	0.0	30	
2,2-Dichloropropane	ug/L	0.0	0.0	0.0	30	
2-Butanone	ug/L	0.0	0.0	0.0	30	
cis-1,2-Dichloroethene	ug/L	0.0	0.0	0.0	30	
Bromochloromethane	ug/L	0.0	0.0	0.0	30	
Tetrahydrofuran	ug/L	0.0	0.0	0.0	30	
Chloroform	ug/L	0.0	0.0	0.0	30	
1,1,1-Trichloroethane	ug/L	0.0	0.0	0.0	30	
1,1-Dichloropropene	ug/L	0.0	0.0	0.0	30	
Carbon tetrachloride	ug/L	0.0	0.0	0.0	30	
1,2-Dichloroethane	ug/L	0.0	0.0	0.0	30	
Benzene	ug/L	0.0	0.0	0.0	30	
Trichloroethene	ug/L	0.0	0.0	0.0	30	
1,2-Dichloropropane	ug/L	0.0	0.0	0.0	30	
Methyl methacrylate	ug/L	0.0	0.0	0.0	30	
Dibromomethane	ug/L	0.0	0.0	0.0	30	
Bromodichloromethane	ug/L	0.0	0.0	0.0	30	
cis-1,3-Dichloropropene	ug/L	0.0	0.0	0.0	30	
4-Methyl-2-pentanone	ug/L	0.0	0.0	0.0	30	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Toluene	ug/L	0.0	0.0	0.0	30	
trans-1,3-Dichloropropene	ug/L	0.0	0.0	0.0	30	
Ethyl methacrylate	ug/L	0.0	0.0	0.0	30	
1,1,2-Trichloroethane	ug/L	0.0	0.0	0.0	30	
Tetrachloroethene	ug/L	0.0	0.0	0.0	30	
1,3-Dichloropropane	ug/L	0.0	0.0	0.0	30	
2-Hexanone	ug/L	0.0	0.0	0.0	30	
Dibromochloromethane	ug/L	0.0	0.0	0.0	30	
Chlorobenzene	ug/L	0.0	0.0	0.0	30	
1,1,1,2-Tetrachloroethane	ug/L	0.0	0.0	0.0	30	
Ethyl Benzene	ug/L	0.0	0.0	0.0	30	
m,p-Xylene	ug/L	0.0	0.0	0.0	30	
o-Xylene	ug/L	0.0	0.0	0.0	30	
Styrene	ug/L	0.0	0.0	0.0	30	
Bromoform	ug/L	0.0	0.0	0.0	30	
Isopropylbenzene (Cumene)	ug/L	0.0	0.0	0.0	30	
1,1,2,2-Tetrachloroethane	ug/L	0.0	0.0	0.0	30	
Bromobenzene	ug/L	0.0	0.0	0.0	30	
1,2,3-Trichlorobenzene	ug/L	0.0	0.0	0.0	30	
n-Propylbenzene	ug/L	0.0	0.0	0.0	30	
2-Chlorotoluene	ug/L	0.0	0.0	0.0	30	
1,3,5-Trimethylbenzene	ug/L	0.0	0.0	0.0	30	
tert-Butylbenzene	ug/L	0.0	0.0	0.0	30	
1,2,4-Trimethylbenzene	ug/L	0.0	0.0	0.0	30	
sec-Butylbenzene	ug/L	0.0	0.0	0.0	30	
1,3-Dichlorobenzene	ug/L	0.0	0.0	0.0	30	
4-Isopropyltoluene	ug/L	0.0	0.0	0.0	30	
1,4-Dichlorobenzene	ug/L	0.0	0.0	0.0	30	
n-Butylbenzene	ug/L	0.0	0.0	0.0	30	
1,2-Dichlorobenzene	ug/L	0.0	0.0	0.0	30	
1,2,4-Trichlorobenzene	ug/L	0.0	0.0	0.0	30	
Hexachlorobutadiene	ug/L	0.0	0.0	0.0	30	
Naphthalene	ug/L	0.0	0.0	0.0	30	
1,2,3-Trichloropropane	ug/L	0.0	0.0	0.0	30	
Xylene (total)	ug/L	0.0	0.0	0.0		

Method Reporting Limit Check (1675022)

