

## Certificate of Analysis

Protect & Preserve American Fork Canyon  
PO Box 85  
American Fork, UT 84003

PO#:  
Receipt: 8/23/16 16:35 @ 24.3 °C  
Date Reported: 2/3/2017  
Project Name: [none]

Sample ID: Mouth of American Fork River

Matrix: Solid

Lab ID: 16H1293-01

Date Sampled: 8/22/16 16:00

Sampled By: Mark Allen

Parameter	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
<b>Inorganic</b>							
Total Solids	0.4	%	0.1	SM 2540G	8/26/16	8/26/16	
<b>Metals</b>							
Aluminum, Total	39700	mg/kg dry	210	EPA 6010B/3050B	8/29/16	8/30/16	
Antimony, Total	46.1	mg/kg dry	42.0	EPA 6010B/3050B	8/29/16	8/30/16	
Arsenic, Total	119	mg/kg dry	210	EPA 6010B/3050B	8/29/16	8/30/16	J
Barium, Total	442	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/31/16	
Beryllium, Total	2.84	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	J
Cadmium, Total	21.7	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	
Chromium, Total	64.3	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	
Cobalt, Total	20.5	mg/kg dry	21.0	EPA 6010B/3050B	8/29/16	8/30/16	J
Copper, Total	283	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	
Iron, Total	68900	mg/kg dry	105	EPA 6010B/3050B	8/29/16	8/30/16	
Lead, Total	1530	mg/kg dry	105	EPA 6010B/3050B	8/29/16	8/30/16	
Manganese, Total	1610	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	
Mercury, Total	0.49	mg/kg dry	0.43	EPA 7471A	8/29/16	8/30/16	
Molybdenum, Total	7.40	mg/kg dry	21.0	EPA 6010B/3050B	8/29/16	8/31/16	J
Nickel, Total	87.8	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	
Selenium, Total	ND	mg/kg dry	105	EPA 6010B/3050B	8/29/16	8/30/16	
Silver, Total	4.98	mg/kg dry	10.5	EPA 6010B/3050B	8/29/16	8/30/16	J
Strontium, Total	566	mg/kg dry	21.0	EPA 6010B/3050B	8/29/16	8/31/16	
Tin, Total	44.7	mg/kg dry	42.0	EPA 6010B/3050B	8/29/16	8/31/16	
Vanadium, Total	75.6	mg/kg dry	21.0	EPA 6010B/3050B	8/29/16	8/30/16	
Zinc, Total	2170	mg/kg dry	21.0	EPA 6010B/3050B	8/29/16	8/30/16	

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PO#: \_\_\_\_\_  
Receipt: 8/23/16 16:35 @ 24.3 °C  
Date Reported: 2/3/2017  
Project Name: [none]

Sample ID: N. Fork AF River Below Tibble Reservoir

Matrix: Solid

Lab ID: 16H1293-02

Date Sampled: 8/22/16 17:00

Sampled By: Mark Allen

Parameter	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
<b>Inorganic</b>							
Total Solids	0.2	%	0.1	SM 2540G	8/26/16	8/26/16	
<b>Metals</b>							
Aluminum, Total	192000	mg/kg dry	440	EPA 6010B/3050B	8/29/16	8/30/16	
Antimony, Total	229	mg/kg dry	88.0	EPA 6010B/3050B	8/29/16	8/30/16	
Arsenic, Total	493	mg/kg dry	440	EPA 6010B/3050B	8/29/16	8/30/16	
Barium, Total	2550	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/31/16	
Beryllium, Total	13.5	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	J
Cadmium, Total	77.5	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	
Chromium, Total	297	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	
Cobalt, Total	109	mg/kg dry	44.0	EPA 6010B/3050B	8/29/16	8/30/16	
Copper, Total	1020	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	
Iron, Total	349000	mg/kg dry	220	EPA 6010B/3050B	8/29/16	8/30/16	
Lead, Total	5300	mg/kg dry	220	EPA 6010B/3050B	8/29/16	8/30/16	
Manganese, Total	8610	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	
Mercury, Total	5.76	mg/kg dry	0.80	EPA 7471A	8/29/16	8/30/16	
Molybdenum, Total	18.0	mg/kg dry	44.0	EPA 6010B/3050B	8/29/16	8/31/16	J
Nickel, Total	401	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	
Selenium, Total	36.6	mg/kg dry	220	EPA 6010B/3050B	8/29/16	8/30/16	J
Silver, Total	12.8	mg/kg dry	22.0	EPA 6010B/3050B	8/29/16	8/30/16	J
Strontium, Total	3000	mg/kg dry	44.0	EPA 6010B/3050B	8/29/16	8/31/16	
Tin, Total	ND	mg/kg dry	88.0	EPA 6010B/3050B	8/29/16	8/31/16	
Vanadium, Total	367	mg/kg dry	44.0	EPA 6010B/3050B	8/29/16	8/30/16	
Zinc, Total	9230	mg/kg dry	44.0	EPA 6010B/3050B	8/29/16	8/30/16	

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Date Reported: 2/3/2017  
Project Name: [none]

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## Report Footnotes

### Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

### Flag Descriptions

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Chemtech-Ford Laboratories



Reed Hendricks, Senior Project Manager

Analyses presented in this report were performed in accordance with the National Environmental Laboratory Accreditation Conference, unless otherwise noted.

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: Protect and Preserve American Fork Canyon  
 ADDRESS: \_\_\_\_\_  
 CITY/STATE/ZIP: London Utah  
 PHONE #: 801-787-8025 FAX: \_\_\_\_\_  
 CONTACT: Mark Allen PROJECT: \_\_\_\_\_  
 EMAIL: MarkStewartAllen@gmail.com

BILLING ADDRESS: \_\_\_\_\_  
 BILLING CITY/STATE/ZIP: \_\_\_\_\_  
 PURCHASE ORDER #: Tibble Fork Aug 22<sup>nd</sup>  
 INVOICE EMAIL ADDRESS: ~~MarkStewartAllen@gmail.com~~ American Fork Canyon@gmail.com



TURNAROUND REQUIRED:\*

\* Expedited turnaround subject to additional charge

**PAID** Check Date: 8-24-16  
 Cash Amount: \$320.00  
 VISA/MC Initials: SP

Lab Use Only	CLIENT SAMPLE INFORMATION				
H1293	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	Field: Residual Chlorine
01	(A) Mouth of American Fork Run	8/22	4 pm		
02	(B) W. Fork AF River Below Tibble Reservoir	8/22	5 pm		
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

TESTS REQUESTED												Bacteria														
6010 Mo, Sr, Pb, As, Zn, Fe, Mn, Ba, Sr mercury by T470																							Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (plate Count)	E. Coli Only

Sampled by: [print] MARK ALLEN Sampled by: [signature] [Signature]

ON ICE  NOT ON ICE  Temp (C°): 24.3

Special Instructions: \_\_\_\_\_

Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Relinquished by: [signature] [Signature] Date/Time 8/23/16 16:35

Relinquished by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

Relinquished by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

Received by: [signature] [Signature] Date/Time 8-23-16 16:35

Received by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

Received by: [signature] \_\_\_\_\_ Date/Time \_\_\_\_\_

CHEMTECH-FORD  
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Payment Terms are net 30 days OAC. 1.5% interest charge per month (18% per annum). Client agrees to pay collection costs and attorney's fees.

