

4 Justin Court Suite D  
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Phone: (831) 375-MBAS (6227)  
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ELAP Certification Number: 2385

## Certificate of Analysis

February 17, 2025

EH-WQ Lab/E. Baugher  
County of Santa Cruz Water Quality Lab EH-WQLab  
1060 Emeline Ave B-1  
Santa Cruz, CA 95060

Thank you for using Monterey Bay Analytical Services for your analytical testing needs.  
In the following pages please find the test results for the samples submitted February 03, 2025  
for order ID #: 250203\_072

Sample results are on the Sample Results page and are related only to the samples analyzed.

The samples were analyzed in accordance with the attached Chain of Custody document.  
Sample receipt conditions were noted on the chain of custody forms and are reported at the end  
of this report. Any deviations from the quality requirements are specified in the Quality Control  
report attached (if applicable) to the analytical report.

This certificate of analysis shall not be reproduced except in full, without written approval of the  
laboratory.

Authorized by



David Holland  
Laboratory Director  
Monterey Bay Analytical Services



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Monday, February 17, 2025

## Sample Results

**Lab Number: 250203\_072-01      Sample Description: Forest Lakes MWC Fire Protection Lake Site #1**

Collection Date/Time: 1/30/2025 9:57      Sample Collector: Dominik, C      Client Sample #: 167737  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.2	1	J	1	0.1	2/10/2025 18:27	HC
Lithium	EPA200.8	µg/L	11.4	1		0.5	0.1	2/10/2025 18:27	HC
Manganese, Total	EPA200.8	µg/L	19	1		5	1	2/10/2025 18:27	HC
Nickel, Total	EPA200.8	µg/L	1.3	1	J	5	0.5	2/10/2025 18:27	HC

**Lab Number: 250203\_072-02      Sample Description: Forest Lakes MWC Fire Protection Lake Site #2**

Collection Date/Time: 1/30/2025 9:58      Sample Collector: Dominik, C      Client Sample #: 167738  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.2	1	J	1	0.1	2/10/2025 18:30	HC
Lithium	EPA200.8	µg/L	11.4	1		0.5	0.1	2/10/2025 18:30	HC
Manganese, Total	EPA200.8	µg/L	20	1		5	1	2/10/2025 18:30	HC
Nickel, Total	EPA200.8	µg/L	1.4	1	J	5	0.5	2/10/2025 18:30	HC

**Lab Number: 250203\_072-03      Sample Description: Forest Lakes MWC Fire Protection Lake Site #3**

Collection Date/Time: 1/30/2025 10:01      Sample Collector: Dominik, C      Client Sample #: 167739  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.2	1	J	1	0.1	2/10/2025 18:34	HC
Lithium	EPA200.8	µg/L	11.2	1		0.5	0.1	2/10/2025 18:34	HC
Manganese, Total	EPA200.8	µg/L	18	1		5	1	2/10/2025 18:34	HC
Nickel, Total	EPA200.8	µg/L	1.4	1	J	5	0.5	2/10/2025 18:34	HC

**Lab Number: 250203\_072-04      Sample Description: Loch Lomond Site 1**

Collection Date/Time: 1/30/2025 8:40      Sample Collector: Dominik, C      Client Sample #: 167740  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.2	1	J	1	0.1	2/10/2025 18:37	HC
Lithium	EPA200.8	µg/L	22.3	1		0.5	0.1	2/10/2025 18:37	HC
Manganese, Total	EPA200.8	µg/L	10	1		5	1	2/10/2025 18:37	HC
Nickel, Total	EPA200.8	µg/L	4.2	1	J	5	0.5	2/10/2025 18:37	HC



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**Lab Number: 250203\_072-05      Sample Description: Loch Lomond Site 2**

Collection Date/Time: 1/30/2025 8:52      Sample Collector: Dominik, C      Client Sample #: 167741

Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.2	1	J	1	0.1	2/10/2025 18:41	HC
Lithium	EPA200.8	µg/L	24.4	1		0.5	0.1	2/10/2025 18:41	HC
Manganese, Total	EPA200.8	µg/L	11	1		5	1	2/10/2025 18:41	HC
Nickel, Total	EPA200.8	µg/L	4.6	1	J	5	0.5	2/10/2025 18:41	HC

**Lab Number: 250203\_072-06      Sample Description: Loch Lomond Site 3**

Collection Date/Time: 1/30/2025 9:01      Sample Collector: Dominik, C      Client Sample #: 167742

Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.2	1	J	1	0.1	2/10/2025 18:45	HC
Lithium	EPA200.8	µg/L	22.7	1		0.5	0.1	2/10/2025 18:45	HC
Manganese, Total	EPA200.8	µg/L	13	1		5	1	2/10/2025 18:45	HC
Nickel, Total	EPA200.8	µg/L	4.2	1	J	5	0.5	2/10/2025 18:45	HC

**Lab Number: 250203\_072-07      Sample Description: Antonelli Pond Site 1**

Collection Date/Time: 1/30/2025 10:39      Sample Collector: Dominik, C      Client Sample #: 167743

Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.9	1	J	1	0.1	2/13/2025 18:30	HC
Lithium	EPA200.8	µg/L	9.6	1		0.5	0.1	2/13/2025 18:30	HC
Manganese, Total	EPA200.8	µg/L	660	1		5	1	2/13/2025 18:30	HC
Nickel, Total	EPA200.8	µg/L	8.9	1		5	0.5	2/13/2025 18:30	HC

**Lab Number: 250203\_072-08      Sample Description: Antonelli Pond Site 2**

Collection Date/Time: 1/30/2025 10:58      Sample Collector: Dominik, C      Client Sample #: 166744

Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.5	1	J	1	0.1	2/13/2025 18:34	HC
Lithium	EPA200.8	µg/L	9.8	1		0.5	0.1	2/13/2025 18:34	HC
Manganese, Total	EPA200.8	µg/L	269	1		5	1	2/13/2025 18:34	HC
Nickel, Total	EPA200.8	µg/L	8.4	1		5	0.5	2/13/2025 18:34	HC



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**Lab Number: 250203\_072-09      Sample Description: Antonelli Pond near Delaware**

Collection Date/Time: 1/30/2025 10:33      Sample Collector: Dominik, C      Client Sample #: 166745  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.5	1	J	1	0.1	2/13/2025 18:38	HC
Lithium	EPA200.8	µg/L	9.5	1		0.5	0.1	2/13/2025 18:38	HC
Manganese, Total	EPA200.8	µg/L	230	1		5	1	2/13/2025 18:38	HC
Nickel, Total	EPA200.8	µg/L	8.4	1		5	0.5	2/13/2025 18:38	HC

**Lab Number: 250203\_072-10      Sample Description: PL-16-Pinto Lake at County Dock**

Collection Date/Time: 1/30/2025 10:46      Sample Collector: Dominik, C      Client Sample #: 166746  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.4	1	J	1	0.1	2/13/2025 18:41	HC
Lithium	EPA200.8	µg/L	1.5	1		0.5	0.1	2/13/2025 18:41	HC
Manganese, Total	EPA200.8	µg/L	352	1		5	1	2/13/2025 18:41	HC
Nickel, Total	EPA200.8	µg/L	4.4	1	J	5	0.5	2/13/2025 18:41	HC

**Lab Number: 250203\_072-11      Sample Description: PL-0-Pinto Lake at Boat Rental**

Collection Date/Time: 1/30/2025 11:04      Sample Collector: Dominik, C      Client Sample #: 166747  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.4	1	J	1	0.1	2/13/2025 18:45	HC
Lithium	EPA200.8	µg/L	1.5	1		0.5	0.1	2/13/2025 18:45	HC
Manganese, Total	EPA200.8	µg/L	403	1		5	1	2/13/2025 18:45	HC
Nickel, Total	EPA200.8	µg/L	4.6	1	J	5	0.5	2/13/2025 18:45	HC

**Lab Number: 250203\_072-12      Sample Description: PL-11-Pinto Lake at Villas Del Paraiso**

Collection Date/Time: 1/30/2025 11:14      Sample Collector: Dominik, C      Client Sample #: 166748  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.4	1	J	1	0.1	2/13/2025 18:49	HC
Lithium	EPA200.8	µg/L	1.5	1		0.5	0.1	2/13/2025 18:49	HC
Manganese, Total	EPA200.8	µg/L	389	1		5	1	2/13/2025 18:49	HC
Nickel, Total	EPA200.8	µg/L	4.4	1	J	5	0.5	2/13/2025 18:49	HC



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Monday, February 17, 2025

**Lab Number: 250203\_072-13     Sample Description: K01-Kelly Lake at Ramp**

Collection Date/Time: 1/30/2025 9:12     Sample Collector: Dominik, C     Client Sample #: 166750

Received Date/Time: 2/3/2025 16:36     System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.7	1	J	1	0.1	2/13/2025 18:52	HC
Lithium	EPA200.8	µg/L	1.9	1		0.5	0.1	2/13/2025 18:52	HC
Manganese, Total	EPA200.8	µg/L	198	1		5	1	2/13/2025 18:52	HC
Nickel, Total	EPA200.8	µg/L	11.2	1		5	0.5	2/13/2025 18:52	HC

**Lab Number: 250203\_072-14     Sample Description: K03-Kelly Lake-Cutter**

Collection Date/Time: 1/30/2025 9:24     Sample Collector: Dominik, C     Client Sample #: 166751

Received Date/Time: 2/3/2025 16:36     System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.6	1	J	1	0.1	2/13/2025 18:56	HC
Lithium	EPA200.8	µg/L	1.8	1		0.5	0.1	2/13/2025 18:56	HC
Manganese, Total	EPA200.8	µg/L	206	1		5	1	2/13/2025 18:56	HC
Nickel, Total	EPA200.8	µg/L	11.5	1		5	0.5	2/13/2025 18:56	HC

