ANALYTICAL SUMMARY REPORT

February 15, 2024

Fort Smith Water and Sewer Dist
PO Box 7596
Fort Smith, MT 59035-7596

Work Order: B24020324

Project Name: MT0004765

Energy Laboratories Inc Billings MT received the following 2 samples for Fort Smith Water and Sewer Dist on 2/6/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B24020324-001	TP with CT Wells 1,2	02/06/24 8:15	02/06/24	Drinking Water	Metals by ICP/ICPMS, Drinking Water Mercury, Drinking Water 515.4-Herbicides, Chlorinated SDWA Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite Metals Digestion by E200.2 Herbicide Liquid-Liquid Microextraction E515.4 Mercury Digestion by E245.1 531-Pesticides, Carbamates SDWA
B24020324-002	Treatment Plant for Well 3	02/06/24 8:30	02/06/24	Drinking Water	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

LaDonna Weis
Organic Supervisor

Digitally signed by Ladonna Weis
Date: 2024.02.15 15:38:20 -07:00

CLIENT: Fort Smith Water and Sewer Dist
Project: MT0004765
Work Order: B24020324

Report Date: 02/15/24

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, PO Box 247, Casper, WY, EPA Number WY00002.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist
Lab ID: B24020324-001
Client Sample ID: TP with CT Wells 1,2
Report Date: 02/15/24
PWS #: MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT
Collection Date: 02/06/24 08:15
Facility ID: TP001
Date Received: 02/06/24
SamplingPoint/Location: EP502 / TP with CT Wells 1,2
Matrix: Drinking Water
Project ID: MT0004765
Federal ID#: MT00005
Collector's Name: Josh McCraw
Contact Phone #: 406-666-2581
Compliance Sample: YES
Sample Type: RT

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS								
1025	Fluoride	0.2	mg/L		0.1		E300.0	02/06/24 19:12 / caa
NUTRIENTS								
1038	Nitrogen, Nitrate+Nitrite as N	0.01	mg/L		0.01	10	E353.2	02/07/24 15:49 / krt
METALS, TOTAL								
1074	Antimony	ND	mg/L		0.001	0.006	E200.8	02/08/24 20:47 / jks
1005	Arsenic	ND	mg/L		0.001	0.01	E200.8	02/08/24 20:47 / jks
1010	Barium	ND	mg/L		0.05	2	E200.8	02/08/24 20:47 / jks
1075	Beryllium	ND	mg/L		0.001	0.004	E200.8	02/08/24 20:47 / jks
1015	Cadmium	ND	mg/L		0.001	0.005	E200.8	02/08/24 20:47 / jks
1020	Chromium	ND	mg/L		0.005	0.1	E200.8	02/08/24 20:47 / jks
1035	Mercury	ND	mg/L		0.0001	0.002	E245.1	02/08/24 12:27 / nrb
1036	Nickel	ND	mg/L		0.01		E200.8	02/08/24 20:47 / jks
1045	Selenium	ND	mg/L		0.001	0.05	E200.8	02/08/24 20:47 / jks
1085	Thallium	ND	mg/L		0.0005	0.002	E200.8	02/08/24 20:47 / jks
PESTICIDES, BY HPLC								
2047	Aldicarb	ND	ug/L		1.0	3	E531.1	02/09/24 22:23 / eli-ca
2044	Aldicarb sulfone	ND	ug/L		1.0	2	E531.1	02/09/24 22:23 / eli-ca
2043	Aldicarb sulfoxide	ND	ug/L		1.0	4	E531.1	02/09/24 22:23 / eli-ca
2021	Carbaryl	ND	ug/L		1.0		E531.1	02/09/24 22:23 / eli-ca
2066	3-Hydroxycarbofuran	ND	ug/L		1.0		E531.1	02/09/24 22:23 / eli-ca
2046	Carbofuran	ND	ug/L		1.0	40	E531.1	02/09/24 22:23 / eli-ca
2024	Methiocarb	ND	ug/L		1.0		E531.1	02/09/24 22:23 / eli-ca
2022	Methomyl	ND	ug/L		1.0		E531.1	02/09/24 22:23 / eli-ca
2036	Oxamyl	ND	ug/L		1.0	200	E531.1	02/09/24 22:23 / eli-ca
	Baygon	ND	ug/L		1.0		E531.1	02/09/24 22:23 / eli-ca
	Surr: BDMC	102	%REC			70-130	E531.1	02/09/24 22:23 / eli-ca
HERBICIDES								
2110	2,4,5-TP (Silvex)	ND	ug/L		0.25	50	E515.4	02/09/24 04:36 / jmh
2105	2,4-D	ND	ug/L		1.0	70	E515.4	02/09/24 04:36 / jmh
2106	2,4-DB	ND	ug/L		1.0		E515.4	02/09/24 04:36 / jmh
2031	Dalapon	ND	ug/L		2.5	200	E515.4	02/09/24 04:36 / jmh
2440	Dicamba	ND	ug/L		1.0		E515.4	02/09/24 04:36 / jmh