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Acetone	ug/L	5.	5.14	103.	50 - 150	
2-Butanone	ug/L	5.	4.81	96.2	50 - 150	
Tetrahydrofuran	ug/L	5.	4.93	98.6	50 - 150	
Dichlorodifluoromethane	ug/L	0.5	0.58	116.	50 - 150	
Chloromethane	ug/L	0.5	0.6	120.	50 - 150	
Vinyl chloride	ug/L	0.5	0.52	104.	50 - 150	
Bromomethane	ug/L	0.5	0.52	104.	50 - 150	
Chloroethane	ug/L	0.5	0.52	104.	50 - 150	
4-Chlorotoluene	ug/L	0.5	0.59	118.	50 - 150	
Trichlorofluoromethane	ug/L	0.5	0.5	100.	50 - 150	
1,1-Dichloroethene	ug/L	0.5	0.59	118.	50 - 150	
Methyl iodide	ug/L	0.5	0.6	120.	50 - 150	
Carbon disulfide	ug/L	0.5	0.51	102.	50 - 150	
Methylene chloride	ug/L	0.5	0.61	122.	50 - 150	
trans-1,2-Dichloroethene	ug/L	0.5	0.56	112.	50 - 150	
Acrylonitrile	ug/L	0.5	0.53	106.	50 - 150	
tert-Butyl methyl ether (MTBE)	ug/L	0.5	0.53	106.	50 - 150	
1,1-Dichloroethane	ug/L	0.5	0.63	126.	50 - 150	
Vinyl acetate	ug/L	0.5	0.61	122.	50 - 150	
2,2-Dichloropropane	ug/L	0.5	0.61	122.	50 - 150	
cis-1,2-Dichloroethene	ug/L	0.5	0.61	122.	50 - 150	
Bromochloromethane	ug/L	0.5	0.55	110.	50 - 150	
Chloroform	ug/L	0.5	0.58	116.	50 - 150	
1,1,1-Trichloroethane	ug/L	0.5	0.59	118.	50 - 150	
1,1-Dichloropropene	ug/L	0.5	0.57	114.	50 - 150	
Carbon tetrachloride	ug/L	0.5	0.57	114.	50 - 150	
1,2-Dichloroethane	ug/L	0.5	0.56	112.	50 - 150	
Benzene	ug/L	0.5	0.57	114.	50 - 150	
Trichloroethene	ug/L	0.5	0.56	112.	50 - 150	
1,2-Dichloropropane	ug/L	0.5	0.6	120.	50 - 150	
Methyl methacrylate	ug/L	0.5	0.51	102.	50 - 150	
Dibromomethane	ug/L	0.5	0.54	108.	50 - 150	
Bromodichloromethane	ug/L	0.5	0.57	114.	50 - 150	
cis-1,3-Dichloropropene	ug/L	0.5	0.48	96.	50 - 150	
4-Methyl-2-pentanone	ug/L	0.5	0.56	112.	50 - 150	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Toluene	ug/L	0.5	0.56	112.	50 - 150	