**Lab Number: 250203\_072-15     Sample Description: K04-Kelly Lake Site 4 Pajaro Rod and Gun Club**

Collection Date/Time: 1/30/2025 10:03     Sample Collector: Dominik, C     Client Sample #: 166752

Received Date/Time: 2/3/2025 16:36     System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	1.0	1		1	0.1	2/13/2025 18:59	HC
Lithium	EPA200.8	µg/L	2.4	1		0.5	0.1	2/13/2025 18:59	HC
Manganese, Total	EPA200.8	µg/L	269	1		5	1	2/13/2025 18:59	HC
Nickel, Total	EPA200.8	µg/L	13.0	1		5	0.5	2/13/2025 18:59	HC

**Lab Number: 250203\_072-16     Sample Description: DREW-1-Drew Lake**

Collection Date/Time: 1/30/2025 8:46     Sample Collector: Dominik, C     Client Sample #: 166753

Received Date/Time: 2/3/2025 16:36     System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.9	1	J	1	0.1	2/13/2025 19:03	HC
Lithium	EPA200.8	µg/L	2.2	1		0.5	0.1	2/13/2025 19:03	HC
Manganese, Total	EPA200.8	µg/L	611	1	LN	5	1	2/13/2025 19:03	HC
<i>LN: MS and/or MSD below acceptance limits.</i>									
Nickel, Total	EPA200.8	µg/L	8.2	1		5	0.5	2/13/2025 19:03	HC



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**Lab Number: 250203\_072-17      Sample Description: DREW-2-Drew Lake Site 2**

Collection Date/Time: 1/30/2025 8:58      Sample Collector: Dominik, C      Client Sample #: 166754  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	1.0	1		1	0.1	2/13/2025 19:47	HC
Lithium	EPA200.8	µg/L	2.2	1		0.5	0.1	2/13/2025 19:47	HC
Manganese, Total	EPA200.8	µg/L	633	1		5	1	2/13/2025 19:47	HC
Nickel, Total	EPA200.8	µg/L	8.7	1		5	0.5	2/13/2025 19:47	HC

**Lab Number: 250203\_072-18      Sample Description: DREW-3-Drew Lake Site 3 -Brushwood Lane**

Collection Date/Time: 1/30/2025 10:23      Sample Collector: Dominik, C      Client Sample #: 166755  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	0.9	1	J	1	0.1	2/13/2025 19:51	HC
Lithium	EPA200.8	µg/L	2.1	1		0.5	0.1	2/13/2025 19:51	HC
Manganese, Total	EPA200.8	µg/L	602	1		5	1	2/13/2025 19:51	HC
Nickel, Total	EPA200.8	µg/L	8.4	1		5	0.5	2/13/2025 19:51	HC

**Lab Number: 250203\_072-19      Sample Description: Watsonville Sloughs (WSTRU22)**

Collection Date/Time: 1/30/2025 11:34      Sample Collector: Dominik, C      Client Sample #: 166756  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	5.0	1		1	0.1	2/13/2025 19:54	HC
Lithium	EPA200.8	µg/L	10.8	1		0.5	0.1	2/13/2025 19:54	HC
Manganese, Total	EPA200.8	µg/L	390	1		5	1	2/13/2025 19:54	HC
Nickel, Total	EPA200.8	µg/L	21.5	1		5	0.5	2/13/2025 19:54	HC

**Lab Number: 250203\_072-20      Sample Description: Watsonville Sloughs (STRUV21)**

Collection Date/Time: 1/30/2025 11:46      Sample Collector: Dominik, C      Client Sample #: 166757  
Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	1.4	1		1	0.1	2/13/2025 19:58	HC
Lithium	EPA200.8	µg/L	5.3	1		0.5	0.1	2/13/2025 19:58	HC
Manganese, Total	EPA200.8	µg/L	1260	1		5	1	2/13/2025 19:58	HC
Nickel, Total	EPA200.8	µg/L	8.0	1		5	0.5	2/13/2025 19:58	HC



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**Lab Number: 250203\_072-21      Sample Description: Watsonville Sloughs (WATSO25)**

Collection Date/Time: 1/30/2025 12:29      Sample Collector: Dominik, C      Client Sample #: 166758

Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	2.2	1		1	0.1	2/13/2025 20:01	HC
Lithium	EPA200.8	µg/L	15.8	1		0.5	0.1	2/13/2025 20:01	HC
Manganese, Total	EPA200.8	µg/L	763	1		5	1	2/13/2025 20:01	HC
Nickel, Total	EPA200.8	µg/L	40.2	1		5	0.5	2/13/2025 20:01	HC

**Lab Number: 250203\_072-22      Sample Description: Watsonville Sloughs (WATSO23)**

Collection Date/Time: 1/30/2025 12:06      Sample Collector: Dominik, C      Client Sample #: 166759

Received Date/Time: 2/3/2025 16:36      System ID: Vistra Battery Fire Investigation