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist
Lab ID: B24020324-001
Client Sample ID: TP with CT Wells 1,2
Report Date: 02/15/24
PWS #: MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT
Collection Date: 02/06/24 08:15
Facility ID: TP001
Date Received: 02/06/24
SamplingPoint/Location: EP502 / TP with CT Wells 1,2
Matrix: Drinking Water
Project ID: MT0004765
Federal ID#: MT00005
Collector's Name: Josh McCraw **Contact Phone #:** 406-666-2581
Compliance Sample: YES **Sample Type:** RT

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
HERBICIDES								
2206	Dichlorprop	ND	ug/L		1.0		E515.4	02/09/24 04:36 / jmh
2041	Dinoseb	ND	ug/L		1.0	7	E515.4	02/09/24 04:36 / jmh
2326	Pentachlorophenol	ND	ug/L		0.10	1	E515.4	02/09/24 04:36 / jmh
2040	Picloram	ND	ug/L		0.50	500	E515.4	02/09/24 04:36 / jmh
	Surr: 2,4-Dichlorophenylacetic acid	119	%REC			70-130	E515.4	02/09/24 04:36 / jmh

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist
Lab ID: B24020324-002
Client Sample ID: Treatment Plant for Well 3
Report Date: 02/15/24
PWS #: MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT
Collection Date: 02/06/24 08:30
Facility ID: TP002
Date Received: 02/06/24
SamplingPoint/Location: EP505 / Treatment Plant for
Matrix: Drinking Water
Project ID: MT0004765
Federal ID#: MT00005
Collector's Name: Josh McCraw **Contact Phone #:** 406-666-2581
Compliance Sample: YES **Sample Type:** RT

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
INORGANICS								
1025	Fluoride	0.2	mg/L		0.1		E300.0	02/06/24 19:29 / caa
NUTRIENTS								
1038	Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.01	10	E353.2	02/07/24 15:50 / krt
METALS, TOTAL								
1074	Antimony	ND	mg/L		0.001	0.006	E200.8	02/08/24 20:53 / jks
1005	Arsenic	ND	mg/L		0.001	0.01	E200.8	02/08/24 20:53 / jks
1010	Barium	ND	mg/L		0.05	2	E200.8	02/08/24 20:53 / jks
1075	Beryllium	ND	mg/L		0.001	0.004	E200.8	02/08/24 20:53 / jks
1015	Cadmium	ND	mg/L		0.001	0.005	E200.8	02/08/24 20:53 / jks
1020	Chromium	ND	mg/L		0.005	0.1	E200.8	02/08/24 20:53 / jks
1035	Mercury	ND	mg/L		0.0001	0.002	E245.1	02/08/24 12:28 / nrb
1036	Nickel	ND	mg/L		0.01		E200.8	02/08/24 20:53 / jks
1045	Selenium	ND	mg/L		0.001	0.05	E200.8	02/08/24 20:53 / jks
1085	Thallium	ND	mg/L		0.0005	0.002	E200.8	02/08/24 20:53 / jks
PESTICIDES, BY HPLC								
2047	Aldicarb	ND	ug/L		1.0	3	E531.1	02/09/24 23:04 / eli-ca
2044	Aldicarb sulfone	ND	ug/L		1.0	2	E531.1	02/09/24 23:04 / eli-ca
2043	Aldicarb sulfoxide	ND	ug/L		1.0	4	E531.1	02/09/24 23:04 / eli-ca
2021	Carbaryl	ND	ug/L		1.0		E531.1	02/09/24 23:04 / eli-ca
2066	3-Hydroxycarbofuran	ND	ug/L		1.0		E531.1	02/09/24 23:04 / eli-ca
2046	Carbofuran	ND	ug/L		1.0	40	E531.1	02/09/24 23:04 / eli-ca
2024	Methiocarb	ND	ug/L		1.0		E531.1	02/09/24 23:04 / eli-ca
2022	Methomyl	ND	ug/L		1.0		E531.1	02/09/24 23:04 / eli-ca
2036	Oxamyl	ND	ug/L		1.0	200	E531.1	02/09/24 23:04 / eli-ca
	Baygon	ND	ug/L		1.0		E531.1	02/09/24 23:04 / eli-ca
	Surr: BDMC	100	%REC			70-130	E531.1	02/09/24 23:04 / eli-ca
HERBICIDES								
2110	2,4,5-TP (Silvex)	ND	ug/L		0.25	50	E515.4	02/09/24 08:18 / jmh
2105	2,4-D	ND	ug/L		1.0	70	E515.4	02/09/24 08:18 / jmh
2106	2,4-DB	ND	ug/L		1.0		E515.4	02/09/24 08:18 / jmh
2031	Dalapon	ND	ug/L		2.5	200	E515.4	02/09/24 08:18 / jmh
2440	Dicamba	ND	ug/L		1.0		E515.4	02/09/24 08:18 / jmh