trans-1,3-Dichloropropene	ug/L	0.5	0.47	94.	50 - 150	
Ethyl methacrylate	ug/L	0.5	0.5	100.	50 - 150	
1,1,2-Trichloroethane	ug/L	0.5	0.58	116.	50 - 150	
Tetrachloroethene	ug/L	0.5	0.58	116.	50 - 150	
1,3-Dichloropropane	ug/L	0.5	0.56	112.	50 - 150	
2-Hexanone	ug/L	0.5	0.58	116.	50 - 150	
Dibromochloromethane	ug/L	0.5	0.53	106.	50 - 150	
Chlorobenzene	ug/L	0.5	0.59	118.	50 - 150	
1,1,1,2-Tetrachloroethane	ug/L	0.5	0.52	104.	50 - 150	
Ethyl Benzene	ug/L	0.5	0.54	108.	50 - 150	
m,p-Xylene	ug/L	1.	1.11	111.	50 - 150	
o-Xylene	ug/L	0.5	0.53	106.	50 - 150	
Styrene	ug/L	0.5	0.5	100.	50 - 150	
Bromoform	ug/L	0.5	0.49	98.	50 - 150	
Isopropylbenzene (Cumene)	ug/L	0.5	0.55	110.	50 - 150	
1,1,2,2-Tetrachloroethane	ug/L	0.5	0.58	116.	50 - 150	
Bromobenzene	ug/L	0.5	0.59	118.	50 - 150	
1,2,3-Trichloropropane	ug/L	0.5	0.53	106.	50 - 150	
n-Propylbenzene	ug/L	0.5	0.57	114.	50 - 150	
2-Chlorotoluene	ug/L	0.5	0.6	120.	50 - 150	
1,3,5-Trimethylbenzene	ug/L	0.5	0.52	104.	50 - 150	
tert-Butylbenzene	ug/L	0.5	0.56	112.	50 - 150	
1,2,4-Trimethylbenzene	ug/L	0.5	0.53	106.	50 - 150	
sec-Butylbenzene	ug/L	0.5	0.54	108.	50 - 150	
1,3-Dichlorobenzene	ug/L	0.5	0.6	120.	50 - 150	
4-Isopropyltoluene	ug/L	0.5	0.53	106.	50 - 150	
1,4-Dichlorobenzene	ug/L	0.5	0.6	120.	50 - 150	
n-Butylbenzene	ug/L	0.5	0.59	118.	50 - 150	
1,2-Dichlorobenzene	ug/L	0.5	0.59	118.	50 - 150	
1,2,4-Trichlorobenzene	ug/L	0.5	0.6	120.	50 - 150	
Hexachlorobutadiene	ug/L	0.5	0.57	114.	50 - 150	
Naphthalene	ug/L	0.5	0.57	114.	50 - 150	
1,2,3-Trichlorobenzene	ug/L	0.5	0.6	120.	50 - 150	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	99	50 - 150	
4-Bromofluorobenzene (S)	%	102	50 - 150	

