



13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

August 30, 2024

The Klamath Tribes  
ATTN: Teresa Coley  
5671 Sprague River Road  
Chiloquin, OR 97624  
Teresa.coley@klamathtribes.com

RE: Project KLA-AL2201

Dear Teresa,

On August 14, 2024, Brooks Applied Labs (BAL) received eight (8) water samples. The samples were logged-in for the analyses of methylmercury (MeHg) according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

Methyl Mercury using MERX

Water samples were pre-preserved with hydrochloric acid. The preserved samples were distilled and analyzed via EPA Method 1630.

B242075

The sample 2408159-01 is a blank that had results above the MRL. The sample was reanalyzed, and the results confirmed.

The samples arrived at a temperature of 21.5 °C; therefore the results were qualified H.

The results were method blank corrected, as described in the calculations section of the relevant BAL SOP(s) and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results. Please feel free to contact us if you have any questions regarding this report.



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Sincerely,

A handwritten signature in black ink that reads "Esther Velasquez".

Esther Velasquez  
Project Manager  
Brooks Applied Labs  
esther@brooksapplied.com



## Report Information

### General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received. This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

### Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

**ISO:** ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

**TNI:** NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

**ISO,TNI:** Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

<b>AR</b>	as received	<b>MS</b>	matrix spike
<b>BAL</b>	Brooks Applied Labs	<b>MSD</b>	matrix spike duplicate
<b>BLK</b>	method blank	<b>ND</b>	non-detect
<b>BS</b>	blank spike	<b>NR</b>	non-reportable
<b>CAL</b>	calibration standard	<b>N/C</b>	not calculated
<b>CCB</b>	continuing calibration blank	<b>PS</b>	post preparation spike
<b>CCV</b>	continuing calibration verification	<b>REC</b>	percent recovery
<b>COC</b>	chain of custody record	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>SCV</b>	secondary calibration verification
<b>DUP</b>	duplicate	<b>SOP</b>	standard operating procedure
<b>IBL</b>	instrument blank	<b>SRM</b>	reference material
<b>ICV</b>	initial calibration verification	<b>T</b>	total fraction
<b>MDL</b>	method detection limit	<b>TR</b>	total recoverable fraction
<b>MRL</b>	method reporting limit		

### Definition of Data Qualifiers

<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Please see narrative for explanation.
<b>J</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>J-1</b>	Estimated value. A full explanation is presented in the narrative.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
<b>N</b>	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
<b>Z</b>	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.



## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
4080703-01	2408159-01	Freshwater	Trip Blank	08/06/2024	08/14/2024
4080703-02	2408159-02	Freshwater	Sample	08/06/2024	08/14/2024
4080703-03	2408159-03	Freshwater	Sample	08/06/2024	08/14/2024
4080706-01	2408159-04	Freshwater	Sample	08/06/2024	08/14/2024
4080706-02	2408159-05	Freshwater	Sample	08/06/2024	08/14/2024
4080706-03	2408159-06	Freshwater	Sample	08/06/2024	08/14/2024
4080706-04	2408159-07	Freshwater	Sample	08/06/2024	08/14/2024
4080706-05	2408159-08	Freshwater	Sample	08/06/2024	08/14/2024

## Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	ISO,TNI	08/26/24	08/28/24	B242075	S240830



## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>4080703-01</b> 2408159-01	MeHg	Freshwater	TR	0.067	H	0.023	0.050	ng/L	B242075	S240830
<b>4080703-02</b> 2408159-02	MeHg	Freshwater	TR	0.140	H	0.023	0.051	ng/L	B242075	S240830
<b>4080703-03</b> 2408159-03	MeHg	Freshwater	TR	0.117	H	0.023	0.050	ng/L	B242075	S240830
<b>4080706-01</b> 2408159-04	MeHg	Freshwater	TR	0.128	H	0.046	0.100	ng/L	B242075	S240830
<b>4080706-02</b> 2408159-05	MeHg	Freshwater	TR	0.030	H J	0.022	0.048	ng/L	B242075	S240830
<b>4080706-03</b> 2408159-06	MeHg	Freshwater	TR	0.247	H	0.047	0.102	ng/L	B242075	S240830
<b>4080706-04</b> 2408159-07	MeHg	Freshwater	TR	0.203	H	0.046	0.100	ng/L	B242075	S240830
<b>4080706-05</b> 2408159-08	MeHg	Freshwater	TR	0.148	H	0.046	0.100	ng/L	B242075	S240830



## Accuracy & Precision Summary

Batch: B242075  
 Lab Matrix: Water  
 Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242075-BS1	Blank Spike, (2432045) MeHg		1.000	0.851	ng/L	85% 67-133	
B242075-MS3	Matrix Spike (2408159-02) MeHg	0.140	1.000	1.137	ng/L	100% 65-135	
B242075-MSD3	Matrix Spike Duplicate (2408159-02) MeHg	0.140	1.000	1.138	ng/L	100% 65-135	0.04% 35

## Method Blanks & Reporting Limits

Batch: B242075  
 Matrix: Water  
 Method: EPA 1630  
 Analyte: MeHg

Sample	Result	Units
B242075-BLK1	0.007	ng/L
B242075-BLK2	0.004	ng/L
B242075-BLK3	0.005	ng/L
B242075-BLK4	0.004	ng/L
<b>Average:</b>	0.005	
<b>Limit:</b>	0.049	
<b>Standard Deviation:</b>	0.001	
<b>Limit:</b>	0.023	
<b>MDL:</b>	0.023	
<b>MRL:</b>	0.049	