Report Definitions:
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist
Lab ID: B24020324-002
Client Sample ID: Treatment Plant for Well 3
Report Date: 02/15/24
PWS #: MT0004765 **Name:** FORT SMITH WATER AND SEWER DISTRICT
Collection Date: 02/06/24 08:30
Facility ID: TP002
Date Received: 02/06/24
SamplingPoint/Location: EP505 / Treatment Plant for
Matrix: Drinking Water
Project ID: MT0004765
Federal ID#: MT00005
Collector's Name: Josh McCraw **Contact Phone #:** 406-666-2581
Compliance Sample: YES **Sample Type:** RT

FRDS	Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
HERBICIDES								
2206	Dichlorprop	ND	ug/L		1.0		E515.4	02/09/24 08:18 / jmh
2041	Dinoseb	ND	ug/L		1.0	7	E515.4	02/09/24 08:18 / jmh
2326	Pentachlorophenol	ND	ug/L		0.10	1	E515.4	02/09/24 08:18 / jmh
2040	Picloram	ND	ug/L		0.50	500	E515.4	02/09/24 08:18 / jmh
	Surr: 2,4-Dichlorophenylacetic acid	98.0	%REC			70-130	E515.4	02/09/24 08:18 / jmh

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/12/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1										Analytical Run: HPLC-2050C-01_240209A
Lab ID: CCV	11	Continuing Calibration Verification Standard								02/09/24 18:19
Aldicarb		9.5	ug/L	1.0	95	80	120			
Aldicarb sulfone		9.5	ug/L	1.0	95	80	120			
Aldicarb sulfoxide		9.8	ug/L	1.0	98	80	120			
Carbaryl		9.6	ug/L	1.0	96	80	120			
3-Hydroxycarbofuran		9.5	ug/L	1.0	95	80	120			
Carbofuran		9.6	ug/L	1.0	96	80	120			
Methiocarb		9.6	ug/L	1.0	96	80	120			
Methomyl		9.6	ug/L	1.0	96	80	120			
Oxamyl		9.5	ug/L	1.0	95	80	120			
Baygon		9.5	ug/L	1.0	95	80	120			
Surr: BDMC				1.0	94	70	130			
Method: E531.1										Batch: R303515
Lab ID: MBLK	11	Method Blank				Run: HPLC-2050C-01_240209A				02/09/24 16:58
Aldicarb		ND	ug/L	0.1						
Aldicarb sulfone		ND	ug/L	0.09						
Aldicarb sulfoxide		ND	ug/L	0.06						
Carbaryl		ND	ug/L	0.1						
3-Hydroxycarbofuran		ND	ug/L	0.08						
Carbofuran		ND	ug/L	0.09						
Methiocarb		ND	ug/L	0.1						
Methomyl		ND	ug/L	0.08						
Oxamyl		ND	ug/L	0.09						
Baygon		ND	ug/L	0.09						
Surr: BDMC					104	70	130			
Lab ID: LCS	11	Laboratory Control Sample				Run: HPLC-2050C-01_240209A				02/09/24 17:39
Aldicarb		7.5	ug/L	1.0	94	80	120			
Aldicarb sulfone		7.4	ug/L	1.0	92	80	120			
Aldicarb sulfoxide		7.9	ug/L	1.0	98	80	120			
Carbaryl		7.6	ug/L	1.0	95	80	120			
3-Hydroxycarbofuran		7.8	ug/L	1.0	98	80	120			
Carbofuran		7.9	ug/L	1.0	99	80	120			
Methiocarb		7.7	ug/L	1.0	97	80	120			
Methomyl		8.0	ug/L	1.0	100	80	120			
Oxamyl		8.1	ug/L	1.0	101	80	120			
Baygon		7.9	ug/L	1.0	98	80	120			
Surr: BDMC				1.0	90	70	130			
Lab ID: C24020068-001CMS	11	Sample Matrix Spike				Run: HPLC-2050C-01_240209A				02/09/24 19:41
Aldicarb		7.3	ug/L	1.0	91	65	135			
Aldicarb sulfone		7.0	ug/L	1.0	88	65	135			