Laboratory Fortified Blank (1675021)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Dichlorodifluoromethane	ug/L	20.	18.6	92.8	70 - 130	
Chloromethane	ug/L	20.	18.6	92.8	70 - 130	
Vinyl chloride	ug/L	20.	17.6	88.	70 - 130	
Bromomethane	ug/L	20.	17.8	88.8	70 - 130	
Chloroethane	ug/L	20.	18.8	94.	70 - 130	
4-Chlorotoluene	ug/L	20.	21.	105.	70 - 130	
Trichlorofluoromethane	ug/L	20.	17.8	89.	70 - 130	
1,1-Dichloroethene	ug/L	20.	20.4	102.	70 - 130	
Acetone	ug/L	20.	21.7	108.	70 - 130	
Methyl iodide	ug/L	20.	21.2	106.	70 - 130	
Carbon disulfide	ug/L	20.	17.9	89.6	70 - 130	
Methylene chloride	ug/L	20.	20.3	102.	70 - 130	
trans-1,2-Dichloroethene	ug/L	20.	19.9	99.7	70 - 130	
Acrylonitrile	ug/L	20.	20.3	102.	70 - 130	
tert-Butyl methyl ether (MTBE)	ug/L	20.	19.8	99.2	70 - 130	
1,1-Dichloroethane	ug/L	20.	21.2	106.	70 - 130	
Vinyl acetate	ug/L	20.	21.	105.	70 - 130	
2,2-Dichloropropane	ug/L	20.	22.5	112.	70 - 130	
2-Butanone	ug/L	20.	20.4	102.	70 - 130	
cis-1,2-Dichloroethene	ug/L	20.	20.6	103.	70 - 130	
Bromochloromethane	ug/L	20.	20.2	101.	70 - 130	
Tetrahydrofuran	ug/L	20.	20.5	102.	70 - 130	
Chloroform	ug/L	20.	20.1	100.	70 - 130	
1,1,1-Trichloroethane	ug/L	20.	21.6	108.	70 - 130	
1,1-Dichloropropene	ug/L	20.	20.1	101.	70 - 130	
Carbon tetrachloride	ug/L	20.	22.8	114.	70 - 130	
1,2-Dichloroethane	ug/L	20.	19.8	99.1	70 - 130	
Benzene	ug/L	20.	20.3	102.	70 - 130	
Trichloroethene	ug/L	20.	20.2	101.	70 - 130	
1,2-Dichloropropane	ug/L	20.	20.7	103.	70 - 130	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Methyl methacrylate	ug/L	20.	20.8	104.	70 - 130	
Dibromomethane	ug/L	20.	20.5	102.	70 - 130	
Bromodichloromethane	ug/L	20.	22.	110.	70 - 130	
cis-1,3-Dichloropropene	ug/L	20.	21.2	106.	70 - 130	
4-Methyl-2-pentanone	ug/L	20.	21.4	107.	70 - 130	
Toluene	ug/L	20.	21.1	106.	70 - 130	
trans-1,3-Dichloropropene	ug/L	20.	21.8	109.	70 - 130	
Ethyl methacrylate	ug/L	20.	21.2	106.	70 - 130	
1,1,2-Trichloroethane	ug/L	20.	21.2	106.	70 - 130	
Tetrachloroethene	ug/L	20.	21.2	106.	70 - 130	
1,3-Dichloropropane	ug/L	20.	20.9	105.	70 - 130	
2-Hexanone	ug/L	20.	22.1	110.	70 - 130	
Dibromochloromethane	ug/L	20.	21.9	110.	70 - 130	
Chlorobenzene	ug/L	20.	21.3	106.	70 - 130	
1,1,1,2-Tetrachloroethane	ug/L	20.	23.2	116.	70 - 130	
Ethyl Benzene	ug/L	20.	21.6	108.	70 - 130	
m,p-Xylene	ug/L	40.	42.8	107.	70 - 130	
o-Xylene	ug/L	20.	21.7	108.	70 - 130	
Styrene	ug/L	20.	21.1	106.	70 - 130	
Bromoform	ug/L	20.	24.	120.	70 - 130	
Isopropylbenzene (Cumene)	ug/L	20.	21.9	110.	70 - 130	
1,1,2,2-Tetrachloroethane	ug/L	20.	21.4	107.	70 - 130	
Bromobenzene	ug/L	20.	20.8	104.	70 - 130	
1,2,3-Trichloropropane	ug/L	20.	21.2	106.	70 - 130	
n-Propylbenzene	ug/L	20.	21.4	107.	70 - 130	
2-Chlorotoluene	ug/L	20.	21.2	106.	70 - 130	
1,3,5-Trimethylbenzene	ug/L	20.	21.3	107.	70 - 130	
tert-Butylbenzene	ug/L	20.	21.9	110.	70 - 130	
1,2,4-Trimethylbenzene	ug/L	20.	21.2	106.	70 - 130	
sec-Butylbenzene	ug/L	20.	21.8	109.	70 - 130	
1,3-Dichlorobenzene	ug/L	20.	21.	105.	70 - 130	
4-Isopropyltoluene	ug/L	20.	21.6	108.	70 - 130	
1,4-Dichlorobenzene	ug/L	20.	20.8	104.	70 - 130	
n-Butylbenzene	ug/L	20.	20.7	103.	70 - 130	
1,2-Dichlorobenzene	ug/L	20.	20.5	103.	70 - 130	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
1,2,4-Trichlorobenzene	ug/L	20.	19.6	97.9	70 - 130	
Hexachlorobutadiene	ug/L	20.	19.5	97.5	70 - 130	
Naphthalene	ug/L	20.	20.2	101.	70 - 130	
1,2,3-Trichlorobenzene	ug/L	20.	19.5	97.4	70 - 130	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	101	70 - 130	
4-Bromofluorobenzene (S)	%	103	70 - 130	

