

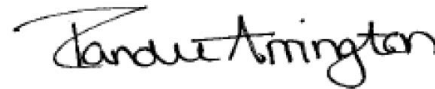
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: 590-10645-1
Client Project/Site: IAQ sampling

For:
Eastern Washington University
319 Showalter Hall
Cheney, Washington 99004-2445

Attn: Chad Johnson



Authorized for release by:
3/28/2019 3:09:29 PM

Randee Arrington, Project Manager II
(509)924-9200
randee.arrington@testamericainc.com

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www.testamericainc.com

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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Case Narrative

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

Job ID: 590-10645-1

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample was received on 3/25/2019 2:20 PM; the sample arrived in good condition. The temperature of the cooler at receipt was 20.4° C.

Metals

Method 6010C: The following sample was diluted due to the abundance of non-target analytes: JFK032519Mt01 (590-10645-1). Elevated reporting limits (RLs) are provided.

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: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-10645-1	JFK032519Mt01	Waste	03/25/19 08:03	03/25/19 14:20

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Definitions/Glossary

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Client Sample Results

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

Client Sample ID: JFK032519Mt01

Lab Sample ID: 590-10645-1

Date Collected: 03/25/19 08:03

Matrix: Waste

Date Received: 03/25/19 14:20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.1		7.1		mg/Kg		03/26/19 15:30	03/28/19 13:35	2
Cobalt	ND		7.1		mg/Kg		03/26/19 15:30	03/28/19 13:35	2
Copper	ND		23		mg/Kg		03/26/19 15:30	03/28/19 13:35	2
Nickel	ND		7.1		mg/Kg		03/26/19 15:30	03/28/19 13:35	2
Tin	ND		26		mg/Kg		03/26/19 15:30	03/28/19 13:35	2
Zinc	ND		29		mg/Kg		03/26/19 15:30	03/28/19 13:35	2

QC Sample Results

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 590-21479/2-A
Matrix: Waste
Analysis Batch: 21488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21479

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.3		mg/Kg		03/26/19 15:30	03/27/19 12:44	1
Cobalt	ND		1.3		mg/Kg		03/26/19 15:30	03/27/19 12:44	1
Copper	ND		4.0		mg/Kg		03/26/19 15:30	03/27/19 12:44	1
Nickel	ND		1.3		mg/Kg		03/26/19 15:30	03/27/19 12:44	1
Tin	ND		4.5		mg/Kg		03/26/19 15:30	03/27/19 12:44	1
Zinc	ND		5.0		mg/Kg		03/26/19 15:30	03/27/19 12:44	1

Lab Sample ID: LCS 590-21479/1-A
Matrix: Waste
Analysis Batch: 21488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	50.0	51.1		mg/Kg		102	80 - 120
Cobalt	50.0	52.2		mg/Kg		104	80 - 120
Copper	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	52.4		mg/Kg		105	80 - 120
Tin	100	103		mg/Kg		103	80 - 120
Zinc	50.0	53.2		mg/Kg		106	80 - 120

Lab Chronicle

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

Client Sample ID: JFK032519Mt01

Lab Sample ID: 590-10645-1

Date Collected: 03/25/19 08:03

Matrix: Waste

Date Received: 03/25/19 14:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.35 g	50 mL	21479	03/26/19 15:30	JSP	TAL SPK
Total/NA	Analysis	6010C		2			21529	03/28/19 13:35	JSP	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Accreditation/Certification Summary

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

Laboratory: TestAmerica Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-025	12-07-19
Nevada	State Program	9	WA012202019-1	07-31-19
Oregon	NELAP	10	4137	12-07-19
Washington	State Program	10	C569	01-06-20

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Method Summary

Client: Eastern Washington University
Project/Site: IAQ sampling

TestAmerica Job ID: 590-10645-1

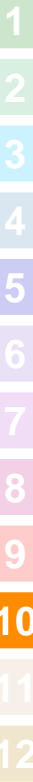
Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SPK
3050B	Preparation, Metals	SW846	TAL SPK

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



>>> Select a Laboratory <<<

TestAmerica Spokane
 11922 E 1st Avenue
 Spokane, WA 99206-5302
 509.924.9200

Chain of Custody Record



590-10645 Chain of Custody

merico
 ENVIRONMENTAL TESTING
 Laboratories, Inc.

3/28/2019

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: Chad Johnson		Site Contact: Jerry Page X6697		Date: 03/25/19		COC No:	
Eastern Washington University		Tel/Fax: (509)359-6455		Lab Contact:		Carrier:		___1___ of ___1___ COCs	
002 Martin Hall c/o: Environmental Health & Safety		Analysis Turnaround Time		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		EPA 6010-C Metals	
Cheney, WA 99004		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS							
(509) 359-6455 Phone		TAT if different from Below _____							
(509) 359-4690 FAX		<input type="checkbox"/> 2 weeks							
Project Name: IAQ sampling		<input checked="" type="checkbox"/> 1 week							
Site: JFK Library		<input type="checkbox"/> 2 days						Sampler:	
PO # K0003935; WO# 18-152076-016		<input type="checkbox"/> 1 day						For Lab Use Only:	
								Walk-in Client:	
								Lab Sampling:	
								Job / SDG No.:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 6010-C Metals	Sample Specific Notes:
JFK032519Mt01	3/25/19	08:03	G	N	1	N	N	X	Net sample wt: 364.3g
									Test for metals:
									Chromium (Cr)
									Cobalt (Co)
									Copper (Cu)
									Nickel (Ni)
									Tin (Sn)
									Zinc (Zn)

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 20.1	Corr'd: 20.4	Therm ID No.: 1A006
Relinquished by: <i>[Signature]</i>	Company: Ewu EH&S	Date/Time: 3/25/19	Received by: <i>[Signature]</i>	Company: TA SPT
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

Login Sample Receipt Checklist

Client: Eastern Washington University

Job Number: 590-10645-1

Login Number: 10645

List Source: TestAmerica Spokane

List Number: 1

Creator: Kratz, Sheila J

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.