

19 May 2025

Emily Duncan
State Water Resources Control Board - Region 4
320 West Fourth Street, Suite 200
Los Angeles, CA 90013

RE: RWB4 PostFire 2025

Dear Emily Duncan,

The following pages contain the analytical results for the sample(s) received for your project. The second page of this report lists the individual sample descriptions with the corresponding laboratory number(s). We have also provided a copy of the Chain of Custody document (if received with your sample(s)). Please note that any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our Client Service Department.

Sincerely,

Juliett Melissa Machuca For Alexandria L. Guerra

Special Programs Coordinator

marhura



State Water Resources Control Board - Region 4

320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Lab ID	Matrix	Station Code	Location Code	Sampled	Received
Zuma Beach	C5E0054-01	Sludge	404ZUMAB	Bank	04/29/25 10:20	05/01/25 11:40
Leo Carrillo State Beach	C5E0054-02	Sludge	404LEOCAR	Bank	04/29/25 09:40	05/01/25 11:40
Zuma Beach	C5E0054-03	Sludge	404ZUMAB	Bank	04/29/25 10:20	05/01/25 11:40
Malibu Surfrider	C5E0054-04	Sludge	404MSBBE	Bank	04/29/25 11:00	05/01/25 11:40
Topanga Lagoon	C5E0054-05	Sludge	404TOPLA	Bank	04/29/25 11:50	05/01/25 11:40
Topanga Beach	C5E0054-06	Sludge	404TOPBE	Bank	04/29/25 12:00	05/01/25 11:40
Will Rogers State Beach	C5E0054-07	Sludge	404WILLR	Bank	04/29/25 12:30	05/01/25 11:40
SMC Rustic Creek	C5E0054-08	Sludge	404SMCRC	Bank	04/29/25 13:00	05/01/25 11:40
SMB Montana Ave	C5E0054-09	Sludge	404SMBMA	Bank	04/29/25 13:30	05/01/25 11:40
SMB North of Pier	C5E0054-10	Sludge	404SMBNP	Bank	04/29/25 14:00	05/01/25 11:40
SMB Pico Kenter	C5E0054-11	Sludge	404SMBPK	Bank	04/29/25 14:20	05/01/25 11:40
Venice B Rose Ave	C5E0054-12	Sludge	404VBRASD	Bank	04/29/25 15:30	05/01/25 11:40
Venice Beach	C5E0054-13	Sludge	404VENICE	Bank	04/29/25 15:00	05/01/25 11:40
Mother's Beach	C5E0054-14	Sludge	404MOTHB	Bank	04/30/25 09:30	05/01/25 11:40
Dockweiler Beach	C5E0054-15	Sludge	404DOCKB	Bank	04/30/25 08:30	05/01/25 11:40
Redondo Break	C5E0054-16	Sludge	404REDOB	Bank	04/30/25 07:50	05/01/25 11:40
RAT Beach	C5E0054-17	Sludge	404RATB	Bank	04/30/25 07:00	05/01/25 11:40

Included in this Data Package please find an amended report for the work order referenced below.

Work Order: C5E0054

Reason for Amendment: Metals added per client request. This report supersedes the report issued on 05/14/2025.

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

Zuma Beach C5E0054-01 (Sludge, Sampled: 04/29/25 10:20)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	k Labora	atories, Inc	c Rivers	side				
Solids										
Total Solids	96	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	A SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2000	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	NMin
Arsenic	2.8	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	18	0.49	1.0	"	"	"	n n	u	"	
Beryllium	ND	0.52	1.0	"	"	"	n n	u	"	
Cadmium	ND	0.50	1.0	"	"	"	"	II .	"	
Cobalt	4.2	0.50	1.0	"	"	u u	u u	"	"	
Total Chromium	20	0.58	1.0	"	"	"	"	·	"	
Copper	3.1	0.51	1.0	"	"	"	"	·	"	
Mercury	ND	0.017	0.052	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	140	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	NMin
Molybdenum	1.6	0.61	5.0	"	"	"	"	·	"	
Nickel	9.1	0.58	1.0	"	"	"	"	·	"	
Lead	5.6	0.29	2.0	"	"	"	"	· ·	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	II .	"	m .	
Thallium	ND	0.54	1.0	"	"	"	n n	"	"	
Zinc	29	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200 Los Angeles CA, 90013 Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring
Project Manager: Emily Duncan

Reported:
05/19/25 15:56

Leo Carrillo State Beach C5E0054-02 (Sludge, Sampled: 04/29/25 09:40)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	itories, Inc	Rivers	side				
Solids										
Total Solids	93	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	\ SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2600	3.6	10	"	"	5E06157	n .	05/07/25	EPA 6010B	
Arsenic	4.2	0.53	1.0	"	"	5E02107	II .	05/08/25	EPA 6020	
Barium	16	0.49	1.0	"	"	"	n .	"	"	
Beryllium	ND	0.52	1.0	"	"	"	u	"	n .	
Cadmium	ND	0.50	1.0	"	"	"	II .	m .	n .	
Cobalt	3.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	13	0.58	1.0	"	"	"	II .	m .	"	
Copper	4.6	0.51	1.0	"	"	"	II .	m .	"	
Mercury	0.021	0.018	0.054	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	120	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	1.9	0.61	5.0	"	"	"	u u	"	"	J
Nickel	7.6	0.58	1.0	"	"	"	u u	"	"	
Lead	4.6	0.29	2.0	"	"	"	u u	"	"	
Antimony	ND	0.52	1.0	"	"	"	u u	"	n .	
Selenium	ND	0.85	5.0	"	"	"	II .	n .	n .	
Thallium	ND	0.54	1.0	"	"	"	"	"	n .	
Zinc	23	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Zuma Beach

C5E0054-03 (Sludge, Sampled: 04/29/25 10:20)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	t Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	96	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	\ SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2000	3.6	10	"	"	5E06157	II .	05/07/25	EPA 6010B	
Arsenic	2.8	0.53	1.0	"	"	5E02107	n .	05/08/25	EPA 6020	
Barium	36	0.49	1.0	"	"	"	n .	"	"	
Beryllium	ND	0.52	1.0	"	"	"	n .	"	m .	
Cadmium	ND	0.50	1.0	"	"	"	II .	"	m .	
Cobalt	3.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	26	0.58	1.0	"	"	"	II .	"	"	
Copper	3.3	0.51	1.0	"	"	"	II .	"	"	
Mercury	ND	0.017	0.052	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	150	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	0.98	0.61	5.0	"	"	"	II .	"	"	
Nickel	8.7	0.58	1.0	"	"	"	II .	"	"	
Lead	6.6	0.29	2.0	"	"	"	II .	"	"	
Antimony	ND	0.52	1.0	"	"	"	II .	"	m .	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"		"	
Zinc	23	2.3	10	"		"	"		"	

Babcock Laboratories, Inc. - Riverside



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Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Malibu Surfrider