Aldicarb sulfoxide		7.4	ug/L	1.0	93	65	135			
Carbaryl		7.4	ug/L	1.0	92	65	135			
3-Hydroxycarbofuran		7.5	ug/L	1.0	94	65	135			
Carbofuran		7.7	ug/L	1.0	96	65	135			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/12/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E531.1										Batch: R303515
Lab ID: C24020068-001CMS	11	Sample Matrix Spike				Run: HPLC-2050C-01_240209A				02/09/24 19:41
Methiocarb		7.5	ug/L	1.0	94	65	135			
Methomyl		7.7	ug/L	1.0	96	65	135			
Oxamyl		7.8	ug/L	1.0	97	65	135			
Baygon		7.6	ug/L	1.0	95	65	135			
Surr: BDMC				1.0	88	70	130			
Lab ID: C24020068-001CMSD	11	Sample Matrix Spike Duplicate				Run: HPLC-2050C-01_240209A				02/09/24 20:21
Aldicarb		7.6	ug/L	1.0	95	65	135	4.2	20	
Aldicarb sulfone		7.7	ug/L	1.0	96	65	135	8.8	20	
Aldicarb sulfoxide		8.1	ug/L	1.0	102	65	135	9.0	20	
Carbaryl		7.5	ug/L	1.0	94	65	135	2.3	20	
3-Hydroxycarbofuran		8.1	ug/L	1.0	102	65	135	8.1	20	
Carbofuran		8.1	ug/L	1.0	102	65	135	6.0	20	
Methiocarb		7.8	ug/L	1.0	97	65	135	3.2	20	
Methomyl		8.2	ug/L	1.0	103	65	135	6.5	20	
Oxamyl		8.6	ug/L	1.0	107	65	135	9.4	20	
Baygon		8.1	ug/L	1.0	101	65	135	6.0	20	
Surr: BDMC				1.0	91	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/14/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**									Analytical Run: ICPMS207-B_240208A	
Lab ID: **QCS**	9	Initial Calibration Verification Standard							02/08/24 16:36	
Antimony		0.0517	mg/L	0.0050	103	90	110			
Arsenic		0.0499	mg/L	0.0050	100	90	110			
Barium		0.0525	mg/L	0.010	105	90	110			
Beryllium		0.0258	mg/L	0.0010	103	90	110			
Cadmium		0.0257	mg/L	0.0010	103	90	110			
Chromium		0.0495	mg/L	0.010	99	90	110			
Nickel		0.0500	mg/L	0.0050	100	90	110			
Selenium		0.0499	mg/L	0.0050	100	90	110			
Thallium		0.0524	mg/L	0.0050	105	90	110			
Lab ID: **CCV**	9	Continuing Calibration Verification Standard							02/08/24 19:48	
Antimony		0.0489	mg/L	0.0050	98	90	110			
Arsenic		0.0481	mg/L	0.0050	96	90	110			
Barium		0.0498	mg/L	0.010	100	90	110			
Beryllium		0.0497	mg/L	0.0010	99	90	110			
Cadmium		0.0484	mg/L	0.0010	97	90	110			
Chromium		0.0472	mg/L	0.010	94	90	110			
Nickel		0.0468	mg/L	0.0050	94	90	110			
Selenium		0.0479	mg/L	0.0050	96	90	110			
Thallium		0.0468	mg/L	0.0050	94	90	110			
Lab ID: **CCV**	9	Continuing Calibration Verification Standard							02/09/24 00:37	
Antimony		0.0483	mg/L	0.0050	97	90	110			
Arsenic		0.0484	mg/L	0.0050	97	90	110			
Barium		0.0479	mg/L	0.010	96	90	110			
Beryllium		0.0483	mg/L	0.0010	97	90	110			
Cadmium		0.0488	mg/L	0.0010	98	90	110			
Chromium		0.0496	mg/L	0.010	99	90	110			
Nickel		0.0490	mg/L	0.0050	98	90	110			
Selenium		0.0478	mg/L	0.0050	96	90	110			
Thallium		0.0472	mg/L	0.0050	94	90	110			
Method: **E200.8**									Batch: R416450	