Analyte	Method	Unit	Result	Dilution	Qual	PQL	MDL	Analysis Date / Time	Analyst
Cobalt, Total	EPA200.8	µg/L	4.8	1		1	0.1	2/13/2025 20:05	HC
Lithium	EPA200.8	µg/L	14.3	1		0.5	0.1	2/13/2025 20:05	HC
Manganese, Total	EPA200.8	µg/L	2970	1		5	1	2/13/2025 20:05	HC
Nickel, Total	EPA200.8	µg/L	37.2	1		5	0.5	2/13/2025 20:05	HC



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### Quality Control Results

QCBatch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limits	%
QC25021113	250203_072-06: MS 1	Cobalt, Total	48.9	µg/L	97		70 - 130	
	250203_072-06: MSD 1	Cobalt, Total	49.2	µg/L	98	0.6	0 - 20	
	CCVB 1	Cobalt, Total	ND	µg/L				
	LCS 1	Cobalt, Total	49.3	µg/L	99		85 - 115	
	LCSD 1	Cobalt, Total	45.7	µg/L	91	7.6	0 - 20	
	Method Blank 1	Cobalt, Total	ND	µg/L				
	QCS 1	Cobalt, Total	52.4	µg/L	105		85 - 115	
QC25021405	250203_072-16: MS 1	Cobalt, Total	52.7	µg/L	104		70 - 130	
	250203_072-16: MSD 1	Cobalt, Total	54.0	µg/L	106	2.3	0 - 20	
	CCVB 1	Cobalt, Total	ND	µg/L				
	LCB 1	Cobalt, Total	ND	µg/L				
	LCS 1	Cobalt, Total	46.9	µg/L	94		85 - 115	
	LCSD 1	Cobalt, Total	50.0	µg/L	100	6.4	0 - 20	
	LFB 1	Cobalt, Total	51.7	µg/L	103		70 - 130	
	LFBD 1	Cobalt, Total	52.8	µg/L	106	2.0	0 - 20	
	Method Blank 1	Cobalt, Total	ND	µg/L				
	QCS 1	Cobalt, Total	49.0	µg/L	98		85 - 115	
QC25021406	250204_075-02: MS 1	Cobalt, Total	52.4	µg/L	104		70 - 130	
	250204_075-02: MSD 1	Cobalt, Total	54.2	µg/L	107	3.5	0 - 20	
	CCVB 1	Cobalt, Total	ND	µg/L				
	LCB 1	Cobalt, Total	ND	µg/L				
	LCS 1	Cobalt, Total	46.9	µg/L	94		85 - 115	
	LCSD 1	Cobalt, Total	52.4	µg/L	105	11.2	0 - 20	
	LFB 1	Cobalt, Total	52.8	µg/L	106		70 - 130	
	LFBD 1	Cobalt, Total	52.0	µg/L	104	1.6	0 - 20	
	Method Blank 1	Cobalt, Total	ND	µg/L				
	QCS 1	Cobalt, Total	48.7	µg/L	97		85 - 115	
QC25021113	250203_072-06: MS 1	Lithium	71.1	µg/L	97		70 - 130	
	250203_072-06: MSD 1	Lithium	73.4	µg/L	101	3.2	0 - 20	
	CCVB 1	Lithium	ND	µg/L				
	LCS 1	Lithium	48.9	µg/L	98		85 - 115	
	LCSD 1	Lithium	46.4	µg/L	93	5.4	0 - 20	
	Method Blank 1	Lithium	ND	µg/L				
	QCS 1	Lithium	52.3	µg/L	105		85 - 115	
QC25021405	250203_072-16: MS 1	Lithium	55.8	µg/L	107		70 - 130	
	250203_072-16: MSD 1	Lithium	57.0	µg/L	110	2.0	0 - 20	
	CCVB 1	Lithium	ND	µg/L				
	LCB 1	Lithium	ND	µg/L				
	LCS 1	Lithium	46.8	µg/L	94		85 - 115	
LCSD 1	Lithium	51.5	µg/L	103	9.7	0 - 20		

250203\_072





MONTEREY BAY ANALYTICAL SERVICES  
 CELEBRATING 25 YEARS | 1999-2024

County of Santa Cruz Water Quality Lab EH-WQL  
 EH-WQ Lab/E. Baugher  
 1060 Emeline Ave B-1  
 Santa Cruz, CA 95060