C5E0054-04 (Sludge, Sampled: 04/29/25 11:00)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	atories, Inc	Rivers	side				
Solids										
Total Solids	71	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2200	3.6	10	"	"	5E06157	n n	05/07/25	EPA 6010B	
Arsenic	1.0	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	20	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	m m	"	"	
Cobalt	1.4	0.50	1.0	"	"	"	m m	"	"	
Total Chromium	5.0	0.58	1.0	"	"	"	m m	"	"	
Copper	2.6	0.51	1.0	"	"	"	m m	"	"	
Mercury	ND	0.023	0.070	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	68	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Ncon
Molybdenum	ND	0.61	5.0	"	"	"	m m	"	"	
Nickel	4.6	0.58	1.0	"	"	"	u u	"	"	
Lead	1.7	0.29	2.0	"	"	"	u u	"	"	
Antimony	ND	0.52	1.0	"	"	"	u u	"	"	
Selenium	ND	0.85	5.0	ıı .	"	"	"	"	"	
Thallium	ND	0.54	1.0	ıı .	"	"	"	"	"	
Zinc	12	2.3	10	"	"	"	"		"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

Topanga Lagoon

C5E0054-05 (Sludge, Sampled: 04/29/25 11:50)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	75	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.5	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	13	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	5.8	0.58	1.0	"	"	"	"	"	"	
Copper	4.1	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.022	0.067	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	68	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.0	0.58	1.0	"	"	"	"	"	"	
Lead	2.6	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"		
Selenium	ND	0.85	5.0	"	"	"	n n	"		
Thallium	ND	0.54	1.0	"	"	"	n n	"		
Zinc	15	2.3	10	"	"	"	n n	"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Topanga Beach C5E0054-06 (Sludge, Sampled: 04/29/25 12:00)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	atories, Inc	Rivers	side				
Solids										
Total Solids	85	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	A SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.3	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	11	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	u u	"	· ·	"	
Cobalt	1.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	6.9	0.58	1.0	"	"	u u	"	· ·	"	
Copper	17	0.51	1.0	"	"	u u	"	· ·	"	
Mercury	0.064	0.020	0.059	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	69	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.4	0.58	1.0	"	"	u u	"	· ·	"	
Lead	2.5	0.29	2.0	"	"	u u	"	· ·	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"		
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	14	2.3	10		"	"		"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013 Project Manage

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Will Rogers State Beach C5E0054-07 (Sludge, Sampled: 04/29/25 12:30)

Project: RWB4_PostFire_2025

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		Babcock	Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	88	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2000	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.1	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	25	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.9	0.50	1.0	"	"	"	"	"	"	
Total Chromium	7.9	0.58	1.0	"	"	"	"	u u	"	
Copper	2.4	0.51	1.0	"	"	"	"	u u	"	
Mercury	ND	0.019	0.057	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	86	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	u u	"	
Nickel	5.7	0.58	1.0	"	"	"	"	"	"	
Lead	3.0	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	u u	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	14	2.3	10	"	"	"		"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

SMC Rustic Creek

C5E0054-08 (Sludge, Sampled: 04/29/25 13:00)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	61	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	A SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	12000	3.6	10	"	"	5E06157	n .	05/07/25	EPA 6010B	
Arsenic	12	0.53	1.0	"	"	5E02107	n n	05/08/25	EPA 6020	
Barium	140	0.49	1.0	"	"	"	"	"	"	
Beryllium	0.76	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	13	0.50	1.0	"	"	u u	n n	"	"	
Total Chromium	30	0.58	1.0	"	"	u u	n n	"	"	
Copper	34	0.51	1.0	"	"	u u	n n	"	"	
Mercury	0.076	0.028	0.083	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	590	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	1.1	0.61	5.0	"	"	"	"	"	"	
Nickel	31	0.58	1.0	"	"	"	"	"	"	
Lead	25	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	u u	n n	"	"	
Thallium	ND	0.54	1.0	"	"	"	u u	"	m .	
Zinc	110	2.3	10	"	"	"			"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

SMB Montana Ave

C5E0054-09 (Sludge, Sampled: 04/29/25 13:30)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	76	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	3200	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	2.2	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	11	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	7.5	0.58	1.0	"	"	"	"	"	"	
Copper	4.9	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.022	0.066	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	81	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	7.6	0.58	1.0	"	"	"	n n	"	"	
Lead	2.7	0.29	2.0	"	"	"	n n	"	"	
Antimony	ND	0.52	1.0	"	"	"	u u	"	"	
Selenium	ND	0.85	5.0	"	"	"	n n	"	"	
Thallium	ND	0.54	1.0	"	"	"	u u	"	"	
Zinc	21	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200 Los Angeles CA, 90013 Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

SMB North of Pier

C5E0054-10 (Sludge, Sampled: 04/29/25 14:00)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		Babcock	(Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	81	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2600	3.6	10	"	"	5E06157	n n	05/07/25	EPA 6010B	
Arsenic	3.6	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	96	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	n n	"	"	
Cobalt	3.3	0.50	1.0	"	"	u u	u u	"	"	
Total Chromium	15	0.58	1.0	"	"	"	n n	"	"	
Copper	2.9	0.51	1.0	"	"	"	n n	"	"	
Mercury	ND	0.021	0.062	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	120	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	n n	"	"	
Nickel	12	0.58	1.0	"	"	"	"	"	"	
Lead	4.4	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	19	2.3	10	"	"	"	"		"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

SMB Pico Kenter

C5E0054-11 (Sludge, Sampled: 04/29/25 14:20)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	78	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1200	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.5	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	10	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"		
Cadmium	0.56	0.50	1.0	"	"	"	"	"	"	J
Cobalt	1.0	0.50	1.0	"	"	"	"	"	"	
Total Chromium	3.6	0.58	1.0	"	"	"	"	"	"	
Copper	2.6	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.021	0.064	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	55	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	0.62	0.61	5.0	"	"	"	"	"	"	J
Nickel	3.4	0.58	1.0	"	"	"	"	"	"	
Lead	1.6	0.29	2.0	"	"	"	"	"	"	J
Antimony	ND	0.52	1.0	"	"	"	"	"		
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	9.8	2.3	10	"	"	"			"	J

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Venice B Rose Ave C5E0054-12 (Sludge, Sampled: 04/29/25 15:30)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	79	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1800	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.9	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	5.9	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"		
Cadmium	ND	0.50	1.0	"	"	"	"	"		
Cobalt	1.6	0.50	1.0	"	"	"	"	"	"	
Total Chromium	6.1	0.58	1.0	"	"	"	"	"	"	
Copper	2.2	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.021	0.063	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	42	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"		
Nickel	6.6	0.58	1.0	"	"	"	"	"	"	
Lead	1.7	0.29	2.0	"	"	"	"	"	"	J
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	15	2.3	10	"	"	"			"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Venice Beach

C5E0054-13 (Sludge, Sampled: 04/29/25 15:00)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	Labora	itories, Inc	Rivers	side				
Solids										
Total Solids	86	0.10	0.10	%	1	5E06196	05/06/25	05/06/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1400	3.6	10	"	"	5E06157	n .	05/07/25	EPA 6010B	
Arsenic	1.8	0.53	1.0	"	"	5E02107	n n	05/08/25	EPA 6020	
Barium	6.0	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.0	0.50	1.0	"	"	"	n n	"	"	
Total Chromium	4.7	0.58	1.0	"	"	"	"	"	"	
Copper	1.5	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.019	0.058	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	46	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	3.6	0.58	1.0	"	"	"	u u	"	"	
Lead	1.8	0.29	2.0	"	"	"	n n	"	"	J
Antimony	ND	0.52	1.0	"	"	"	u u	"	"	
Selenium	ND	0.85	5.0	"	"	"	n n	"	"	
Thallium	ND	0.54	1.0	"	"	"	u u	"	"	
Zinc	9.7	2.3	10	"	"	"	"	"	"	J

