

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-78169-1

Client Project/Site: 10325 Takilma Rd

For:

East Fork Agriculture, LLC
9543B Takilma Rd.
Cave Junction, Oregon 97523

Attn: Aaron Howard



Authorized for release by:
6/28/2018 12:27:44 PM

Kayse Zalmai, Project Manager I
(253)922-2310
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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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Case Narrative

Client: East Fork Agriculture, LLC
Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Job ID: 580-78169-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative 580-78169-1

Receipt

The sample was received on 6/19/2018 10:45 AM. The temperature of the cooler at receipt was 15.4° C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The COC was not relinquished by the client.

The following sample was received at the laboratory outside the required temperature criteria: 10325 Takilma Rd (580-78169-1). The sample was 15.4°C on receipt.

Metals

Method(s) 6010C: The continuing calibration verification (CCV) associated with batch 580-277326 recovered above the upper control limit for TI. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

General Chemistry

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

Definitions/Glossary

Client: East Fork Agriculture, LLC
Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Qualifiers

Metals

Qualifier

Qualifier Description

^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
L	A negative instrument reading had an absolute value greater than the reporting limit

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: East Fork Agriculture, LLC
 Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Client Sample ID: 10325 Takilma Rd

Lab Sample ID: 580-78169-1

Date Collected: 06/15/18 14:00

Matrix: Solid

Date Received: 06/19/18 10:45

Percent Solids: 88.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11		2.5		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Arsenic	ND		2.5		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Beryllium	ND		0.82		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Cadmium	ND		0.82		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Chromium	770		11		mg/Kg	☼	06/22/18 10:18	06/25/18 15:49	10
Copper	42		2.1		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Lead	5.4		1.2		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Nickel	1200		8.2		mg/Kg	☼	06/22/18 10:18	06/25/18 15:49	10
Selenium	ND		4.1		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Silver	ND		2.1		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Thallium	ND	^ L	4.1		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1
Zinc	76		3.3		mg/Kg	☼	06/22/18 10:18	06/25/18 15:45	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.028		mg/Kg	☼	06/25/18 12:25	06/25/18 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.3		0.1		%			06/19/18 17:17	1
Percent Moisture	11.7		0.1		%			06/19/18 17:17	1

QC Sample Results

Client: East Fork Agriculture, LLC
Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 580-277035/18-A
Matrix: Solid
Analysis Batch: 277326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 277035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		3.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Arsenic	ND		3.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Beryllium	ND		1.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Cadmium	ND		1.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Chromium	ND		1.3		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Copper	ND		2.5		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Lead	ND		1.5		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Nickel	ND		1.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Selenium	ND		5.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Silver	ND		2.5		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Thallium	ND		5.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1
Zinc	ND		4.0		mg/Kg		06/22/18 10:18	06/25/18 14:29	1

Lab Sample ID: LCS 580-277035/19-A
Matrix: Solid
Analysis Batch: 277326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 277035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	150	144		mg/Kg		96	80 - 120
Arsenic	200	193		mg/Kg		96	80 - 120
Beryllium	5.00	5.00		mg/Kg		100	80 - 120
Cadmium	5.00	4.99		mg/Kg		100	80 - 120
Chromium	20.0	21.1		mg/Kg		106	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	51.0		mg/Kg		102	80 - 120
Selenium	200	190		mg/Kg		95	80 - 120
Silver	30.0	30.5		mg/Kg		102	80 - 120
Thallium	200	198		mg/Kg		99	80 - 120
Zinc	200	197		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-277035/20-A
Matrix: Solid
Analysis Batch: 277326

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 277035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	150	148		mg/Kg		99	80 - 120	3	20
Arsenic	200	201		mg/Kg		100	80 - 120	4	20
Beryllium	5.00	5.18		mg/Kg		104	80 - 120	3	20
Cadmium	5.00	5.18		mg/Kg		104	80 - 120	4	20
Chromium	20.0	21.9		mg/Kg		110	80 - 120	4	20
Copper	25.0	25.2		mg/Kg		101	80 - 120	4	20
Lead	50.0	52.0		mg/Kg		104	80 - 120	4	20
Nickel	50.0	52.9		mg/Kg		106	80 - 120	4	20
Selenium	200	199		mg/Kg		100	80 - 120	5	20
Silver	30.0	31.8		mg/Kg		106	80 - 120	4	20
Thallium	200	235		mg/Kg		117	80 - 120	17	20
Zinc	200	202		mg/Kg		101	80 - 120	2	20