Lab ID: **LRB**	9	Method Blank				Run: ICPMS207-B_240208A			02/08/24 13:26	
Antimony		ND	mg/L	0.00005						
Arsenic		0.00008	mg/L	0.00008						
Barium		0.00008	mg/L	0.00007						
Beryllium		ND	mg/L	0.00009						
Cadmium		ND	mg/L	0.00002						
Chromium		0.0003	mg/L	0.0003						
Nickel		ND	mg/L	0.0002						
Selenium		ND	mg/L	0.00007						
Thallium		0.0005	mg/L	0.00005						
Lab ID: **LFB**	9	Laboratory Fortified Blank				Run: ICPMS207-B_240208A			02/08/24 13:44	
Antimony		0.0491	mg/L	0.0050	98	85	115			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/14/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R416450
Lab ID: LFB	9	Laboratory Fortified Blank				Run: ICPMS207-B_240208A				02/08/24 13:44
Arsenic		0.0495	mg/L	0.0050	99	85	115			
Barium		0.0521	mg/L	0.010	104	85	115			
Beryllium		0.0468	mg/L	0.0010	94	85	115			
Cadmium		0.0491	mg/L	0.0010	98	85	115			
Chromium		0.0490	mg/L	0.010	98	85	115			
Nickel		0.0490	mg/L	0.0050	98	85	115			
Selenium		0.0505	mg/L	0.0050	101	85	115			
Thallium		0.0493	mg/L	0.0050	99	85	115			
Lab ID: B24020283-001AMS	9	Sample Matrix Spike				Run: ICPMS207-B_240208A				02/08/24 20:17
Antimony		0.0531	mg/L	0.0010	106	70	130			
Arsenic		0.0501	mg/L	0.0010	100	70	130			
Barium		0.162	mg/L	0.050	122	70	130			
Beryllium		0.0493	mg/L	0.00080	99	70	130			
Cadmium		0.0521	mg/L	0.0010	104	70	130			
Chromium		0.0509	mg/L	0.0050	102	70	130			
Nickel		0.0492	mg/L	0.010	98	70	130			
Selenium		0.0523	mg/L	0.0010	105	70	130			
Thallium		0.0454	mg/L	0.00050	91	70	130			
Lab ID: B24020283-001AMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS207-B_240208A				02/08/24 20:23
Antimony		0.0445	mg/L	0.0010	89	70	130	18	20	
Arsenic		0.0433	mg/L	0.0010	87	70	130	15	20	
Barium		0.136	mg/L	0.050	70	70	130	18	20	
Beryllium		0.0435	mg/L	0.00080	87	70	130	13	20	
Cadmium		0.0435	mg/L	0.0010	87	70	130	18	20	
Chromium		0.0450	mg/L	0.0050	90	70	130	12	20	
Nickel		0.0423	mg/L	0.010	84	70	130	15	20	
Selenium		0.0450	mg/L	0.0010	90	70	130	15	20	
Thallium		0.0397	mg/L	0.00050	79	70	130	14	20	
Lab ID: B24020283-001AMS	9	Sample Matrix Spike				Run: ICPMS207-B_240208A				02/09/24 00:55
Antimony		0.0492	mg/L	0.0010	98	70	130			
Arsenic		0.0470	mg/L	0.0010	94	70	130			
Barium		0.151	mg/L	0.050	108	70	130			
Beryllium		0.0464	mg/L	0.00080	93	70	130			
Cadmium		0.0480	mg/L	0.0010	96	70	130			
Chromium		0.0471	mg/L	0.0050	94	70	130			
Nickel		0.0479	mg/L	0.010	95	70	130			
Selenium		0.0484	mg/L	0.0010	95	70	130			
Thallium		0.0428	mg/L	0.00050	83	70	130			
Lab ID: B24020283-001AMSD	9	Sample Matrix Spike Duplicate				Run: ICPMS207-B_240208A				02/09/24 01:01
Antimony		0.0423	mg/L	0.0010	85	70	130	15	20	
Arsenic		0.0418	mg/L	0.0010	84	70	130	12	20	
Barium		0.130	mg/L	0.050	65	70	130	15	20	S