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Mother's Beach

C5E0054-14 (Sludge, Sampled: 04/30/25 09:30)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	84	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA	SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	2100	3.6	10	"	"	5E06157	n .	05/07/25	EPA 6010B	
Arsenic	1.5	0.53	1.0	"	"	5E02107	n n	05/08/25	EPA 6020	
Barium	6.0	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	n n	"	"	
Cobalt	2.1	0.50	1.0	"	"	"	n n	"	"	
Total Chromium	11	0.58	1.0	"	"	"	n n	"	"	
Copper	12	0.51	1.0	"	"	"	u u	"	"	
Mercury	ND	0.020	0.059	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	63	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Ncon
Molybdenum	ND	0.61	5.0	"	"	"	n n	"	"	
Nickel	5.6	0.58	1.0	"	"	"	"	"	"	
Lead	6.0	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	u u	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	42	2.3	10	"	"	"			"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Dockweiler Beach

C5E0054-15 (Sludge, Sampled: 04/30/25 08:30)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	tories, Inc	Rivers	side				
Solids										
Total Solids	97	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA	A SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1900	3.6	10	"	u u	5E06157	u u	05/07/25	EPA 6010B	
Arsenic	2.1	0.53	1.0	"	u u	5E02107	u u	05/08/25	EPA 6020	
Barium	5.3	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	1.2	0.50	1.0	"	"	"	"	"	"	
Total Chromium	5.5	0.58	1.0	"	"	"	"	"	"	
Copper	1.9	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.017	0.052	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	40	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Nconf
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	4.9	0.58	1.0	"	"	"	n n	"	"	
Lead	3.4	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	n n	"	"	
Thallium	ND	0.54	1.0	"	"	"	u u	"	"	
Zinc	11	2.3	10	"	"	"		"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Redondo Break

C5E0054-16 (Sludge, Sampled: 04/30/25 07:50)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	(Labora	itories, Inc	Rivers	side				
Solids										
Total Solids	86	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA	A SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	1300	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	1.8	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	4.4	0.49	1.0	"	"	"	"	"	"	
Beryllium	ND	0.52	1.0	"	"	"	"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	"	
Cobalt	0.62	0.50	1.0	"	"	"	"	"	"	
Total Chromium	4.3	0.58	1.0	"	"	"	"	"	"	
Copper	0.96	0.51	1.0	"	"	"	"	"	"	
Mercury	ND	0.019	0.058	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	
Manganese	23	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	Ncon
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	2.5	0.58	1.0	"	"	"	m m	"	"	
Lead	2.9	0.29	2.0	"	"	"	"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	u u	"	"	
Thallium	ND	0.54	1.0	"	"	"	"	"	"	
Zinc	9.5	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

RAT Beach

C5E0054-17 (Sludge, Sampled: 04/30/25 07:00)

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Babcock	t Labora	itories, Inc	Rivers	side				
Solids										
Total Solids	90	0.10	0.10	%	1	5E07152	05/07/25	05/07/25	SM 2540G	
Metals and Metalloids; EPA	A SW846 Series									
Silver	ND	0.56	1.0	mg/kg dry	1	5E02107	05/06/25	05/08/25	EPA 6020	
Aluminum	3900	3.6	10	"	"	5E06157	"	05/07/25	EPA 6010B	
Arsenic	4.2	0.53	1.0	"	"	5E02107	"	05/08/25	EPA 6020	
Barium	890	0.49	1.0	"	"	"	"	m m	"	
Beryllium	ND	0.52	1.0	"	"		"	"	"	
Cadmium	ND	0.50	1.0	"	"	"	"	"	n .	
Cobalt	2.7	0.50	1.0	"	"	"	"	"	"	
Total Chromium	16	0.58	1.0	"	"	"	"	"	"	
Copper	2.3	0.51	1.0	"	"	"	"	m m	"	
Mercury	0.044	0.018	0.055	"	"	5E15110	05/19/25	05/19/25	EPA 7471A	J
Manganese	180	2.1	10	"	"	5E02107	05/06/25	05/08/25	EPA 6020	
Molybdenum	ND	0.61	5.0	"	"	"	"	"	"	
Nickel	5.0	0.58	1.0	"	"	"	"	"	"	
Lead	5.7	0.29	2.0	"	"		"	"	"	
Antimony	ND	0.52	1.0	"	"	"	"	"	"	
Selenium	ND	0.85	5.0	"	"	"	"	"	n .	
Thallium	ND	0.54	1.0	"	"	"	"	n n	II .	
Zinc	19	2.3	10	"	"	"	"	"	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200 Los Angeles CA, 90013 Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

Solids - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5E06196, Prep Method: N/	A, Analyst: RJE	3									
Blank (5E06196-BLK1)					Prepared	& Analyze	d: 05/06/2	5			
Total Solids	ND	0.10	0.10	%							
Duplicate (5E06196-DUP1)		Source:	C5E005	4-01	Prepared	& Analyze	d: 05/06/2	5			
Total Solids	96.2	0.10	0.10	%		96.3			0.05	25	
Duplicate (5E06196-DUP2)		Source:	C5E005	4-02	Prepared	& Analyze	d: 05/06/2	5			
Total Solids	93.2	0.10	0.10	%		93.0			0.1	25	
Batch 5E07152, Prep Method: N/	A, Analyst: PBS	3									
Blank (5E07152-BLK1)					Prepared & Analyzed: 05/07/25						
Total Solids	ND	0.10	0.10	%							
Duplicate (5E07152-DUP1)		Source:	C5E005	4-15	Prepared	& Analyze	d: 05/07/2	5			
Total Solids	96.9	0.10	0.10	%		97.0			0.1	25	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4

320 West Fourth Street, Suite 200

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported: Los Angeles CA, 90013 Project Manager: Emily Duncan 05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control

Project: RWB4_PostFire_2025

Babcock Laboratories, Inc. - Riverside

					Spike	Source		%REC		RPD	
Analyte	Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5E02107, Prep Method: EPA 3050B, Analyst: TJK