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QC Sample Results

Client: East Fork Agriculture, LLC
 Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-277291/16-A
 Matrix: Solid
 Analysis Batch: 277354

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 277291

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030		mg/Kg		06/25/18 12:25	06/25/18 17:24	1

Lab Sample ID: LCS 580-277291/17-A
 Matrix: Solid
 Analysis Batch: 277354

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 277291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.146		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 580-277291/18-A
 Matrix: Solid
 Analysis Batch: 277354

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 277291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.167	0.143		mg/Kg		86	80 - 120	2	20

Method: D 2216 - Percent Moisture

Lab Sample ID: 580-78169-1 DU
 Matrix: Solid
 Analysis Batch: 276737

Client Sample ID: 10325 Takilma Rd
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Solids	88.3		88.8		%		0.5	20
Percent Moisture	11.7		11.2		%		4	20

Lab Chronicle

Client: East Fork Agriculture, LLC
 Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Client Sample ID: 10325 Takilma Rd

Lab Sample ID: 580-78169-1

Date Collected: 06/15/18 14:00

Matrix: Solid

Date Received: 06/19/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	276737	06/19/18 17:17	BAH	TAL SEA

Client Sample ID: 10325 Takilma Rd

Lab Sample ID: 580-78169-1

Date Collected: 06/15/18 14:00

Matrix: Solid

Date Received: 06/19/18 10:45

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			277035	06/22/18 10:18	CJB	TAL SEA
Total/NA	Analysis	6010C		1	277326	06/25/18 15:45	HJM	TAL SEA
Total/NA	Prep	3050B			277035	06/22/18 10:18	CJB	TAL SEA
Total/NA	Analysis	6010C		10	277326	06/25/18 15:49	HJM	TAL SEA
Total/NA	Prep	7471A			277291	06/25/18 12:25	CJB	TAL SEA
Total/NA	Analysis	7471A		1	277354	06/25/18 17:56	FCW	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: East Fork Agriculture, LLC
Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Laboratory: TestAmerica Seattle

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	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	10-31-18
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: East Fork Agriculture, LLC
Project/Site: 10325 Takilma Rd

TestAmerica Job ID: 580-78169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-78169-1	10325 Takilma Rd	Solid	06/15/18 14:00	06/19/18 10:45

- 1
- 2
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TestAmerica Seattle
5755 8th Street East

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

78169

Tacoma, WA 98424-1317
phone 253.922.2310 fax 253.922.5047

Regulatory Program:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Aaron Howard		Site Contact:		Date: 6/15/18		COC No	
Your Company Name here East Fork Cultivars		Tel/Fax:		Lab Contact:		Carmen		_____ of _____ COCs	
Address: 10326 Takima Rd		Analysis Turnaround Time		[Blank grid for tracking]		Sampler: For Lab Use Only: Walk-in Client: Lab Sampling:		Job / SOG No:	
City/State/Zip Cave Junction, OR 97523		YAT number (from Desk)							
Phone: (503) 810-7120									
FAX: (503) 810-7120									
Project Name: 10326 Takima Rd		Sample Date		Sample Time		Sample Type		Sample Specific Notes	
Site:		6/15/18		2:00 PM		C		testing for Priority Pollutant Metals	
P.O. #									

Therm ID: IRY Cor: 15.4 Unc: 15.3
 Cooler Use: Box
 Packing: OT FedEx:
 Cust. Seal: Yes No X UPS:
 Wet/Dry/Dry Ice/None Other: UPS

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other: 1
 Possible Hazard Identification: N/A
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for this sample in the Comments Section if the goal is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained)



580-78169 Chain of Custody

Special Instructions/QC Requirements & Comments:

Custody Seal's In:	Custody Seal No.	Cooper Temp. (mC)	Obs'd:	Comp'd:	Therm ID No.:
Relinquished by	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory:	Company:	Date/Time:
			<u>B. J. J. J.</u>	<u>SEA TA</u>	<u>6/14/18 1045</u>

Form No. CA-C-WI-002, Rev. 4.14, dated 9/22/2017

Login Sample Receipt Checklist

Client: East Fork Agriculture, LLC

Job Number: 580-78169-1

Login Number: 78169

List Source: TestAmerica Seattle

List Number: 1

Creator: Blankinship, Tom X

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	Refer to Job Narrative for details.
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.	False	COC not relinquished.
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
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	container lacks sampling date and time.
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