4 Justin Court Suite D, Monterey, CA 93940  
 831.375.MBAS (6227)  
 www.MBASinc.com

**ELAP Certification Number: 2385**

Monday, February 17, 2025

### Quality Control Results

QC Batch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limits	%
	LFB 1	Lithium	51.4	µg/L	103		70 - 130	
	LFBD 1	Lithium	52.9	µg/L	106	2.9	0 - 20	
	Method Blank 1	Lithium	ND	µg/L				
	QCS 1	Lithium	49.5	µg/L	99		85 - 115	
QC25021406	250204_075-02: MS 1	Lithium	53.1	µg/L	104		70 - 130	
	250204_075-02: MSD 1	Lithium	55.2	µg/L	108	3.9	0 - 20	
	CCVB 1	Lithium	ND	µg/L				
	LCB 1	Lithium	ND	µg/L				
	LCS 1	Lithium	46.8	µg/L	94		85 - 115	
	LCSD 1	Lithium	52.0	µg/L	104	10.6	0 - 20	
	LFB 1	Lithium	52.9	µg/L	106		70 - 130	
	LFBD 1	Lithium	52.4	µg/L	105	1.1	0 - 20	
	Method Blank 1	Lithium	ND	µg/L				
	QCS 1	Lithium	51.1	µg/L	102		85 - 115	
QC25021113	250203_072-06: MS 1	Manganese, Total	61.3	µg/L	97		70 - 130	
	250203_072-06: MSD 1	Manganese, Total	62.0	µg/L	98	1.1	0 - 20	
	CCVB 1	Manganese, Total	ND	µg/L				
	LCS 1	Manganese, Total	49.4	µg/L	99		85 - 115	
	LCSD 1	Manganese, Total	45.7	µg/L	91	7.8	0 - 20	
	Method Blank 1	Manganese, Total	ND	µg/L				
	QCS 1	Manganese, Total	51.0	µg/L	102		85 - 115	
QC25021405	250203_072-16: MS 1	Manganese, Total	644.7	µg/L	67		70 - 130	
	250203_072-16: MSD 1	Manganese, Total	640.6	µg/L	58	0.6	0 - 20	
	CCVB 1	Manganese, Total	ND	µg/L				
	LCB 1	Manganese, Total	ND	µg/L				
	LCS 1	Manganese, Total	47.0	µg/L	94		85 - 115	
	LCSD 1	Manganese, Total	52.5	µg/L	105	11.1	0 - 20	
	LFB 1	Manganese, Total	51.4	µg/L	103		70 - 130	
	LFBD 1	Manganese, Total	52.8	µg/L	106	2.9	0 - 20	
	Method Blank 1	Manganese, Total	ND	µg/L				
	QCS 1	Manganese, Total	48.5	µg/L	97		85 - 115	
QC25021406	250204_075-02: MS 1	Manganese, Total	92.8	µg/L	112		70 - 130	
	250204_075-02: MSD 1	Manganese, Total	96.0	µg/L	119	3.5	0 - 20	
	CCVB 1	Manganese, Total	ND	µg/L				
	LCB 1	Manganese, Total	ND	µg/L				
	LCS 1	Manganese, Total	47.0	µg/L	94		85 - 115	
	LCSD 1	Manganese, Total	52.4	µg/L	105	10.9	0 - 20	
	LFB 1	Manganese, Total	52.8	µg/L	106		70 - 130	
	LFBD 1	Manganese, Total	51.4	µg/L	103	2.7	0 - 20	
	Method Blank 1	Manganese, Total	ND	µg/L				

250203\_072



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**ELAP Certification Number: 2385**

Monday, February 17, 2025

### Quality Control Results

QC Batch ID	QC ID	Parameter	Results	Units	% Rec	% RPD	Control Limits	%
	QCS 1	Manganese, Total	48.6	µg/L	97		85 - 115	
QC25021113	250203_072-06: MS 1	Nickel, Total	52.0	µg/L	96		70 - 130	
	250203_072-06: MSD 1	Nickel, Total	51.9	µg/L	95	0.2	0 - 20	
	CCVB 1	Nickel, Total	ND	µg/L				
	LCS 1	Nickel, Total	49.0	µg/L	98		85 - 115	
	LCSD 1	Nickel, Total	45.4	µg/L	91	7.6	0 - 20	
	Method Blank 1	Nickel, Total	ND	µg/L				
	QCS 1	Nickel, Total	51.3	µg/L	103		85 - 115	
QC25021405	250203_072-16: MS 1	Nickel, Total	60.2	µg/L	104		70 - 130	
	250203_072-16: MSD 1	Nickel, Total	60.7	µg/L	105	0.9	0 - 20	
	CCVB 1	Nickel, Total	ND	µg/L				
	LCB 1	Nickel, Total	ND	µg/L				
	LCS 1	Nickel, Total	46.8	µg/L	94		85 - 115	
	LCSD 1	Nickel, Total	51.1	µg/L	102	8.9	0 - 20	
	LFB 1	Nickel, Total	52.1	µg/L	104		70 - 130	
	LFBD 1	Nickel, Total	52.1	µg/L	104	0.1	0 - 20	
	Method Blank 1	Nickel, Total	ND	µg/L				
	QCS 1	Nickel, Total	49.4	µg/L	99		85 - 115	
QC25021406	250204_075-02: MS 1	Nickel, Total	53.4	µg/L	104		70 - 130	
	250204_075-02: MSD 1	Nickel, Total	54.3	µg/L	105	1.7	0 - 20	
	CCVB 1	Nickel, Total	ND	µg/L				
	LCB 1	Nickel, Total	ND	µg/L				
	LCS 1	Nickel, Total	46.8	µg/L	94		85 - 115	
	LCSD 1	Nickel, Total	51.1	µg/L	102	8.8	0 - 20	
	LFB 1	Nickel, Total	52.1	µg/L	104		70 - 130	
	LFBD 1	Nickel, Total	51.4	µg/L	103	1.4	0 - 20	
	Method Blank 1	Nickel, Total	ND	µg/L				
	QCS 1	Nickel, Total	49.6	µg/L	99		85 - 115	