Artimony	Blank (5E02107-BLK1)				F	Prepared: 05/06/2	25 Analyzed	: 05/08/25
Barium ND 0.59 1.0	Antimony	ND	0.52	1.0	mg/kg wet			
Barulium ND 0.52 1.0	Arsenic	ND	0.53	1.0	"			
Cadmium ND 0.50 1.0 "	Barium	ND	0.49	1.0				
Total Chromium	Beryllium	ND	0.52	1.0	u u			
Cobalt	Cadmium	ND	0.50	1.0	u u			
Cooper	Total Chromium	ND	0.58	1.0	"			
Capier No	Cobalt	ND	0.50	1.0	II .			
Manganese ND 2.1 10 " Molybdenum ND 0.61 5.0 " Nickel ND 0.58 1.0 " Selenilum ND 0.85 5.0 " Thallium ND 0.56 1.0 mg/kg dry Thallium ND 0.5 1.0 mg/kg wet Zinc ND 0.5 1.0 " CCS (5E02107-BS1)	Copper	ND	0.51	1.0	u u			
No	Lead	ND	0.29	2.0	u u			
Nickel ND 0.58 1.0 " Selenium ND 0.58 5.0 " Silver ND 0.56 1.0 mg/kg dry Thallium ND 0.54 1.0 mg/kg wet Zinc ND 0.52 1.0 mg/kg wet Zinc ND 0.52 1.0 mg/kg wet LCS (5E02107-BS1)	Manganese	ND	2.1	10				
Selenium	Molybdenum	ND	0.61	5.0				
Silver ND 0.56 1.0 mg/kg dry Thallium ND 0.54 1.0 mg/kg wet Zinc ND 2.3 10 "" Prepared: 05/06/25 Analyzed: 05/08/25 LCS (5E02107-BS1) Prepared: 05/06/25 Analyzed: 05/08/25 Antimony 206 0.52 1.0 mg/kg wet 200 103 79-132 Arsenic 207 0.53 1.0 " 200 103 80-127 Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 99 80-120 Cadmium 194 0.58 1.0 " 200 99 80-122 Cobalt 197 0.50 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 97 80-117 Lead 207 202 99	Nickel	ND	0.58	1.0	"			
Thallium ND 0.54 1.0 mg/kg wet Zinc ND 2.3 10 "" Frepared: 05/06/25 Analyzed: 05/08/25 LCS (5E02107-BS1) Prepared: 05/06/25 Analyzed: 05/08/25 Antimony 206 0.52 1.0 mg/kg wet 200 103 79-132 Arsenic 207 0.53 1.0 " 200 103 80-127 Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 99 80-122 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 96 84-122 Molybden	Selenium	ND	0.85	5.0	II .			
Zinc ND 2.3 10 " LCS (5E02107-BS1) Prepared: 05/06/25 Analyzed: 05/08/25 Antimony 206 0.52 1.0 mg/kg wet 200 103 79-132 Arsenic 207 0.53 1.0 " 200 103 80-127 Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 106 79-124 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 96 84-122 Molybdenum 199	Silver	ND	0.56	1.0	mg/kg dry			
LCS (5E02107-BS1) Prepared: 05/06/25 Analyzed: 05/08/25 Antimony 206 0.52 1.0 mg/kg wet 200 103 79-132 Arsenic 207 0.53 1.0 " 200 103 80-127 Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 99 80-120 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 95 81-117 </td <td>Thallium</td> <td>ND</td> <td>0.54</td> <td>1.0</td> <td>mg/kg wet</td> <td></td> <td></td> <td></td>	Thallium	ND	0.54	1.0	mg/kg wet			
Antimony 206 0.52 1.0 mg/kg wet 200 103 79-132 Arsenic 207 0.53 1.0 " 200 103 80-127 Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 99 80-122 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 103 82-124 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 95 81-117 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Zinc	ND	2.3	10	"			
Arsenic 207 0.53 1.0 " 200 103 80-127 Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 99 80-122 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 98 80-124 Manganese 191 2.1 10 " 200 97 80-117 Lead 207 0.29 2.0 " 200 97 80-117 Lead Nolybdenum 199 0.61 5.0 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118								
Barium 199 0.49 1.0 " 200 99 80-120 Beryllium 212 0.52 1.0 " 200 106 79-124 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-122 Copper 193 0.51 1.0 " 200 98 80-117 Lead 207 0.29 2.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 96 84-122 Manganese 191 2.1 10 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 94 20-164 Totalium 9.38 0.56 1.0	LCS (5E02107-BS1)				F	Prepared: 05/06/2	25 Analyzed	: 05/08/25
Beryllium 212 0.52 1.0 " 200 106 79-124 Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 96 84-122 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 95 81-117 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118		206	0.52	1.0		•		
Cadmium 198 0.50 1.0 " 200 99 80-122 Total Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 96 84-122 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 95 81-117 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 m	Antimony					200	103	79-132
Codal Chromium 194 0.58 1.0 " 200 97 81-118 Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 103 82-124 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic	207	0.53	1.0	mg/kg wet	200 200	103 103	79-132 80-127
Cobalt 197 0.50 1.0 " 200 98 80-124 Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 103 82-124 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium	207 199	0.53 0.49	1.0 1.0	mg/kg wet "	200 200 200	103 103 99	79-132 80-127 80-120
Copper 193 0.51 1.0 " 200 97 80-117 Lead 207 0.29 2.0 " 200 103 82-124 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium	207 199 212	0.53 0.49 0.52	1.0 1.0 1.0	mg/kg wet " "	200 200 200 200 200	103 103 99 106	79-132 80-127 80-120 79-124
Lead 207 0.29 2.0 " 200 103 82-124 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium	207 199 212 198	0.53 0.49 0.52 0.50	1.0 1.0 1.0 1.0	mg/kg wet " " "	200 200 200 200 200 200	103 103 99 106 99	79-132 80-127 80-120 79-124 80-122
Lead 207 0.29 2.0 200 103 02-124 Manganese 191 2.1 10 " 200 96 84-122 Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium Total Chromium	207 199 212 198 194	0.53 0.49 0.52 0.50 0.58	1.0 1.0 1.0 1.0 1.0	mg/kg wet	200 200 200 200 200 200 200	103 103 99 106 99 97	79-132 80-127 80-120 79-124 80-122 81-118
Molybdenum 199 0.61 5.0 " 200 99 82-130 Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt	207 199 212 198 194 197	0.53 0.49 0.52 0.50 0.58 0.50	1.0 1.0 1.0 1.0 1.0	mg/kg wet " " " "	200 200 200 200 200 200 200 200	103 103 99 106 99 97 98	79-132 80-127 80-120 79-124 80-122 81-118
Nickel 190 0.58 1.0 " 200 95 81-117 Selenium 220 0.85 5.0 " 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper	207 199 212 198 194 197	0.53 0.49 0.52 0.50 0.58 0.50 0.51	1.0 1.0 1.0 1.0 1.0 1.0	mg/kg wet	200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117
Nickel 180 0.36 1.0 200 95 61-117 Selenium 220 0.85 5.0 200 110 76-144 Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper	207 199 212 198 194 197 193 207	0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29	1.0 1.0 1.0 1.0 1.0 1.0 1.0	mg/kg wet	200 200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97 103	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117
Silver 9.38 0.56 1.0 mg/kg dry 10.0 94 20-164 Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Manganese	207 199 212 198 194 197 193 207	0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 2.1	1.0 1.0 1.0 1.0 1.0 1.0 2.0	mg/kg wet	200 200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97 103	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117 82-124 84-122
Thallium 210 0.54 1.0 mg/kg wet 200 105 75-118	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Manganese Molybdenum	207 199 212 198 194 197 193 207 191	0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 2.1	1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 10 5.0	mg/kg wet	200 200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97 103 96	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117 82-124 84-122 82-130
	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Manganese Molybdenum Nickel	207 199 212 198 194 197 193 207 191 199	0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 2.1 0.61 0.58	1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 10 5.0	mg/kg wet	200 200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97 103 96 99	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117 82-124 84-122 82-130 81-117
Zinc 209 2.3 10 " 200 105 75-124	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Selenium	207 199 212 198 194 197 193 207 191 199 190 220	0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 2.1 0.61 0.58 0.85	1.0 1.0 1.0 1.0 1.0 1.0 2.0 10 5.0 5.0	mg/kg wet	200 200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97 103 96 99 95 110	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117 82-124 84-122 82-130 81-117 76-144
	Antimony Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Manganese Molybdenum Nickel Selenium Silver	207 199 212 198 194 197 193 207 191 199 190 220 9.38	0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 2.1 0.61 0.58 0.85 0.56	1.0 1.0 1.0 1.0 1.0 1.0 2.0 10 5.0 1.0	mg/kg wet " " " " " " " " " " " " " " " " " " "	200 200 200 200 200 200 200 200 200 200	103 103 99 106 99 97 98 97 103 96 99 95 110	79-132 80-127 80-120 79-124 80-122 81-118 80-124 80-117 82-124 84-122 82-130 81-117 76-144 20-164