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

S - Spike recovery outside of advisory limits

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/14/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E200.8**										Batch: R416450
Lab ID: **B24020283-001AMSD**	9	Sample Matrix Spike Duplicate				Run: ICPMS207-B_240208A				02/09/24 01:01
Beryllium		0.0423	mg/L	0.00080	85	70	130	9.3	20	
Cadmium		0.0417	mg/L	0.0010	83	70	130	14	20	
Chromium		0.0426	mg/L	0.0050	85	70	130	10	20	
Nickel		0.0420	mg/L	0.010	83	70	130	13	20	
Selenium		0.0433	mg/L	0.0010	85	70	130	11	20	
Thallium		0.0393	mg/L	0.00050	76	70	130	8.5	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/14/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E245.1**									Analytical Run: HGCV203-B_240208A	
Lab ID: **ICV-186940**		Initial Calibration Verification Standard							02/08/24 11:50	
Mercury		0.00212	mg/L	0.00010	106	90	110			
Method: **E245.1**									Batch: 186906	
Lab ID: **MB-186906**		Method Blank				Run: HGCV203-B_240208A			02/08/24 12:14	
Mercury		ND	mg/L	0.00003						
Lab ID: **LCS-186906**		Laboratory Control Sample				Run: HGCV203-B_240208A			02/08/24 12:15	
Mercury		0.00208	mg/L	0.00010	104	85	115			
Lab ID: **B24020019-003DMS**		Sample Matrix Spike				Run: HGCV203-B_240208A			02/08/24 12:22	
Mercury		0.00211	mg/L	0.00010	105	70	130			
Lab ID: **B24020019-003DMSD**		Sample Matrix Spike Duplicate				Run: HGCV203-B_240208A			02/08/24 12:24	
Mercury		0.00208	mg/L	0.00010	104	70	130	1.2	30	
Lab ID: **B24020391-001AMS**		Sample Matrix Spike				Run: HGCV203-B_240208A			02/08/24 12:34	
Mercury		0.00210	mg/L	0.00010	105	70	130			
Lab ID: **B24020391-001AMSD**		Sample Matrix Spike Duplicate				Run: HGCV203-B_240208A			02/08/24 12:35	
Mercury		0.00209	mg/L	0.00010	105	70	130	0.5	30	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/14/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E300.0**									Analytical Run: IC METROHM 2_240206A	
Lab ID: **ICV**		Initial Calibration Verification Standard							02/06/24 11:19	
Fluoride		1.19	mg/L	0.10	95	90	110			
Lab ID: **CCV**		Continuing Calibration Verification Standard							02/06/24 16:39	
Fluoride		1.13	mg/L	0.10	90	90	110			
Method: **E300.0**									Batch: R416310	
Lab ID: **ICB**		Method Blank				Run: IC METROHM 2_240206A			02/06/24 11:36	
Fluoride		ND	mg/L	0.01						
Lab ID: **LFB**		Laboratory Fortified Blank				Run: IC METROHM 2_240206A			02/06/24 12:09	
Fluoride		1.19	mg/L	0.10	95	90	110			
Lab ID: **B24020207-001AMS**		Sample Matrix Spike				Run: IC METROHM 2_240206A			02/06/24 17:13	
Fluoride		1.97	mg/L	0.10	104	90	110			
Lab ID: **B24020207-001AMSD**		Sample Matrix Spike Duplicate				Run: IC METROHM 2_240206A			02/06/24 17:30	
Fluoride		1.99	mg/L	0.10	105	90	110	0.7	20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/14/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: **E353.2**										Analytical Run: FIA203-B_240207B
Lab ID: **ICV**		Initial Calibration Verification Standard								02/07/24 15:02
Nitrogen, Nitrate+Nitrite as N		0.571	mg/L	0.010	101	90	110			
Lab ID: **CCV**		Continuing Calibration Verification Standard								02/07/24 15:38
Nitrogen, Nitrate+Nitrite as N		0.991	mg/L	0.010	99	90	110			
Method: **E353.2**										Batch: R416367
Lab ID: **MBLK**		Method Blank				Run: FIA203-B_240207B				02/07/24 15:03
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.008						
Lab ID: **LFB**		Laboratory Fortified Blank				Run: FIA203-B_240207B				02/07/24 15:05
Nitrogen, Nitrate+Nitrite as N		1.04	mg/L	0.010	104	90	110			
Lab ID: **FILTERLFB**		Laboratory Fortified Blank				Run: FIA203-B_240207B				02/07/24 15:06
Nitrogen, Nitrate+Nitrite as N		1.05	mg/L	0.010	105	90	110			
Lab ID: **B24020276-003AMS**		Sample Matrix Spike				Run: FIA203-B_240207B				02/07/24 15:42
Nitrogen, Nitrate+Nitrite as N		3.61	mg/L	0.020	110	90	110			
Lab ID: **B24020276-003AMSD**		Sample Matrix Spike Duplicate				Run: FIA203-B_240207B				02/07/24 15:43
Nitrogen, Nitrate+Nitrite as N		3.61	mg/L	0.020	110	90	110	0.1	10	
Lab ID: **B24020333-001AMS**		Sample Matrix Spike				Run: FIA203-B_240207B				02/07/24 15:57
Nitrogen, Nitrate+Nitrite as N		4.41	mg/L	0.020	110	90	110			