MONTEREY BAY ANALYTICAL SERVICES  
CELEBRATING 25 YEARS | 1999-2024

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EH-WQ Lab/E. Baugher  
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831.375.MBAS (6227)  
www.MBASinc.com

**ELAP Certification Number: 2385**

Monday, February 17, 2025

**Sample Condition Upon Receipt**

**Order ID #: 250203\_072**

If laboratory received sample(s) on the same day of collection, is there evidence of chilling?	N/A
If not received by the laboratory on the day of collection, is/are sample(s) within correct temperature range? <10°C (Microbiology) or <=6°C (Chemistry/Non-metals)	N/A
If NO to either above, was client notified that sample was received at improper temperature?	N/A
Did bottle(s) arrive intact?	Yes
Did bottle label(s) agree with COC?	Yes
Adequate sample volume?	Yes



**MONTEREY BAY ANALYTICAL SERVICES**  
**CELEBRATING 25 YEARS | 1999-2024**

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 EH-WQ Lab/E. Baugher  
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**ELAP Certification Number: 2385**

Monday, February 17, 2025

### List of Non-Accredited Test

Order ID #: 250203\_072

California ELAP does not offer certification for the following analyses that may performed by our laboratory.

Test	Method	Description
Aggressivity Calculation	Calculation	Aggressivity Calculation
Langelier Index Corrosivity	Calculation	Langelier Index/Corrosivity - SM 2330B
ORP	SM2580B	Oxidation-Reduction Potential (ORP)
Ryznar Stability Index	Ryznar 1944/Calc	Ryznar Stability Index - Ryznar 1944
Salinity	SM2520B	Salinity - SM 2520B (Calculation)
SAR	Suarez, 1981	SAR - Suarez 1981
Urea	Mulvenna&Savidge	Urea - Mulvenna & Savidge
Odor	SM 2150B	SM 2150 B

**Please note: Tests reported with method of "Calculation" are outside the scope of our ELAP accreditation.**

**Field tests are outside the scope of laboratory accreditation, as there is no certification available for field testing. However, samples collected by MBAS were obtained in accordance with the MBAS Sampling and Collection Standard Operating Procedure.**

#### Abbreviations/Definitions:

mg/L: Milligrams per liter (=ppm)

µg/L: Micrograms per liter (=ppb)

MDL: Method Detection Limit

ND: Not Detected at the PQL (or MDL, if shown)

E: Analysis performed by External Laboratory; see Report attachments

J: Result is < PQL but ≥ MDL; the concentration is an approximate value.

MPN: Most Probable Number

PQL: Practical Quantitation Limit

MCL: Maximum Contamination Level

H: Analyzed outside of method hold time

QC: Quality Control

#### Quality Control Explanation:

**Method Blank:** Prepared to verify that the preparation process is not contributing contamination to the samples.

**LCS/LCSD:** Laboratory Control Standard/Sample (Duplicate) - Used to verify that the analytical method is meeting specifications.

**CCVB:** Continuing Calibration Verification Blank - sample containing no analyte of interest, used to monitor for potential contamination or system drift during analysis.

**QCS:** Quality Control Sample - A second source standard used to to help verify the accuracy of calibration standards and over-all method performance.

**MS:** Matrix Spike - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

**MSD:** Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery. Used to calculated RPD and analysis precision.

**RPD** Relative Percent Difference - Is an indication of precision for the preparation and analysis and is used to assess the consistency and reliability of analytical results.

**LFB/LFBD:** Laboratory Fortified Blank (Duplicate) - is a quality control matrix-matched blank used in analytical chemistry to assess the accuracy of a laboratory's digestion process. Prepared to verify that the preparation process is not affecting analyte recovery.

**LCSL:** Laboratory Control Standard/Sample (Low) - a quality control measure specifically designed to evaluate the performance of an analytical method at the reporting limit (RL).

**GGA:** Glucose-Glutamic Acid (GGA) - solution is used in Biochemical Oxygen Demand (BOD) testing as a quality control check to ensure the accuracy and validity of the test results.

**IPC:** Initial Performance Check - Its purpose is to ensure that the analytical instrument is functioning properly before or during the analysis of samples.