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200 Los Angeles CA, 90013 Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control

Babcock Laboratories, Inc. - Riverside

					Spike	Source		%REC		RPD		l
Analyte	Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	l

Batch 5E02107, Prep Method: EPA 3050B, Analyst: TJK

Duplicate (5E02107-DUP1)		Source:	C5E00	54-01	Prepared: 05/06/25 Analyzed: 05/08	3/25		
Antimony	ND	0.52	1.0	mg/kg dry	ND		20	
Arsenic	2.91	0.53	1.0	"	2.79	4	20	
Barium	32.8	0.49	1.0	"	18.4	56	20	QFnt
Beryllium	ND	0.52	1.0	"	ND		20	
Cadmium	ND	0.50	1.0	"	ND		20	
Total Chromium	15.1	0.58	1.0	"	20.2	29	20	QRPDh
Cobalt	3.39	0.50	1.0	"	4.19	21	20	QFnt
Copper	3.46	0.51	1.0	"	3.10	11	20	
Lead	4.53	0.29	2.0	"	5.61	21	20	QRPDI
Manganese	113	2.1	10	"	138	20	20	
Molybdenum	1.29	0.61	5.0	"	1.60	22	20	QFnt, QRPDI,
								J
Nickel	9.09	0.58	1.0	"	9.13	0.5	20	
Selenium	ND	0.85	5.0	"	ND		20	
Silver	ND	0.56	1.0	"	ND		20	
Thallium	ND	0.54	1.0	"	ND		20	
Zinc	20.5	2.3	10	"	28.9	34	20	QRPDI
Duplicate (5E02107-DUP2)		Source:	C5E00	54-01	Prepared: 05/06/25 Analyzed: 05/08	3/25		
Antimony	ND	2.6	5.0	mg/kg dry	ND		20	
Arsenic	ND	2.7	5.0	"	2.79		20	
Barium	33.3	2.5	5.0	"	18.4	58	20	QFnt
Beryllium	ND	2.6	5.0	"	ND		20	
Cadmium	ND	2.5	5.0	"	ND		20	
Total Chromium	15.4	2.9	5.0	"	20.2	27	20	QRPDh
Cobalt	3.62	2.5	5.0	"	4.19	14	20	J
Copper	3.64	2.6	5.0	"	3.10	16	20	J
Lead	4.69	1.4	10	"	5.61	18	20	J
Manganese	115	11	50	"	138	19	20	
Molybdenum	ND	3.1	25	"	ND		20	
Nickel	9.64	2.9	5.0	"	9.13	5	20	
Selenium	ND	4.3	25	"	ND		20	
Silver	ND	2.8	5.0	"	ND		20	
Thallium	ND	2.7	5.0	"	ND		20	
Zinc	23.3	11	50		28.9	22	20	QRPDI, J

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200 Project: RWB4_PostFire_2025

320 West Fourth Street, Suite 200 Los Angeles CA, 90013

Analyte

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

Project Manager: Emily Duncan

05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control Babcock Laboratories, Inc. - Riverside

												ı
					Spike	Source		%REC		RPD		
e	Result	MDI	RI	Units	l evel	Result	%RFC	Limits	RPD	I imit	Notes	ı

Batch 5E02107, Prep Method: EPA 3050B, Analyst: TJP	Batch 5E02107.	, Prep Method: EPA	A 3050B, Analyst: TJK
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Matrix Spike (5E02107-MS1)		Source:	C5E00	54-01	Prepared:	05/06/25	Analyzed	d: 05/08/25			
Antimony	170	0.52	1.0	mg/kg dry	207	ND	82	10-156			
Arsenic	222	0.53	1.0	"	207	2.79	106	77-131			
Barium	263	0.49	1.0	"	207	18.4	118	61-132			
Beryllium	214	0.52	1.0	"	207	ND	103	68-128			
Cadmium	216	0.50	1.0	"	207	ND	104	72-121			
Total Chromium	242	0.58	1.0	"	207	20.2	107	60-129			
Cobalt	215	0.50	1.0	"	207	4.19	102	64-128			
Copper	211	0.51	1.0	"	207	3.10	101	36-141			
Lead	225	0.29	2.0	"	207	5.61	106	60-126			
Manganese	424	2.1	10	"	207	138	138	63-135			QMint
Molybdenum	213	0.61	5.0	"	207	1.60	102	60-140			
Nickel	219	0.58	1.0	"	207	9.13	102	60-135			
Selenium	226	0.85	5.0	"	207	ND	109	73-141			
Silver	10.1	0.56	1.0	"	9.95	ND	102	10-155			
Thallium	227	0.54	1.0	"	207	ND	110	57-122			
Zinc	248	2.3	10	n	207	28.9	106	26-166			
Matrix Spike Dup (5E02107-MSD1)		Source:	C5E00	54-01	Prepared	: 05/06/25	Analyzed	d: 05/08/25			
Antimony	169	0.52	1.0	mg/kg dry	207	ND	81	10-156	8.0	20	
Arsenic	212	0.53	1.0	"	207	2.79	101	77-131	5	20	
Barium	238	0.49	1.0	"	207	18.4	106	61-132	10	20	
Beryllium	207	0.52	1.0	"	207	ND	100	68-128	3	20	
Cadmium	207	0.50	1.0	"	207	ND	100	72-121	4	20	
Total Chromium	226	0.58	1.0	"	207	20.2	100	60-129	7	20	
Cobalt	205	0.50	1.0	"	207	4.19	97	64-128	5	20	
Copper	205	0.51	1.0	"	207	3.10	97	36-141	3	20	
Lead	217	0.29	2.0	"	207	5.61	102	60-126	4	20	
Manganese	421	2.1	10	"	207	138	137	63-135	0.7	20	QMint
Molybdenum	207	0.61	5.0	"	207	1.60	99	60-140	3	20	
Nickel	209	0.58	1.0	"	207	9.13	96	60-135	5	20	
Selenium	221	0.85	5.0	"	207	ND	107	73-141	2	20	
Silver	9.75	0.56	1.0	"	9.97	ND	98	10-155	4	20	
Thallium	216	0.54	1.0	"	207	ND	105	57-122	5	20	
Zinc	239	2.3	10		207	28.9	101	26-166	4	20	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4