Laboratory Reagent Blank(1675023)

Parameter	Units	Results	MRL	LOD	Qualifier
Dichlorodifluoromethane	ug/L	<0.500	0.5	0.25	
Chloromethane	ug/L	<0.500	0.5	0.25	
Vinyl chloride	ug/L	<0.500	0.5	0.25	
Bromomethane	ug/L	<0.500	0.5	0.25	
Chloroethane	ug/L	<0.500	0.5	0.25	
4-Chlorotoluene	ug/L	<0.500	0.5	0.25	
Trichlorofluoromethane	ug/L	<0.500	0.5	0.25	
1,1-Dichloroethene	ug/L	<0.500	0.5	0.25	
Acetone	ug/L	<5.00	5.0	2.5	
Methyl iodide	ug/L	<0.500	0.5	0.25	
Carbon disulfide	ug/L	<0.500	0.5	0.25	
Methylene chloride	ug/L	<0.500	0.5	0.25	
trans-1,2-Dichloroethene	ug/L	<0.500	0.5	0.25	
Acrylonitrile	ug/L	<0.500	0.5	0.25	
tert-Butyl methyl ether (MTBE)	ug/L	<0.500	0.5	0.25	
1,1-Dichloroethane	ug/L	<0.500	0.5	0.25	
Vinyl acetate	ug/L	<0.500	0.5	0.25	
2,2-Dichloropropane	ug/L	<0.500	0.5	0.25	
2-Butanone	ug/L	<5.00	5.0	0.25	
cis-1,2-Dichloroethene	ug/L	<0.500	0.5	0.25	
Bromochloromethane	ug/L	<0.500	0.5	0.25	
Tetrahydrofuran	ug/L	<5.00	5.0	0.25	
Chloroform	ug/L	<1.00	1.0	0.5	
1,1,1-Trichloroethane	ug/L	<0.500	0.5	0.25	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Results	MRL	LOD	Qualifier
1,1-Dichloropropene	ug/L	<0.500	0.5	0.25	
Carbon tetrachloride	ug/L	<0.500	0.5	0.25	
1,2-Dichloroethane	ug/L	<0.500	0.5	0.25	
Benzene	ug/L	<0.500	0.5	0.25	
Trichloroethene	ug/L	<0.500	0.5	0.25	
1,2-Dichloropropane	ug/L	<0.500	0.5	0.25	
Methyl methacrylate	ug/L	<0.500	0.5	0.25	
Dibromomethane	ug/L	<0.500	0.5	0.25	
Bromodichloromethane	ug/L	<1.00	1.0	0.5	
cis-1,3-Dichloropropene	ug/L	<0.500	0.5	0.25	
4-Methyl-2-pentanone	ug/L	<0.500	0.5	0.25	
Toluene	ug/L	<0.500	0.5	0.25	
trans-1,3-Dichloropropene	ug/L	<0.500	0.5	0.25	
Ethyl methacrylate	ug/L	<0.500	0.5	0.25	
1,1,2-Trichloroethane	ug/L	<0.500	0.5	0.25	
Tetrachloroethene	ug/L	<0.500	0.5	0.25	
1,3-Dichloropropane	ug/L	<0.500	0.5	0.25	
2-Hexanone	ug/L	<0.500	0.5	0.25	
Dibromochloromethane	ug/L	<1.00	1.0	0.5	
Chlorobenzene	ug/L	<0.500	0.5	0.25	
1,1,1,2-Tetrachloroethane	ug/L	<0.500	0.5	0.25	
Ethyl Benzene	ug/L	<0.500	0.5	0.25	
m,p-Xylene	ug/L	<0.500	0.5	0.5	
o-Xylene	ug/L	<0.500	0.5	0.25	
Styrene	ug/L	<0.500	0.5	0.25	
Bromoform	ug/L	<1.00	1.0	0.5	
Isopropylbenzene (Cumene)	ug/L	<0.500	0.5	0.25	
1,1,1,2,2-Tetrachloroethane	ug/L	<0.500	0.5	0.25	
Bromobenzene	ug/L	<0.500	0.5	0.25	
1,2,3-Trichloropropane	ug/L	<0.500	0.5	0.25	
n-Propylbenzene	ug/L	<0.500	0.5	0.25	
2-Chlorotoluene	ug/L	<0.500	0.5	0.25	
1,3,5-Trimethylbenzene	ug/L	<0.500	0.5	0.25	
tert-Butylbenzene	ug/L	<0.500	0.5	0.25	
1,2,4-Trimethylbenzene	ug/L	<0.500	0.5	0.25	
sec-Butylbenzene	ug/L	<0.500	0.5	0.25	

Quality Control Results

QC Batch: OVOL/5455
Preparation Method: E524.2 Volatiles by GC/MS
Associated Lab IDs: Q2128874013, Q2128874015

Analysis Method: E524.2 Volatiles by GC/MS

Parameter	Units	Results	MRL	LOD	Qualifier
1,3-Dichlorobenzene	ug/L	<0.500	0.5	0.25	
4-Isopropyltoluene	ug/L	<0.500	0.5	0.25	
1,4-Dichlorobenzene	ug/L	<0.500	0.5	0.25	
n-Butylbenzene	ug/L	<0.500	0.5	0.25	
1,2-Dichlorobenzene	ug/L	<0.500	0.5	0.25	
1,2,4-Trichlorobenzene	ug/L	<0.500	0.5	0.25	
Hexachlorobutadiene	ug/L	<0.500	0.5	0.25	
Naphthalene	ug/L	<0.500	0.5	0.25	
1,2,3-Trichlorobenzene	ug/L	<0.500	0.5	0.25	

Surrogates

Parameter	Units	Spike Recovery%	Control Limits %	Qualifier
1,2-Dichlorobenzene-d4 (S)	%	98.40	70 - 130	
4-Bromofluorobenzene (S)	%	97.80	70 - 130	