## Sample Containers

<b>Lab ID:</b> 2408159-01 <b>Sample:</b> 4080703-01 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 24-0015	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Trip Blank <b>Preservation</b> 2 mL 6N HCl (PP)	<b>P-Lot</b> 2421005	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2408159
<b>Lab ID:</b> 2408159-02 <b>Sample:</b> 4080703-02 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 24-0015	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2 mL 6N HCl (PP)	<b>P-Lot</b> 2421005	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2408159
<b>Lab ID:</b> 2408159-03 <b>Sample:</b> 4080703-03 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 24-0015	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2 mL 6N HCl (PP)	<b>P-Lot</b> 2421005	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2408159
<b>Lab ID:</b> 2408159-04 <b>Sample:</b> 4080706-01 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 24-0015	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2 mL 6N HCl (PP)	<b>P-Lot</b> 2421005	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2408159
<b>Lab ID:</b> 2408159-05 <b>Sample:</b> 4080706-02 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 24-0015	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2 mL 6N HCl (PP)	<b>P-Lot</b> 2421005	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2408159
<b>Lab ID:</b> 2408159-06 <b>Sample:</b> 4080706-03 <b>Des Container</b> A Bottle FLPE MeHg	<b>Size</b> 250 mL	<b>Lot</b> 24-0015	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b> 2 mL 6N HCl (PP)	<b>P-Lot</b> 2421005	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b> <b>Ship. Cont.</b> <2 Cooler - 2408159

**Project ID:** KLA-AL2201  
**PM:** Esther Velasquez



BAL Report 2408159  
**Client PM:** Teresa Coley  
**Client Project:** KLA-AL2201

## Sample Containers

<b>Lab ID:</b> 2408159-07 <b>Sample:</b> 4080706-04 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b>	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b>	<b>Ship. Cont.</b>
A Bottle FLPE MeHg	250 mL	24-0015	2 mL 6N HCl (PP)	2421005	<2	Cooler - 2408159
<b>Lab ID:</b> 2408159-08 <b>Sample:</b> 4080706-05 <b>Des Container</b>	<b>Size</b>	<b>Lot</b>	<b>Report Matrix:</b> Freshwater <b>Sample Type:</b> Sample <b>Preservation</b>	<b>P-Lot</b>	<b>Collected:</b> 08/06/2024 <b>Received:</b> 08/14/2024 <b>pH</b>	<b>Ship. Cont.</b>
A Bottle FLPE MeHg	250 mL	24-0015	2 mL 6N HCl (PP)	2421005	<2	Cooler - 2408159

## Shipping Containers

### Cooler - 2408159

**Received:** August 14, 2024 9:52  
**Tracking No:** 1Z F72 57F 22 1000 880 5 via UP  
**Coolant Type:** Ice  
**Temperature:** 21.5 °C

**Description:** Cooler  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** R-IR-3, coolant melted

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes





# Chain-of-Custody Form

BAL Report 2408159

Ship samples to:  
 13751 Lake City Way NE, Suite 108  
 Seattle, WA 98125

Received by: AV For BAL use only Date: 8/14/24  
 Work Order ID: \_\_\_\_\_ Time: 9:52  
 Project ID: \_\_\_\_\_

Client: Sprague River Water Quality Lab  
 Contact: Teresa Coley  
 Client Project ID:  
 Samples Collected By: RES Field Teams

PO Number:  
 Phone: (541) 827-5231  
 Email: teresa.coley@klamathtribes.com

Mailing Address:  
 Email Receipt Confirmation? Yes  
 BAL PM:

Requested TAT (business days) <input checked="" type="checkbox"/> 20 (standard) <input type="checkbox"/> 15* <input type="checkbox"/> 10* <input type="checkbox"/> 5* <input type="checkbox"/> Other _____ <small>*Surcharges may apply to expedited TATs</small>		Collection		Client Sample Info				BAL Analyses Required							Comments		
		Date	Time	Matrix Type	Number of Containers	Field Filtered?	Preservation Type	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify)	Se Species (specify)	Filtration	Other (specify here)		Other (specify here)	
Sample ID																	Specify Here
1	4080703-01	08/06/24	08:23	Freshwater	1	No	HCl		✓								
2	4080703-02	08/06/24	11:26	Freshwater	1	No	HCl		✓								
3	4080703-03	08/06/24	10:12	Freshwater	1	No	HCl		✓								
4	4080706-01	08/06/24	08:15	Freshwater	1	No	HCl		✓								
5	4080706-02	08/06/24	08:01	Freshwater	1	No	HCl		✓								
6	4080706-03	08/06/24	10:19	Freshwater	1	No	HCl		✓								
7	4080706-04	08/06/24	12:30	Freshwater	1	No	HCl		✓								
8	4080706-05	08/06/24	13:31	Freshwater	1	No	HCl		✓								
9																	
10																	
Trip Blank (specify)																	
Relinquished By: <u>Tessalray</u>		Date: <u>8-7-24</u>		Time: <u>14:18</u>		Relinquished By:					Date:		Time:				
Received By:		Date:		Time:		Total Number of Packages:											