320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Aluminum

Project: RWB4_PostFire_2025

Spike

2190

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported: Project Manager: Emily Duncan 05/19/25 15:56

207

Source

1970

%REC

61-121

QMint

RPD

Metals and Metalloids; EPA SW846 Series - Quality Control

Babcock Laboratories, Inc. - Riverside

Analyte	Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5E06157, Prep Method: EPA	3050B, Analy	st: ALD									
Blank (5E06157-BLK1)					Prepared	: 05/06/25	Analyzed	: 05/07/25			
Aluminum	ND	3.6	10	mg/kg dry							
LCS (5E06157-BS1)					Prepared	05/06/25	Analyzed	: 05/07/25			
Aluminum	2470	3.6	10	mg/kg dry	2200		112	72-120			
Matrix Spike (5E06157-MS1)		Source: 0	C5E00	54-01	Prepared	: 05/06/25	Analyzed	: 05/07/25			
Aluminum	6090	3.6	10	mg/kg dry	2190	1970	188	61-121			QMint
Matrix Spike Dup (5E06157-MSD1)		Source: 0	C5E00	54-01	Prepared	: 05/06/25	Analyzed	: 05/07/25			

10 mg/kg dry

3.6

6500

Batch 5E14096, Prep Method: E	PA 3050B, Analy	st: TJK			
Blank (5E14096-BLK1)					Prepared: 05/06/25 Analyzed: 05/08/25
Antimony	ND	0.52	1.0	mg/kg	
Arsenic	ND	0.53	1.0	"	
Barium	ND	0.49	1.0	"	
Beryllium	ND	0.52	1.0	"	
Cadmium	ND	0.50	1.0		
Total Chromium	ND	0.58	1.0		
Cobalt	ND	0.50	1.0		
Copper	ND	0.51	1.0		
Lead	ND	0.29	2.0		
Molybdenum	ND	0.61	5.0		
Nickel	ND	0.58	1.0		
Selenium	ND	0.85	5.0	"	
Silver	ND	0.56	1.0	"	
Thallium	ND	0.54	1.0	"	
Zinc	ND	2.3	10	"	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4

320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control

Babcock Laboratories, Inc. - Riverside

					Spike	Source		%REC		RPD		l
Analyte	Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	l

Batch 5E14096, Prep Method: EPA 3050B, Analyst: TJK

LCS (5E14096-BS1)					Prepared:	05/06/25 Analyzed	d: 05/08/25			
Antimony	206	0.52	1.0	mg/kg	200	103	79-132			
Arsenic	207	0.53	1.0	"	200	103	80-127			
Barium	199	0.49	1.0	"	200	99	80-120			
Beryllium	212	0.52	1.0	"	200	106	79-124			
Cadmium	198	0.50	1.0	"	200	99	80-122			
Total Chromium	194	0.58	1.0	"	200	97	81-118			
Cobalt	197	0.50	1.0	"	200	98	80-124			
Copper	193	0.51	1.0	"	200	97	80-117			
Lead	207	0.29	2.0	"	200	103	82-124			
Molybdenum	199	0.61	5.0	"	200	99	82-130			
Nickel	190	0.58	1.0	"	200	95	81-117			
Selenium	220	0.85	5.0	"	200	110	76-144			
Silver	9.38	0.56	1.0	"	10.0	94	20-164			
Thallium	210	0.54	1.0	"	200	105	75-118			
Zinc	209	2.3	10	"	200	105	75-124			
Duplicate (5E14096-DUP1)		Source:	C5E005	4-01RE1	Prepared:	05/06/25 Analyzed	1. 05/08/25			
		oou.cc.	0000	7-VIIVE I	i icpaica.	00/00/20 Analyzed	1. 00/00/20			
Antimony	ND	0.52	1.0	mg/kg	i roparou.	ND	a. 00/00/20		20	
Antimony Arsenic					r roparou.	•	1. 00/00/20	5	20 20	
•	ND	0.52	1.0	mg/kg	1 Toparca.	ND	2. 00/00/20	5 53		QRPDh
Arsenic	ND 2.81	0.52 0.53	1.0 1.0	mg/kg "	r ropurou.	ND 2.69	2. 00/00/20		20	QRPDh
Arsenic Barium	ND 2.81 31.8	0.52 0.53 0.49	1.0 1.0 1.0	mg/kg "	T Topulou.	ND 2.69 18.4	2. 30/00/20		20 20	QRPDh
Arsenic Barium Beryllium	ND 2.81 31.8 ND	0.52 0.53 0.49 0.52	1.0 1.0 1.0 1.0	mg/kg " "	торигоч.	ND 2.69 18.4 ND	2. 30/00/20		20 20 20	QRPDh QRPDh
Arsenic Barium Beryllium Cadmium	ND 2.81 31.8 ND ND	0.52 0.53 0.49 0.52 0.50	1.0 1.0 1.0 1.0	mg/kg " "	торигоч.	ND 2.69 18.4 ND ND	2. 30/00/20	53	20 20 20 20	
Arsenic Barium Beryllium Cadmium Total Chromium	ND 2.81 31.8 ND ND	0.52 0.53 0.49 0.52 0.50 0.58	1.0 1.0 1.0 1.0 1.0	mg/kg " " " "	r ropulou.	ND 2.69 18.4 ND ND 19.4	2. 30/30/20	53 28	20 20 20 20 20 20	QRPDh
Arsenic Barium Beryllium Cadmium Total Chromium Cobalt	ND 2.81 31.8 ND ND 14.6 3.27	0.52 0.53 0.49 0.52 0.50 0.58 0.50	1.0 1.0 1.0 1.0 1.0 1.0	mg/kg " " "	riopulou.	ND 2.69 18.4 ND ND 19.4 4.19	2. 30/30/20	53 28 24	20 20 20 20 20 20	QRPDh
Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper	ND 2.81 31.8 ND ND 14.6 3.27 3.34	0.52 0.53 0.49 0.52 0.50 0.58 0.50 0.51	1.0 1.0 1.0 1.0 1.0 1.0 1.0	mg/kg " " " " "	ricpuleu.	ND 2.69 18.4 ND ND 19.4 4.19 2.98	2. 30/30/20	53 28 24 11	20 20 20 20 20 20 20 20	QRPDh QRPDI
Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead	ND 2.81 31.8 ND ND 14.6 3.27 3.34 4.38	0.52 0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	mg/kg " " " " "	r repureu.	ND 2.69 18.4 ND ND 19.4 4.19 2.98 5.40	2. 30/30/20	28 24 11 21	20 20 20 20 20 20 20 20 20	QRPDh QRPDI QRPDI
Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Molybdenum	ND 2.81 31.8 ND ND 14.6 3.27 3.34 4.38 1.24	0.52 0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29	1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0	mg/kg " " " " " "	Tropuleu.	ND 2.69 18.4 ND ND 19.4 4.19 2.98 5.40 1.60	2. 30/30/20	28 24 11 21 25	20 20 20 20 20 20 20 20 20 20	QRPDh QRPDI QRPDI
Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Molybdenum Nickel	ND 2.81 31.8 ND ND 14.6 3.27 3.34 4.38 1.24 8.79	0.52 0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 0.61	1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 5.0	mg/kg " " " " " " "	Tropuleu.	ND 2.69 18.4 ND ND 19.4 4.19 2.98 5.40 1.60 8.79	2. 30/30/20	28 24 11 21 25	20 20 20 20 20 20 20 20 20 20 20	QRPDh QRPDI QRPDI
Arsenic Barium Beryllium Cadmium Total Chromium Cobalt Copper Lead Molybdenum Nickel Selenium	ND 2.81 31.8 ND ND 14.6 3.27 3.34 4.38 1.24 8.79 ND	0.52 0.53 0.49 0.52 0.50 0.58 0.50 0.51 0.29 0.61 0.58 0.85	1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0 5.0	mg/kg	Tropules.	ND 2.69 18.4 ND ND 19.4 4.19 2.98 5.40 1.60 8.79 ND	2. 30/30/20	28 24 11 21 25	20 20 20 20 20 20 20 20 20 20 20 20	QRPDh QRPDI QRPDI