Lab ID: **B24020333-001AMSD**		Sample Matrix Spike Duplicate				Run: FIA203-B_240207B				02/07/24 15:58
Nitrogen, Nitrate+Nitrite as N		4.39	mg/L	0.020	109	90	110	0.5	10	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/15/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4										Analytical Run: 186943
Lab ID: CAL1-186943	10	Continuing Calibration Verification Standard								02/08/24 23:37
2,4,5-TP (Silvex)		0.264	ug/L	0.25	106	50	150			
2,4-D		1.06	ug/L	1.0	106	50	150			
2,4-DB		1.04	ug/L	1.0	104	50	150			
Dalapon		1.07	ug/L	2.5	107	50	150			
Dicamba		0.498	ug/L	1.0	100	50	150			
Dichlorprop		1.11	ug/L	1.0	111	50	150			
Dinoseb		0.952	ug/L	1.0	95	50	150			
Pentachlorophenol		0.0991	ug/L	0.10	99	50	150			
Picloram		0.498	ug/L	0.50	100	50	150			
Surr: 2,4-Dichlorophenylacetic acid					101	70	130			
Lab ID: CAL3-186943	10	Continuing Calibration Verification Standard								02/09/24 03:22
2,4,5-TP (Silvex)		0.774	ug/L	0.25	103	70	130			
2,4-D		3.29	ug/L	1.0	110	70	130			
2,4-DB		3.21	ug/L	1.0	107	70	130			
Dalapon		3.28	ug/L	2.5	109	70	130			
Dicamba		1.48	ug/L	1.0	99	70	130			
Dichlorprop		3.17	ug/L	1.0	106	70	130			
Dinoseb		2.81	ug/L	1.0	94	70	130			
Pentachlorophenol		0.282	ug/L	0.10	94	70	130			
Picloram		1.54	ug/L	0.50	103	70	130			
Surr: 2,4-Dichlorophenylacetic acid					100	70	130			
Lab ID: CAL5-186943	10	Continuing Calibration Verification Standard								02/09/24 09:33
2,4,5-TP (Silvex)		1.79	ug/L	0.25	102	70	130			
2,4-D		6.94	ug/L	1.0	99	70	130			
2,4-DB		7.09	ug/L	1.0	101	70	130			
Dalapon		7.25	ug/L	2.5	104	70	130			
Dicamba		3.39	ug/L	1.0	97	70	130			
Dichlorprop		7.19	ug/L	1.0	103	70	130			
Dinoseb		6.62	ug/L	1.0	95	70	130			
Pentachlorophenol		0.630	ug/L	0.10	90	70	130			
Picloram		3.72	ug/L	0.50	106	70	130			
Surr: 2,4-Dichlorophenylacetic acid					100	70	130			
Method: E515.4										Batch: 186943
Lab ID: LCS-186943	10	Laboratory Control Sample				Run: BECD.I_240208A				02/09/24 00:14
2,4,5-TP (Silvex)		1.45	ug/L	0.25	116	70	130			
2,4-D		5.41	ug/L	1.0	108	70	130			
2,4-DB		4.71	ug/L	1.0	94	70	130			
Dalapon		4.86	ug/L	2.5	97	70	130			
Dicamba		2.53	ug/L	1.0	101	70	130			
Dichlorprop		5.16	ug/L	1.0	103	70	130			
Dinoseb		4.87	ug/L	1.0	97	70	130			
Pentachlorophenol		0.452	ug/L	0.10	90	70	130			
Picloram		2.45	ug/L	0.50	98	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Fort Smith Water and Sewer Dist **Work Order:** B24020324 **Report Date:** 02/15/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E515.4										Batch: 186943
Lab ID: LCS-186943	10	Laboratory Control Sample				Run: BECD.I_240208A				02/09/24 00:14
Surr: 2,4-Dichlorophenylacetic acid					105	70	130			
Lab ID: MB-186943	10	Method Blank				Run: BECD.I_240208A				02/09/24 00:52
2,4,5-TP (Silvex)		ND	ug/L	0.25						
2,4-D		ND	ug/L	1.0						
2,4-DB		ND	ug/L	1.0						
Dalapon		ND	ug/L	2.5						
Dicamba		ND	ug/L	1.0						
Dichlorprop		ND	ug/L	1.0						
Dinoseb		ND	ug/L	1.0						
Pentachlorophenol		ND	ug/L	0.10						
Picloram		ND	ug/L	0.50						
Surr: 2,4-Dichlorophenylacetic acid					108	70	130			
Lab ID: B24020049-002DMS	10	Sample Matrix Spike				Run: BECD.I_240208A				02/09/24 02:07
2,4,5-TP (Silvex)		1.54	ug/L	0.25	123	70	130			
2,4-D		5.94	ug/L	1.0	119	70	130			
2,4-DB		5.40	ug/L	1.0	108	70	130			
Dalapon		5.59	ug/L	2.5	112	70	130			
Dicamba		2.67	ug/L	1.0	107	70	130			
Dichlorprop		6.30	ug/L	1.0	126	70	130			
Dinoseb		5.02	ug/L	1.0	100	70	130			
Pentachlorophenol		0.453	ug/L	0.10	91	70	130			
Picloram		2.80	ug/L	0.50	112	70	130			
Surr: 2,4-Dichlorophenylacetic acid					117	70	130			
Lab ID: B24020049-002DMSD	10	Sample Matrix Spike Duplicate				Run: BECD.I_240208A				02/09/24 02:44
2,4,5-TP (Silvex)		1.48	ug/L	0.25	118	70	130	4.5	30	
2,4-D		5.51	ug/L	1.0	110	70	130	7.6	30	
2,4-DB		5.15	ug/L	1.0	103	70	130	4.7	30	
Dalapon		5.37	ug/L	2.5	107	70	130	4.1	30	
Dicamba		2.61	ug/L	1.0	104	70	130	2.4	30	
Dichlorprop		6.22	ug/L	1.0	124	70	130	1.3	30	
Dinoseb		4.77	ug/L	1.0	95	70	130	5.1	30	
Pentachlorophenol		0.446	ug/L	0.10	89	70	130	1.6	30	
Picloram		2.84	ug/L	0.50	114	70	130	1.4	30	
Surr: 2,4-Dichlorophenylacetic acid					117	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

