

ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix
4625 East Cotton Ctr Blvd
Suite 189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-169030-1

Client Project/Site: 103X903520F0071210706/Telluride Valley
Floor

For:

Tetra Tech, Inc.
1560 Broadway, Suite 1400
Denver, Colorado 80202

Attn: Edvin Aleksandrov

[Redacted Signature]

Authorized for release by:
8/19/2021 4:16:19 PM

Carlene McCutcheon, Project Manager II
(602)659-7612
Carlene.McCutcheon@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 550-169030-1

Project/Site: 103X903520F0071210706/Telluride Valley Floor

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Job ID: 550-169030-1

Laboratory: Eurofins TestAmerica, Phoenix

Narrative

Job Narrative 550-169030-1

Comments

No additional comments.

Receipt

The samples were received on 8/16/2021 9:35 AM. Unless otherwise noted below, the samples arrived in good condition.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Industrial Hygiene

Method 7303: The Method Blank, Field Blank (or other QC results) were not used to correct client sample results associated with preparation batch 550-250668 and analytical batch 550-250938.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Sample Summary

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-169030-1	VF001080921	Air	08/09/21 00:00	08/16/21 09:35
550-169030-2	VF003080921	Air	08/09/21 00:00	08/16/21 09:35
550-169030-3	VF001081221	Air	08/12/21 00:00	08/16/21 09:35
550-169030-4	VF001081221FB	Air	08/12/21 00:00	08/16/21 09:35
550-169030-5	VF002081221	Air	08/12/21 00:00	08/16/21 09:35
550-169030-6	VF003081221	Air	08/12/21 00:00	08/16/21 09:35
550-169030-7	VF003081221D	Air	08/12/21 00:00	08/16/21 09:35

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Detection Summary

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Client Sample ID: VF001080921

Lab Sample ID: 550-169030-1

No Detections.

Client Sample ID: VF003080921

Lab Sample ID: 550-169030-2

No Detections.

Client Sample ID: VF001081221

Lab Sample ID: 550-169030-3

No Detections.

Client Sample ID: VF001081221FB

Lab Sample ID: 550-169030-4

No Detections.

Client Sample ID: VF002081221

Lab Sample ID: 550-169030-5

No Detections.

Client Sample ID: VF003081221

Lab Sample ID: 550-169030-6

No Detections.

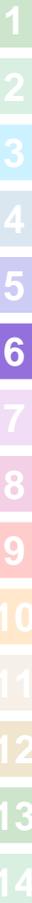
Client Sample ID: VF003081221D

Lab Sample ID: 550-169030-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix



Client Sample Results

Client: Tetra Tech, Inc.
 Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Client Sample ID: VF001080921

Lab Sample ID: 550-169030-1

Date Collected: 08/09/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 6768 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500	<0.0739			0.500	08/17/21 07:45	08/18/21 20:22	1
Lead	<0.250	<0.0369			0.250	08/17/21 07:45	08/18/21 20:22	1

Client Sample ID: VF003080921

Lab Sample ID: 550-169030-2

Date Collected: 08/09/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 3098 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500	<0.161			0.500	08/17/21 07:45	08/18/21 20:25	1
Lead	<0.250	<0.0807			0.250	08/17/21 07:45	08/18/21 20:25	1

Client Sample ID: VF001081221

Lab Sample ID: 550-169030-3

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 7414 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500	<0.0674			0.500	08/17/21 07:45	08/18/21 20:27	1
Lead	<0.250	<0.0337			0.250	08/17/21 07:45	08/18/21 20:27	1

Client Sample ID: VF001081221FB

Lab Sample ID: 550-169030-4

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 0 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500				0.500	08/17/21 07:45	08/18/21 20:30	1
Lead	<0.250				0.250	08/17/21 07:45	08/18/21 20:30	1