Babcock Laboratories, Inc. - Riverside



Analyte

Babcock Laboratories, Inc. - Riverside 6100 Quail Valley Court Riverside, CA 92507-0704 (951) 653-3351

State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Result

MDL

Reported: Los Angeles CA, 90013 Project Manager: Emily Duncan 05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control Babcock Laboratories, Inc. - Riverside

Project: RWB4_PostFire_2025

				•						
				0	0		0/ DE0		DDD	
				Spike	Source		%REC		RPD	
Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5E14096, Prep Method: EPA 3050B, An

Duplicate (5E14096-DUP2)	Source:	C5E0054	4-01RE1	Prepared: 05/06/25 Analyzed: 05/08/25			
Antimony ND	2.6	5.0	mg/kg	ND		20	
Arsenic ND	2.7	5.0	"	2.69		20	
Barium 32.2	2.5	5.0	"	18.4	55	20	QRPDI
Beryllium ND	2.6	5.0	"	ND		20	
Cadmium ND	2.5	5.0	"	ND		20	
Total Chromium 14.9	2.9	5.0	"	19.4	26	20	QRPDI
Cobalt 3.50	2.5	5.0	"	4.19	18	20	J
Copper 3.52	2.6	5.0	"	2.98	17	20	J
Lead 4.53	1.4	10	"	5.40	17	20	J
Molybdenum ND	3.1	25	"	ND		20	
Nickel 9.32	2.9	5.0	"	8.79	6	20	
Selenium ND	4.3	25	"	ND		20	
Silver ND	2.8	5.0	"	ND		20	
Thallium ND	2.7	5.0	"	ND		20	
Zinc 22.5	11	50	"	27.8	21	20	QRPDI, J

Matrix Spike (5E14096-MS1)	Source	C5E005	4-01RE1	Prepared:	: 05/06/25	Analyzed	I: 05/08/25
Antimony 16	5 0.52	1.0	mg/kg	200	ND	82	10-156
Arsenic 21	5 0.53	1.0	"	200	2.69	106	77-131
Barium 25	0.49	1.0	"	200	17.7	118	61-132
Beryllium 20	7 0.52	1.0	"	200	ND	103	68-128
Cadmium 20	0.50	1.0	"	200	ND	104	72-121
Total Chromium 23	0.58	1.0	"	200	19.4	107	60-129
Cobalt 20	0.50	1.0	"	200	4.03	102	64-128
Copper 20-	1 0.51	1.0	"	200	2.98	101	36-141
Lead 21	0.29	2.0	"	200	5.40	106	60-126
Molybdenum 20	0.61	5.0	"	200	1.54	102	60-140
Nickel 21	0.58	1.0	"	200	8.79	102	60-135
Selenium 21	0.85	5.0	"	200	ND	109	73-141
Silver 10.	0.56	1.0	"	10.0	ND	102	10-155
Thallium 21	0.54	1.0	"	200	ND	110	57-122
Zinc 24	2.3	10	"	200	27.8	106	26-166

Babcock Laboratories, Inc. - Riverside



Los Angeles CA, 90013

Babcock Laboratories, Inc. - Riverside 6100 Quail Valley Court Riverside, CA 92507-0704 (951) 653-3351

State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitorine Project Manager: Emily Duncan

Reported: 05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control

Babcock Laboratories, Inc. - Riverside

					Spike	Source		%REC		RPD	
Analyte	Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5E14096, Prep Method: EPA 3050B, Analyst: TJK

Matrix Spike Dup (5E14096-MSD1)		Source: C5E0054-01RE1 Prepared: 05/06/25 Analyzed: 05/08/25										
Antimony	163	0.52	1.0	mg/kg	200	ND	81	10-156	0.9	20		
Arsenic	204	0.53	1.0	"	200	2.69	101	77-131	5	20		
Barium	230	0.49	1.0	"	200	17.7	106	61-132	10	20		
Beryllium	201	0.52	1.0	"	200	ND	100	68-128	3	20		
Cadmium	200	0.50	1.0	"	200	ND	100	72-121	4	20		
Total Chromium	219	0.58	1.0	"	200	19.4	100	60-129	7	20		
Cobalt	198	0.50	1.0	"	200	4.03	97	64-128	5	20		
Copper	198	0.51	1.0	"	200	2.98	97	36-141	3	20		
_ead	209	0.29	2.0	"	200	5.40	102	60-126	4	20		
Molybdenum	200	0.61	5.0	"	200	1.54	99	60-140	3	20		
Nickel	202	0.58	1.0	"	200	8.79	96	60-135	5	20		
Selenium	213	0.85	5.0	"	200	ND	107	73-141	3	20		
Silver	9.79	0.56	1.0	"	10.0	ND	98	10-155	4	20		
Thallium	209	0.54	1.0	"	200	ND	105	57-122	5	20		
Zinc	231	2.3	10	"	200	27.8	101	26-166	4	20		

Batch 5E15110, Prep Method: EPA 7471A, Analyst: JTR

Blank (5E15110-BLK1)					Prepared	& Analyze	d: 05/19/2	5	
Mercury	ND	0.017	0.050	mg/kg wet					
LCS (5E15110-BS1)					Prepared	& Analyze	d: 05/19/2	5	
Mercury	0.201	0.017	0.050	mg/kg wet	0.200		101	77-115	
Matrix Spike (5E15110-MS1)		Source:	C5E00	54-01	Prepared	& Analyze	d: 05/19/2	5	
Mercury	0.218	0.017	0.052	mg/kg dry	0.207	ND	105	22-150	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200 Project: RWB4_PostFire_2025
Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Los Angeles CA, 90013 Project Manager: Emily Duncan

Reported: 05/19/25 15:56

Metals and Metalloids; EPA SW846 Series - Quality Control

Babcock Laboratories, Inc. - Riverside

					Spike	Source		%REC		RPD	
Analyte	Result	MDL	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5E15110, Prep Method: EPA 7471A, Analyst: JTR

Matrix Spike Dup (5E15110-MSD1)		Source:	C5E00	54-01	Prepared 8	& Analyze	d: 05/19/2	25			
Mercury	0.213	0.017	0.052	mg/kg dry	0.206	ND	103	22-150	2	25	

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4 320 West Fourth Street, Suite 200

Los Angeles CA, 90013

Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring Reported:

Project Manager: Emily Duncan 05/19/25 15:56

Notes and Definitions

J Estimated value

Nconf Result(s) confirmed by re-analysis.