Quality Control Results

QC Batch: WET/25159
Preparation Method: E300.0, Anions
Associated Lab IDs: Q2128874008, Q2128874009

Analysis Method: E300.0, Anions

Laboratory Reagent Blank(1673932)

Parameter	Units	Results	MRL	LOD	Qualifier
Fluoride	mg/L	<0.0100	0.01	0.005	
Nitrate (as N)	mg/L	<0.0100	0.01	0.005	
Sulfate	mg/L	<1.00	1.0	0.5	

Laboratory Fortified Matrix (1673934); Lab Fortified Matrix Duplicate (1673935); Original: Q2128853001

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Fluoride	mg/L	1.	1.73	101.	80 - 120	1.71	98.0	1.16	20	
Nitrate (as N)	mg/L	1.	2.96	101.	80 - 120	2.96	101.0	0.0	20	
Sulfate	mg/L	20.	65.3	89.1	80 - 120	65.3	88.6	0.0	20	

Laboratory Fortified Blank (1673933)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Fluoride	mg/L	1.	1.05	105.	90 - 110	
Nitrate (as N)	mg/L	1.	0.944	94.4	90 - 110	
Sulfate	mg/L	30.	27.9	92.9	90 - 110	

Duplicate (1674112); Original Q2128315002

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Fluoride	mg/L	5.03	4.89	2.82		
Nitrate (as N)	mg/L	13.4	13.2	1.5		
Sulfate	mg/L	326.0	312.0	4.39		

Limit of Quantitation Check (1673368)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Fluoride	mg/L	0.02	0.0219	110.	70 - 130	
Nitrate (as N)	mg/L	0.02	0.0182	91.	70 - 130	
Sulfate	mg/L	5.	3.96	79.2	70 - 130	

Method Reporting Limit Check (1673366)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Fluoride	mg/L	0.01	0.0127	127.	50 - 150	
Nitrate (as N)	mg/L	0.01	0.0115	115.	50 - 150	
Sulfate	mg/L	1.	0.81	81.	50 - 150	

Quality Control Results

QC Batch: WET/25169
Preparation Method: SM2320B, Alkalinity
Associated Lab IDs: Q2128874008, Q2128874009

Analysis Method: SM2320B, Alkalinity

Method Reporting Limit Check (1673986)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO ₃)	mg/L	20.	20.4	102.	50 - 150	

Duplicate (1673987); Original Q2128796001

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Total Alkalinity (CaCO ₃)	mg/L	50.2	50.6	0.794	20	

Lab Control Sample (1673989)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO ₃)	mg/L	100.	94.8	94.8	90 - 110	

Limit of Quantitation Check (1673985)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO ₃)	mg/L	20.	20.6	103.	70 - 130	

Matrix Spike (1673988); Original: Q2128796001

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Alkalinity (CaCO ₃)	mg/L	100.	152.	101.	70 - 130	

Method Blank(1673990)

Parameter	Units	Results	MRL	LOD	Qualifier
Total Alkalinity (CaCO ₃)	mg/L	<20.0	20.0	20.0	

Quality Control Results

QC Batch: WET/25170
Preparation Method: SM2510B, Conductivity @ 25°C
Associated Lab IDs: Q2128874008

Analysis Method: SM2510B, Conductivity @ 25°C

Method Blank(1673998)

Parameter	Units	Results	MRL	LOD	Qualifier
Specific Conductance	umho/cm	<10.0	10.0	10.0	

Lab Control Sample (1673996)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Specific Conductance	umho/cm	1000.	1010.	101.	70 - 130	

Duplicate (1673997); Original Q2128874008

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Specific Conductance	umho/cm	1230.0	1230.0	0.0	20	

Quality Control Results

QC Batch: WET/25170
Preparation Method: SM2510B, Conductivity @ 25°C
Associated Lab IDs: Q2128874009

Analysis Method: SM2510B, Conductivity @ 25°C

Lab Control Sample (1673999)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Specific Conductance	umho/cm	1000.	1020.	102.	70 - 130	

Duplicate (1674000); Original Q2128874009

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Specific Conductance	umho/cm	998.0	992.0	0.603	20	

Method Blank(1674001)

Parameter	Units	Results	MRL	LOD	Qualifier
Specific Conductance	umho/cm	<10.0	10.0	10.0	

Quality Control Results

QC Batch: WET/25174
Preparation Method: E300.0, Anions
Associated Lab IDs: Q2128874008, Q2128874009