MBAS Order ID: 250203 072



**Chain of Custody / Analysis Request**

4 Justin Court, Suite D, Monterey, CA 93940  
 (831) 375-MBAS (6227) \* Fax: (831) 641-0734  
[info@mbasinc.com](mailto:info@mbasinc.com) [www.MBASinc.com](http://www.MBASinc.com)

Requested Analysis	<b>*LAB USE ONLY*</b>				
	1. <input type="checkbox"/> DW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Other <u>Ambient</u>				
	2. Is there evidence of chilling? <u>Y</u> N N/A < 2hrs				
Metals (Co, Ni, Mn, Li)	3. Adequate sample volume? <u>Y</u> N				
	4. Was the sample filtered? <u>Y</u> N				
	5. Did bottles agree with the COC? <u>Y</u> N				
	IR Used: <u>OG</u> <u>CF: -0.9</u>				
	Preservative (include pH) Initials:				
	HNO3	H2SO4	NaOH	HCl	Na2S2O3

<b>Client / Company Name:</b> County of Santa Cruz Water Quality Lab	<b>Attention:</b> Eric Baugher	<b>Email Address(es) to Send Report/Invoice:</b> WaterQuality@santacruzcountyca.gov	<b>Phone Number:</b> 831-454-4066
<b>Project/System Info:</b> Vistra Battery Fire Investigation	<b>System ID: *Required for EDT*</b>	<b>Billing Address:</b> 701 Ocean St Room 312 Santa Cruz CA 95060	<b>Contract/P.O. #:</b> 25B02767
Mark if YES: For Regulatory Reporting? <input type="checkbox"/> Requires EDT? <input type="checkbox"/>			

MBAS Lab #	Source Code or Client Sample ID <i>*Required for EDT*</i>	Sample Description	Sample Collection		Receiving Temp (°C)	Coliform Analysis				Container		
			Date	Time		GL2 Residual (mg/L)	Routine	Other	Repeat	Special	# Cont.	Type*
01	167737	Forest Lakes MWC Fire Protection Lake Site #1	01/30/25	9:57	2.7						P	250mL
02	167738	Forest Lake MWC Fire Protection Lake Site #2	01/30/25	9:58	2.7						P	250mL
03	167739	Forest Lake MWC Fire Protection Lake Site #3	01/30/25	10:01	4.2						P	250mL
04	167740	Loch Lomond Site 1	01/30/25	8:40	2.2						P	250mL
05	167741	Loch Lomond Site #2	01/30/25	8:52	3.3						P	250mL
06	167742	Loch Lomond Site #3	01/30/25	9:01	3.7						P	250mL
07	167743	Antonelli Pond Site #1	01/30/25	10:39	4.1						P	250mL
08	167744	Antonelli Pond Site #2	01/30/25	10:59	4.0						P	250mL
09	167745	Antonelli Pond near Delaware	01/30/25	10:53	2.9						P	250mL
											G	

	Printed Name	Signature	Date	Time	Comments
Sampled and Relinquished by:	Clare Dominik	<i>[Signature]</i>	1/30/25	2:53P	01-22 pre preserved
Received by:	Byron Mender	<i>[Signature]</i>	2/3/25	12:09	by client, pH < 2 w/
Relinquished by:	Eric Baugher	<i>[Signature]</i>	2/3/25	12:09	HNO3. SPZ 1/3/25
Relinq. Received by:	Byron Mender	<i>[Signature]</i>	2/3/25	16:34	

\*Container Type: P=Plastic, G=Glass, V=Various  
 Date: \_\_\_\_\_

MBAS Order ID: 250203-072



**Chain of Custody / Analysis Request**

4 Justin Court, Suite D, Monterey, CA 93940  
 (831) 375-MBAS (6227) \* Fax: (831) 641-0734  
[info@mbasinc.com](mailto:info@mbasinc.com) [www.MBASinc.com](http://www.MBASinc.com)

Requested Analysis	<p><b>*LAB USE ONLY*</b></p> <p>1. <input type="checkbox"/> DW <input type="checkbox"/> WW <input type="checkbox"/> Soil  <input checked="" type="checkbox"/> Other <u>q.m.b.c.t</u></p> <p>2. Is there evidence of chilling? <u>(Y) N</u>                  N/A &lt; 2hrs</p> <p>3. Adequate sample volume? <u>(Y) N</u></p> <p>4. Was the sample filtered? <u>Y (N)</u></p> <p>5. Did bottles agree with the COC? <u>(Y) N</u></p> <p>IR Used: <u>06 CF-04</u></p>													
	<p>Preservative (include pH) Initials:</p> <table border="1"> <tr> <td>HNO3</td> <td>H2SO4</td> <td>NaOH</td> <td>HCl</td> <td>Na2S2O3</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					HNO3	H2SO4	NaOH	HCl	Na2S2O3				
HNO3	H2SO4	NaOH	HCl	Na2S2O3										

<b>Client / Company Name:</b> County of Santa Cruz Water Quality Lab	<b>Attention:</b> Eric Baugher	<b>Email Address(es) to Send Report/Invoice:</b> WaterQuality@santacruzcountyca.gov	<b>Phone Number:</b> 831-454-4066
<b>Project/System Info:</b> Vistra Battery Fire Investigation	<b>System ID: *Required for EDT*</b>	<b>Billing Address:</b> 701 Ocean St Room 312 Santa Cruz CA 95060	<b>Contract/P.O. #:</b> 25B02767
Mark if YES: For Regulatory Reporting? <input type="checkbox"/> Requires EDT? <input type="checkbox"/>			