Fort Smith Water and Sewer Dist

B24020324

Login completed by: Lyndsi E. LeProwse
Date Received: 2/6/2024
Reviewed by: llinn
Received by: AAG
Reviewed Date: 2/7/2024
Carrier name: Hand Deliver

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	4.7°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Contact and Corrective Action Comments:

None

ENERGY LABORATORIES

www.energylab.com

Chain of Custody (COC) & Analytical Request Record

Lab Workorder #: B24020329

Project Information

Laboratory Use

Client:	Fort Smith Water and Sewer Dist	*Quote:* N/A	*Critical Hold Time:* 14 Days
Project:	MT0004765	*BO#:* 180825	*# of Samples:* 2
Purchase Order:		*EE#:* 56481	*Matrix:* Drinking Water
Contact/Phone:	Josh McCraw (662)419-7200	*Turn-Around Time:* Standard	

Comments:

Contact ELI prior to RUSH sample submittal for charges, availability & scheduling. Samples submitted may be subcontracted to other laboratories to complete the test(s) requested; this will be clearly noted on the analytical report.

Analysis Requested

	Sample Identification	Collection Date/Time	# of Containers	Matrix	RUSH TAT	EPA/State Compliance	Anions by Ion Chromatography (E300.0) Hold Time (Days) 28	Metals by ICP/ICPMS, Drinking Water (E200.7_8) 180	Mercury, Drinking Water (E245.1) 28	Nitrogen, Nitrate + Nitrite (E353.2) 28	515.4-Herbicides, Chlorinated SDWA (E515.4) 14	531-Pesticides, Carbamates SDWA (E531.1) 28	Public Water Supply (PWS) Required System Information: PWS System ID	PWS Facility ID	PWS Sample Pt ID
1	TP with CT Wells 1,2	2/6/24 8:15	6	DW		X	X	X	X	X	X	X	MT0004765	TP001	EP502
2	Treatment Plant for Well 3	2/6/24 8:30	6	DW		X	X	X	X	X	X	X	MT0004765	TP002	EP505
3	JT	~~2/6/24~~	~~1~~	~~DW~~											
4															
5															
6															
7															
8															
9															
10															
11															

Custody Record MUST be signed

Lab provided preservatives were used ☐Yes ☐No

Sampler Name (if different than Relinquished by):

Sampler Phone:

Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
Josh McCraw	2/6/24				
Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
			D. Tbeta A.	6-Feb 24 1249	

Date Printed: 01/22/2024 EE: BL - 56481 COC: Page 1 of 1