Client Sample ID: VF002081221

Lab Sample ID: 550-169030-5

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 2769 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500	<0.181			0.500	08/17/21 07:45	08/18/21 20:32	1
Lead	<0.250	<0.0903			0.250	08/17/21 07:45	08/18/21 20:32	1

Eurofins TestAmerica, Phoenix

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Client Sample ID: VF003081221

Lab Sample ID: 550-169030-6

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 3055 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500	<0.164			0.500	08/17/21 07:45	08/18/21 20:35	1
Lead	<0.250	<0.0818			0.250	08/17/21 07:45	08/18/21 20:35	1

Client Sample ID: VF003081221D

Lab Sample ID: 550-169030-7

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Sample Air Volume: 3055 L

Sample Container: IH - MCE, 0.8 micron, 37-mm Filter

Method: PE-MET-012 - NIOSH Method 7303

Analyte	Result	Result	Result	Qualifier	RL	Prepared	Analyzed	Dil Fac
	ug/Sample	ug/m3			ug/Sample			
Arsenic	<0.500	<0.164			0.500	08/17/21 07:45	08/18/21 20:37	1
Lead	<0.250	<0.0818			0.250	08/17/21 07:45	08/18/21 20:37	1

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Method: PE-MET-012 - NIOSH Method 7303

Lab Sample ID: MB 550-250668/1-A
Matrix: Air
Analysis Batch: 250938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 250668

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.500		0.500	ug/Sample		08/17/21 07:45	08/18/21 20:15	1
Lead	<0.250		0.250	ug/Sample		08/17/21 07:45	08/18/21 20:15	1

Lab Sample ID: LCS 550-250668/2-A
Matrix: Air
Analysis Batch: 250938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 250668

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	25.0	25.58		ug/Sample		102	80 - 120
Lead	25.0	26.19		ug/Sample		105	80 - 120

Lab Sample ID: LCSD 550-250668/3-A
Matrix: Air
Analysis Batch: 250938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 250668

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	25.0	24.91		ug/Sample		100	80 - 120	3	20
Lead	25.0	25.53		ug/Sample		102	80 - 120	3	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

IH - Metals

Prep Batch: 250668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-169030-1	VF001080921	Total/NA	Air	Filter Prep	
550-169030-2	VF003080921	Total/NA	Air	Filter Prep	
550-169030-3	VF001081221	Total/NA	Air	Filter Prep	
550-169030-4	VF001081221FB	Total/NA	Air	Filter Prep	
550-169030-5	VF002081221	Total/NA	Air	Filter Prep	
550-169030-6	VF003081221	Total/NA	Air	Filter Prep	
550-169030-7	VF003081221D	Total/NA	Air	Filter Prep	
MB 550-250668/1-A	Method Blank	Total/NA	Air	Filter Prep	
LCS 550-250668/2-A	Lab Control Sample	Total/NA	Air	Filter Prep	
LCSD 550-250668/3-A	Lab Control Sample Dup	Total/NA	Air	Filter Prep	

Analysis Batch: 250938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-169030-1	VF001080921	Total/NA	Air	PE-MET-012	250668
550-169030-2	VF003080921	Total/NA	Air	PE-MET-012	250668
550-169030-3	VF001081221	Total/NA	Air	PE-MET-012	250668
550-169030-4	VF001081221FB	Total/NA	Air	PE-MET-012	250668
550-169030-5	VF002081221	Total/NA	Air	PE-MET-012	250668
550-169030-6	VF003081221	Total/NA	Air	PE-MET-012	250668
550-169030-7	VF003081221D	Total/NA	Air	PE-MET-012	250668
MB 550-250668/1-A	Method Blank	Total/NA	Air	PE-MET-012	250668
LCS 550-250668/2-A	Lab Control Sample	Total/NA	Air	PE-MET-012	250668
LCSD 550-250668/3-A	Lab Control Sample Dup	Total/NA	Air	PE-MET-012	250668

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Client Sample ID: VF001080921

Lab Sample ID: 550-169030-1

Date Collected: 08/09/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:22	MGM	TAL PHX