MBAS Lab #	Source Code or Client Sample ID <i>*Required for EDT*</i>	Sample Description	Sample Collection		Receiving Temp (°C)	Coliform Analysis					Container			Metals (Co, Ni, Mn, Li)	
			Date	Time		CL2 Residual (mg/L)	Routine	Other	Repeat	Special	# Cont.	Type*	Size		
16	167746	PL-16-Pinto Lake at County Dock	01/30/25	10:46	3.9								P	250mL	/
11	167747	PL-0-Pinto Lake at Boat Rental	01/30/25	11:04	3.1								P	250mL	/
12	167748	PL-11-Pinto Lake at Villas Del Paraiso	01/30/25	11:14	3.4								P	250mL	/
13	167750	K01-Kelly Lake at Ramp	01/30/25	9:12	4.3								P	250mL	/
14	167751	K03-Kelly Lake-Cutter	01/30/25	9:24	4.1								P	250mL	/
15	167752	K04-Kelly Lake Site #4 Pajaro Rod and Gun Club	01/30/25	10:03	3.0								P	250mL	/
16	167753	DREW-1-Drew Lake	01/30/25	8:46	3.7								P	250mL	/
17	167754	DREW-2-Drew Lake Site #2	01/30/25	8:58	4.8								P	250mL	/
18	167755	DREW-3-Drew Lake Site #3 -Brushwood Lane	01/30/25	10:23	4.9								P	250mL	/
													G		

	Printed Name	Signature	Date	Time	Comments
Sampled and Relinquished by:	Clare Dominik	<i>[Signature]</i>	1/30/25	2:53p	
Received by:	Bryan Mander	<i>[Signature]</i>	2/3/25	12:10	
Relinquished by:	Eric Baugher	<i>[Signature]</i>	2/3/25	12:10	
Received by:	Bryan Mander	<i>[Signature]</i>	2/3/25	1:53p	

Payment Received      Check #:      Amount:      Date:      \*Container Type: P=Plastic, G=Glass, V=Various

*Recvd lab*      *Coly*      *Edwards*

*100*      *22*      *2/3/25*      *1036*

*2 of 3*

MBAS Order ID: 250203.072



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[info@mbasinc.com](mailto:info@mbasinc.com) [www.MBASinc.com](http://www.MBASinc.com)

Requested Analysis	<b>*LAB USE ONLY*</b>				
	1. <input type="checkbox"/> DW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Other <u>quaternary</u> 2. Is there evidence of chilling? <u>Y</u> / N N/A < 2hrs 3. Adequate sample volume? <u>Y</u> / N 4. Was the sample filtered? <u>Y</u> / N 5. Did bottles agree with the COC? <u>Y</u> / N IR Used: <u>06 CF: -0.9</u>				
Metals (Co, Ni, Mn, Li)	Preservative (include pH) Initials:				
	HNO3	H2SO4	NaOH	HCl	Na2S2O3

<b>Client / Company Name:</b> County of Santa Cruz Water Quality Lab	<b>Attention:</b> Eric Baugher	<b>Email Address(es) to Send Report/Invoice:</b> WaterQuality@santacruzcountyca.gov	<b>Phone Number:</b> 831-454-4066
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Mark if YES: For Regulatory Reporting? <input type="checkbox"/>		Requires EDT? <input type="checkbox"/>	

MBAS Lab #	Source Code or Client Sample ID <i>*Required for EDT*</i>	Sample Description	Sample Collection		Receiving Temp (°C)	Coliform Analysis					Container							
			Date	Time		CL2 Residual (mg/L)	Routine	Other	Repeat	Special	# Cont.	Type*	Size					
19	167756	Watsonville Sloughs (WSTRU22)	01/30/25	11:34	3.3							P	250mL					
20	167757	Watsonville Sloughs (STRUV21)	01/30/25	11:46	3.0							P	250mL					
21	167758	Watsonville Sloughs (WATSO25)	01/30/25	12:29	2.9							P	250mL					
22	167759	Watsonville Sloughs (WATSO23)	01/30/25	12:06	4.0							P	250mL					
												P	250mL					
												P	250mL					
												P	250mL					
												P	250mL					
												P	250mL					
												G						

	Printed Name	Signature	Date	Time	Comments
Sampled and Relinquished by:	Clare Dominik	<i>[Signature]</i>	1/30/25	2:53p	
Received by:	Bryan Mander	<i>[Signature]</i>	2/3/25	12:11	
Relinquished by:	Eric Baugher	<i>[Signature]</i>	2/3/25	12:11	
Received by:	Bryan Mander	<i>[Signature]</i>	2/3/25	1:03p	

Payment Received      Check #:      Amount:      \*Container Type: P=Plastic, G=Glass, V=Various      Date: