

ANALYTICAL REPORT

PREPARED FOR

Attn: Roger Brewer
Hawaii Department of Health
919 Ala Moana Blvd
Room 206
Honolulu, Hawaii 96814

Generated 5/21/2024 1:26:54 PM Revision 1

JOB DESCRIPTION

Landfill Leachate_AOF

JOB NUMBER

320-107863-2

Eurofins Sacramento

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

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: Hawaii Department of Health
Project: Landfill Leachate_AOF

Job ID: 320-107863-2

Job ID: 320-107863-2

Eurofins Sacramento

Job Narrative 320-107863-2 Rev (1)

Revision 1

The sample ID has been corrected to WGLF-4B (320-107863-2).

Comments

This report contains only AOF data.

Receipt

The samples were received on 12/8/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

LCMS- AOF

Method ELLE SOP: A reduced volume was used due to matrix and the reporting limits have been raised for the following samples: WGLF-E8 ASH (320-107863-1), WGLF-4B (320-107863-2) and WGLF-E6 (320-107863-3).

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

Organic Prep

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

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Detection Summary

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Client Sample ID: WGLF-E8 ASH

Lab Sample ID: 320-107863-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Adsorbable Organic Fluorine (AOF)	13		10	5.0	ug/L	1		ELLE SOP	Total/NA

Client Sample ID: WGLF-4B

Lab Sample ID: 320-107863-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Adsorbable Organic Fluorine (AOF)	51		40	20	ug/L	1		ELLE SOP	Total/NA

Client Sample ID: WGLF-E6

Lab Sample ID: 320-107863-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Adsorbable Organic Fluorine (AOF)	83		40	20	ug/L	1		ELLE SOP	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Client Sample ID: WGLF-E8 ASH

Lab Sample ID: 320-107863-1

Date Collected: 12/05/23 09:26

Matrix: Water

Date Received: 12/08/23 09:20

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	13		10	5.0	ug/L		01/10/24 10:20	01/10/24 15:42	1

- 1
- 2
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- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Client Sample ID: WGLF-4B

Lab Sample ID: 320-107863-2

Date Collected: 12/05/23 09:40

Matrix: Water

Date Received: 12/08/23 09:20

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	51		40	20	ug/L		01/12/24 09:54	01/12/24 12:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Client Sample ID: WGLF-E6

Lab Sample ID: 320-107863-3

Date Collected: 12/05/23 08:56

Matrix: Water

Date Received: 12/08/23 09:20

Method: ELLE - Lancaster ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	83		40	20	ug/L		01/12/24 09:54	01/12/24 13:48	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Hawaii Department of Health
 Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Method: ELLE SOP - Total or Organic Fluorine by Combustion Ion Chromatography

Lab Sample ID: MB 410-461975/1-A
Matrix: Water
Analysis Batch: 462508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 461975

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	ND		2.0	1.0	ug/L		01/10/24 10:20	01/10/24 11:24	1

Lab Sample ID: LCS 410-461975/2-A
Matrix: Water
Analysis Batch: 462508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 461975

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Adsorbable Organic Fluorine (AOF)	20.3	22.3		ug/L		110	75 - 125

Lab Sample ID: LCSD 410-461975/3-A
Matrix: Water
Analysis Batch: 462508

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 461975

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Adsorbable Organic Fluorine (AOF)	20.3	21.8		ug/L		108	75 - 125	2	

Lab Sample ID: MB 410-462873/1-A
Matrix: Water
Analysis Batch: 463179

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Adsorbable Organic Fluorine (AOF)	ND		2.0	1.0	ug/L		01/12/24 09:54	01/12/24 11:04	1

Lab Sample ID: LCS 410-462873/2-A
Matrix: Water
Analysis Batch: 463179

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Adsorbable Organic Fluorine (AOF)	20.3	21.9		ug/L		108	75 - 125

Lab Sample ID: LCSD 410-462873/3-A
Matrix: Water
Analysis Batch: 463179

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 462873

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Adsorbable Organic Fluorine (AOF)	20.3	21.5		ug/L		106	75 - 125	1	

QC Association Summary

Client: Hawaii Department of Health
 Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

LCMS

Prep Batch: 461975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-107863-1	WGLF-E8 ASH	Total/NA	Water	NONE	
MB 410-461975/1-A	Method Blank	Total/NA	Water	NONE	
LCS 410-461975/2-A	Lab Control Sample	Total/NA	Water	NONE	
LCSD 410-461975/3-A	Lab Control Sample Dup	Total/NA	Water	NONE	

Analysis Batch: 462508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-107863-1	WGLF-E8 ASH	Total/NA	Water	ELLE SOP	461975
MB 410-461975/1-A	Method Blank	Total/NA	Water	ELLE SOP	461975
LCS 410-461975/2-A	Lab Control Sample	Total/NA	Water	ELLE SOP	461975
LCSD 410-461975/3-A	Lab Control Sample Dup	Total/NA	Water	ELLE SOP	461975

Prep Batch: 462873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-107863-2	WGLF-4B	Total/NA	Water	NONE	
320-107863-3	WGLF-E6	Total/NA	Water	NONE	
MB 410-462873/1-A	Method Blank	Total/NA	Water	NONE	
LCS 410-462873/2-A	Lab Control Sample	Total/NA	Water	NONE	
LCSD 410-462873/3-A	Lab Control Sample Dup	Total/NA	Water	NONE	

Analysis Batch: 463179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-107863-2	WGLF-4B	Total/NA	Water	ELLE SOP	462873
320-107863-3	WGLF-E6	Total/NA	Water	ELLE SOP	462873
MB 410-462873/1-A	Method Blank	Total/NA	Water	ELLE SOP	462873
LCS 410-462873/2-A	Lab Control Sample	Total/NA	Water	ELLE SOP	462873
LCSD 410-462873/3-A	Lab Control Sample Dup	Total/NA	Water	ELLE SOP	462873

Lab Chronicle

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Client Sample ID: WGLF-E8 ASH

Lab Sample ID: 320-107863-1

Date Collected: 12/05/23 09:26

Matrix: Water

Date Received: 12/08/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	NONE			20 mL	0.2 mL	461975	01/10/24 10:20	QLP7	ELLE
Total/NA	Analysis	ELLE SOP		1			462508	01/10/24 15:42	F9DU	ELLE

Client Sample ID: WGLF-4B

Lab Sample ID: 320-107863-2

Date Collected: 12/05/23 09:40

Matrix: Water

Date Received: 12/08/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	NONE			5 mL	0.2 mL	462873	01/12/24 09:54	QLP7	ELLE
Total/NA	Analysis	ELLE SOP		1			463179	01/12/24 12:43	F9DU	ELLE

Client Sample ID: WGLF-E6

Lab Sample ID: 320-107863-3

Date Collected: 12/05/23 08:56

Matrix: Water

Date Received: 12/08/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	NONE			5 mL	0.2 mL	462873	01/12/24 09:54	QLP7	ELLE
Total/NA	Analysis	ELLE SOP		1			463179	01/12/24 13:48	F9DU	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	N/A	01-31-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
ELLE SOP	NONE	Water	Adsorbable Organic Fluorine (AOF)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Method	Method Description	Protocol	Laboratory
ELLE SOP	Total or Organic Fluorine by Combustion Ion Chromatography	ELLE - Lancaster	ELLE
NONE	Preparation, Fluorine	ELLE - Lancaster	ELLE

Protocol References:

ELLE - Lancaster = Eurofins Lancaster, Facility Standard Operating Procedure.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Sample Summary

Client: Hawaii Department of Health
Project/Site: Landfill Leachate_AOF

Job ID: 320-107863-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-107863-1	WGLF-E8 ASH	Water	12/05/23 09:26	12/08/23 09:20
320-107863-2	WGLF-4B	Water	12/05/23 09:40	12/08/23 09:20
320-107863-3	WGLF-E6	Water	12/05/23 08:56	12/08/23 09:20

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Invoice To:

Address: TetraTech
737 Bishop St, Ste 2340
Honolulu, HI 96813

Contact: Eric Jensen
808-225-7084
eric.jensen@tetratech.com
Report also to: roger.brewer@doh.hawaii.gov

Chain of Custody Record

703580



Environment Testing
America

Regulatory Program: DW NPDES RCRA Other:

TAL-8210

Client Contact		Site Contact		Date	
Company Name: Hawaii Dept of Health		Lab Contact:		Carrier:	
Address: 2385 Waimano Home Rd #100		Performs MSD (Y/N)		COC No. of COCs	
City/State/Zip: Pearl City HI 96872		Filtered Sample (Y/N)		Sampler:	
Phone: 1-808-586-4249		Sample Date		For Lab Use Only:	
Fax:		Sample Time		Walk-in Client:	
Project Name: Landfill Leachate		Sample Type (G-Comp, G-Grab)		Lab Sampling:	
P O #		Matrix		Job / SDG No.:	
Sample Identification		# of Cont.		Sample Specific Notes:	
WGLF-ASH	12/15/23	6	110	7	Not Sampled
WGLF-E8 ASH	12/15/23 9:26	6	11	7	
WGLF-4B (letter B)	12/15/23 9:40	6	11	7	
WGLF-E1 (B1)	12/15/23	6	11	7	
WGLF-E6	12/15/23 8:56	6	11	7	Not Sampled
WGLF-E6B	12/15/23 8:12	6	11	7	Not Sampled



320-107863 Chain of Custody

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

Special Instructions/QC Requirements & Comments:
Filter all samples except WGLF-E6B

Custody Seal No.: Yes No

Relinquished by: *Maan Keshav H / MSD R*
Relinquished by: *Roger B*
Relinquished by:

Company: *Event Environment 1*
Company: *Feder*
Company:

Date/Time: *12/15/23 11:45*
Date/Time: *12/15/23 10:00*
Date/Time:

Received by: *Roger B*
Received by: *Maan Keshav H*
Received in Laboratory by:

Company: *MSDH*
Company: *EETASAC*
Company:

Date/Time: *12/15/23 11:45*
Date/Time: *12/15/23 9:20*
Date/Time:

Therm ID No.: *5.6*
Cooler Temp. (°C): Obs'd: *5.6*
Corrd:

Return to Client Disposal by Lab Archive for: _____ Months

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





Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc 320
107863

Tracking # 8170 3101 6462

Job _____

SO (PO) FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal Cooler Custody Seal Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm ID <u>L-11</u> Corr Factor (+/-) <u>NA</u> °C	Notes _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice _____ Wet _____ Gel <input checked="" type="checkbox"/> Other _____	
Cooler Custody Seal <u>2100594</u>	
Cooler ID _____	
Temp Observed <u>5.6</u> °C Corrected <u>5.6</u> °C From Temp Blank <input checked="" type="checkbox"/> Sample <input type="checkbox"/>	
Opening/Processing The Shipment	
Cooler compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Frozen samples show signs of thaw? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Initials <u>QNH</u> Date <u>12/8/23</u>	
Unpacking/Labeling The Samples	Trizma Lot #(s) _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Containers are not broken or leaking? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Samples compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
COC is complete w/o discrepancies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample custody seal? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Sample containers have legible labels? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample date/times are provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Appropriate containers are used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample bottles are completely filled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample preservatives verified? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Is the Field Sampler's name on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	Ammonium Acetate Lot #(s) _____ _____ _____ _____
Samples w/o discrepancies? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Zero headspace?* <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Alkalinity has no headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Perchlorate has headspace? (Methods 314, 331 6850) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Multiphasic samples are not present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Login Completion
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")	
Initials <u>AN</u> Date <u>12/8/23</u>	Receipt Temperature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Initials <u>AN</u> Date <u>12/8/23</u>	NCM Filed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
	Samples received within hold time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
	Log Release checked in TALS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Login Sample Receipt Checklist

Client: Hawaii Department of Health

Job Number: 320-107863-2

Login Number: 107863

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 12/19/23 01:00 PM

Creator: Arroyo, Haley

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