NMint Due to matrix interference, the matrix spike and/or matrix spike duplicate performed on this sample did not meet laboratory acceptance

criteria.

QFnt The referenced sample did not require this QC analyte, so a follow-up is not needed.

QMint Due to matrix interference, the MS and/or MSD did not meet laboratory acceptance criteria.

QRPDh Due to non-homogeneity of the referenced sample, the replicate analysis did not meet laboratory acceptance criteria

QRPDl Analyte concentration was below range for valid RPD determination.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the Reporting Limit (or Method Detection Limit when listed)

NR Not Reported

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Babcock Laboratories, Inc. - Riverside



State Water Resources Control Board - Region 4

320 West Fourth Street, Suite 200 Los Angeles CA, 90013 Project: RWB4_PostFire_2025

Project Number: RWB4 Post Fire Water and Beach Sand Monitoring

Reported:

05/19/25 15:56

Babcock Laboratories, Inc. - Riverside - Certification(s) List

Cert. ID Description Cert. Number Expires

Babcock Laboratories, Inc. - Riverside

Note: Standard field preservat To obtain appropria https://swamp.waterboards.ca.go Station Code ma Beach 404ZUMAB o Carrillo tite Beach 404ZUMAB Malibu burfrider 404MSBE Topanga 404TOPLA Topan	Project Code		R	RWB4_PostFire_	2025	Agreement No. Analys (e.g.1								(Type/write te group v							
Fiscal Year 24/25 Agency Code RWQCB_4_		Project Name		Region 4 p	ost-fire water ar monitoring	nd beach sand	Results to emity.duncan@waterboard; to add							1	ds = Ni,Cu	Fe, Pb,C	r,Se)		(P)		
ency Code RW	QCB_4_				mountaing		Field Lead			Billy Jaki, 831	236-3337, william.jakl@sjsu.edu		Glass	Biphenyls (PCB	Hex Cr Se						
OR ->							79/353	CONTRACTOR OF					er G	PCE (PCE	As, S						
774	142	Company	421		Water Board	is	Project Lead		-	(041) F76	-6679, emily.duncan@waterboards.ca.gov		Amb	ass (M)	Pb,						
Note:	Standard field preservation	n codes to choose ->		Field Acidif	fied, Field Filtere	ed, FieldFrozen	100 July 100 h	953 (63	Emily Du	ncan, (213) 576	-oo, s, enny duncang water bounds on go		50ml	er Gl 8082	Cd,				200		
		"codes", consult the	SWAMP Datab	ase Look-up-	lists>								- PAHs 250ml Amber	olychlorinated E Amber Glass EPA 8082M)	ace Met Zn, Ag,				200		
https://sw	amp.waterboards.ca.gov/	swamp_checker/Look helpdesk@waterbo	UpLists.aspx ards.ca.gov		OR conta	CT OIMA-	Protocol Code					seles	- PA	Bottle2 - Pol Suite 250ml Congeners-	-Tra	1911			registrate and		
	Otation	Cample	Sample		Location	Collection	Sample	MPSL-DFW_ Collection	Salinity	Container	Sample Comments	samp	Bottle1	ttle2 te 25	Itle3	Dioxins	100	100	100000		
amalalD.		Sample	Time	Replicate	Code	Method Code	Type Code	Depth (m)	(ppt), EC	Material	(Include Preservation Code)	**	B B	S Sui	Bott Mn,	ă					
		4/29/2025	10:20	2	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	×	×	х	х			A 100		
-	40420WAB	- TEGEORG	- 14-54/		2000	1. 4929 (198				Cadimont	ica/See analysis by bottle type	4	x	×	×	x	1		17		
o Carrillo ate Beach	404LEOCAR	4/29/2025	9:40	1	Bank	Sed_Grab	Integrated	2 cm	-88	Sediment	ice/See analysis by bottle type	-	2.0	-							
ma Beach	404ZUMAB	4/29/2025	10:20	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	×	×	X	х		-			
Malibu	404MSBE	4/29/2025	11:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	x	×	х	х	198				
Topanga	404TOPLA	4/29/2025	11:50	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4.	х	x	х	х					
Topanga	404TOPBE	4/29/2025	12:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	х	х	x	×					
Beach /ill Rogers		4/29/2025	12:30	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	×	х	х	×					
MC Rustic		4/29/2025	13:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	x	х	х	х	T A				
Creek IB Montana		4/29/2025	13:30	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	х	x	×	х	13.50	E I	100		
		4/29/2025	14:00	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	х	×	×	x			11		
pier		4/29/2025	14:20	1	Bank	Sed_Grab	Integrated	2cm	-88	Sediment	ice/See analysis by bottle type	4	x	×	x	х			19 0		
kenter			15:30	1	Bank	Sed_Grab	Integrated		-88	Sediment	ice/See analysis by bottle type	4 -	x	x	x	X					
Rose Ave		4/29/2025				2077738		7 1113	-88	Sediment		-	x	x	x	x	-	On l	ce	YES	
nice Beach	404VENICE	4/29/2025	15:00	1	Bank	Sed_Grab	Integrated		-88	Sediment	and the second	+-	×	×	x	x	00		1.		
Beach	404MOTHB	4/30/2025	930	1	Bank	Sed_Grab	-	-		-	and American Line 1	+	×	×	x	x	98	inpi	es Intact	YES	1
	404DOCKB	4/30/2025	830	1	Bank	Sed_Grab	Integrated	1	-88	Sediment	Not the Assessment of the Control of		×	×	-	x	118/	100	2/	·	/
Redondo Break	404REDOB	4/30/2025	750	1	Bank	Sed_Grab	Integrated	2cm	-88	Sedimen		-		-		-			16	6/	
AT Beach	404RATB	4/30/2025	700	1	Bank	Sed_Grab	Integrated	2cm	-88	Sedimen			X	X	X	X			1 1	721.	
quest Details:		Rush	24 hours	48-hours	72 hours	30-days	As quickly	as possible	2	∃ ∣jars	state" Santa Mor	nica	l							20	
	the first of the second section	Ambient/ regelvin			Effluent	e.g.stormwate	er, Oil + Gas	Other		Bea	ach"									1991	
Sample Types	s (i.e. matrix) on this form : (CIRCLE)	water	Sediment	Tissue	gro	undwater				JLH	1 5/1/2025			tribution o	COC for	m: Origin	nal accon	npanies	-	1/	
				Date & Time			Samples Rec				Date & Time	76.2					y emailed		1 /		
me (Print and S	lgn)	7		Date & Time	0										ierra@bal						
							61	5 10	(
illy lakl	- The state of the		4/ 30	/2025			1	(V)	17	X									1		
mr veni	166	(-11	121		01		1	ec. Iren				C	SF	005	5/] [
	418	150			5/1	125		Ello	7	S	seli/ (EV)				1				್ದ ಕ್ರಾನೆಗಳು	!	
						140									KC.0	. 05/0	1/202		ooler	i	