Analysis Method: E300.0, Anions

Duplicate (1674558); Original Q2128809003

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Chloride	mg/L	53.8	47.9	11.6		

Laboratory Fortified Blank (1674285)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloride	mg/L	30.	30.8	103.	90 - 110	

Laboratory Reagent Blank(1674284)

Parameter	Units	Results	MRL	LOD	Qualifier
Chloride	mg/L	<1.00	1.0	0.5	

Limit of Quantitation Check (1674265)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloride	mg/L	5.	4.35	87.1	70 - 130	

Laboratory Fortified Matrix (1674286); Lab Fortified Matrix Duplicate (1674287); Original: Q2128856002

Parameter	Units	Spiked Amount	Spike Result	%Spike Recovery	Control Limits %	Duplicate Result	%Duplicate Recovery	RPD	RPD Limit	Qualifier
Chloride	mg/L	100.	393.	103.	80 - 120	393.0	103.0	0.0	20	

Method Reporting Limit Check (1674263)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Chloride	mg/L	1.	0.762	76.2	50 - 150	

Quality Control Results

QC Batch: WET/25180
Preparation Method: SM2540C, TDS
Associated Lab IDs: Q2128874008, Q2128874009

Analysis Method: SM2540C, TDS

Duplicate (1674877); Original Q2128874008

Parameter	Units	Original	Duplicate	RPD	RPD Limit	Qualifier
Total Dissolved Solids(TDS)	mg/L	666.0	681.0	2.23	20	

Method Blank(1674875)

Parameter	Units	Results	MRL	LOD	Qualifier
Total Dissolved Solids(TDS)	mg/L	<25.0	25.0	10.0	

Lab Control Sample (1674876)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Dissolved Solids(TDS)	mg/L	400.	379.	94.8	80 - 120	

Matrix Spike (1674878); Original: Q2128874008

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery%	Control Limits %	Qualifier
Total Dissolved Solids(TDS)	mg/L	400.	1170.	126.	70 - 130	

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
MET/8808 - E245.1 Mercury Water			
Q2128874006	2113711	MEP/11553	E245.1 Mercury Water
Q2128874007	2114498	MEP/11553	E245.1 Mercury Water
MET/8809 - E200.7 Metals, Trace Elements			
Q2128874006	2113711	MEP/11554	E200.7 Prep
Q2128874007	2114498	MEP/11554	E200.7 Prep
MET/8810 - E200.8, ICP-MS			
Q2128874006	2113711	MEP/11555	E200.8, ICP-MS Prep
Q2128874007	2114498	MEP/11555	E200.8, ICP-MS Prep
MET/8812 - E200.8, ICP-MS			
Q2128874006	2113711	MEP/11555	E200.8, ICP-MS Prep
Q2128874007	2114498	MEP/11555	E200.8, ICP-MS Prep
ORG/10457 - E504.1 GC			
Q2128874001	2123912	OEXT/8844	E504.1 GC
Q2128874004	2124807	OEXT/8844	E504.1 GC
ORG/10473 - 552.2 Haloacetic Acids by GC			
Q2128874011	2159329	OEXT/8856	552.2 Haloacetic Acids by GC
Q2128874012	2159330	OEXT/8856	552.2 Haloacetic Acids by GC
ORG/10474 - E515.4 Herbicides by GC			
Q2128874003	2122235	OEXT/8857	E515.4 Herbicides by GC
Q2128874010	2121444	OEXT/8857	E515.4 Herbicides by GC
OVOL/5454 - E524.2 Volatiles by GC/MS			
Q2128874011	2159329		
Q2128874012	2159330		
OVOL/5455 - E524.2 Volatiles by GC/MS			
Q2128874013	2102468		
Q2128874015	2104722		
WET/25159 - E300.0, Anions			
Q2128874008	2116260		
Q2128874009	2117105		
WET/25169 - SM2320B, Alkalinity			
Q2128874008	2116260		
Q2128874009	2117105		

QC Cross Reference

Lab ID	Sample ID	Prep Batch	Prep Method
WET/25170 - SM2510B, Conductivity @ 25°C			
Q2128874008	2116260		
Q2128874009	2117105		
WET/25174 - E300.0, Anions			
Q2128874008	2116260		
Q2128874009	2117105		
WET/25180 - SM2540C, TDS			
Q2128874008	2116260		
Q2128874009	2117105		

End of Report