Client Sample ID: VF003080921

Lab Sample ID: 550-169030-2

Date Collected: 08/09/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:25	MGM	TAL PHX

Client Sample ID: VF001081221

Lab Sample ID: 550-169030-3

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:27	MGM	TAL PHX

Client Sample ID: VF001081221FB

Lab Sample ID: 550-169030-4

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:30	MGM	TAL PHX

Client Sample ID: VF002081221

Lab Sample ID: 550-169030-5

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:32	MGM	TAL PHX

Client Sample ID: VF003081221

Lab Sample ID: 550-169030-6

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:35	MGM	TAL PHX

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Client Sample ID: VF003081221D

Lab Sample ID: 550-169030-7

Date Collected: 08/12/21 00:00

Matrix: Air

Date Received: 08/16/21 09:35

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	Filter Prep			250668	08/17/21 07:45	SGO	TAL PHX
Total/NA	Analysis	PE-MET-012		1	250938	08/18/21 20:37	MGM	TAL PHX

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Laboratory: Eurofins TestAmerica, Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
AIHA-LAP, LLC	Industrial Hygiene Laboratory Accreditation Program (IHLAP)	154268	10-01-21

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Method Summary

Client: Tetra Tech, Inc.
Project/Site: 103X903520F0071210706/Telluride Valley Floor

Job ID: 550-169030-1

Method	Method Description	Protocol	Laboratory
PE-MET-012	NIOSH Method 7303	NIOSH	TAL PHX
Filter Prep	Preparation, IH Filter	NIOSH	TAL PHX

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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169030

TVF_20210813

CHAIN OF CUSTODY RECORD

Page 1 of 1
 Eurofins TestAmerica
 4625 E. Cotton Center Blvd., Ste. 189
 Phoenix, AZ 85040
 PHONE: (602-437-3340)

No:

8/19/2021

Report to Contact Name: Edvin Aleksandrov				Bill To Company: Tetra Tech, Inc.			
Company Name: Tetra Tech Inc.				Attention: Edvin Aleksandrov			
Street: 1560 Broadway				Street: 1560 Broadway			
City: Denver		State: CO		Zip Code: 80202		City: Denver	
Phone: XXXXXXXXXX		Fax:		Phone: XXXXXXXXXX		Fax:	
Project Name: 103X903520F0071210706/Telluride Valley Floor				Email Results To: Edvin.Aleksandrov@tetrattech.com , Michelle.Handley@tetrattech.com			
Number of Samples: 7		Date Shipped: 08/13/2021		Purchase Order:		Sampled By: Edvin Aleksandrov	

							Media Type:
2 Week	1 Week	5 Day	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
				X			
							Manufacturer/Part #:
							Lot #:

Sample ID	Media	Analyte / Method	Sample Date	Total Time (min.)	Volume (L)	Comments
01 VF001080921	Air	Lead and Arsenic	08/09/2021	450	6768	VF001
02 VF003080921	Air	Lead and Arsenic	08/09/2021	662	3098	VF003
03 VF001081221	Air	Lead and Arsenic	08/12/2021	491	7414	VF001
04 VF001081221FB	Air	Lead and Arsenic	08/12/2021	0	0	VF001
05 VF002081221	Air	Lead and Arsenic	08/12/2021	571	2769	VF002
06 VF003081221	Air	Lead and Arsenic	08/12/2021	611	3055	VF003
07 VF003081221D	Air	Lead and Arsenic	08/12/2021	611	3055	VF003



FUSH!!

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Note: Most NIOSH and OSHA methods require field blanks. It is the IH field samples responsibility to submit the proper number of field blanks and duplicates

AMBIENT

Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time
XXXXXXXXXX (TetraTech)	8/13/21 (1pm)		
Fed Ex	XXXXXXXXXX		

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 550-169030-1

Login Number: 169030

List Source: Eurofins TestAmerica, Phoenix

List Number: 1

Creator: Greuel, Nicole R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

