

**SUMMARY REPORT: 2026 AMBIENT AIR
MONITORING FOR ASBESTOS, METALS AND
RESPIRABLE DUSTS
BAY AREA RAPID TRANSIT
M-LINE, OAKLAND AND SAN FRANCISCO, CA**

PREPARED FOR:

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BART SYSTEM SAFETY DEPARTMENT
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SCA PROJECT NO.: F-14529

UPDATED JUNE 30, 2026

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Abstract

This report summarizes the observations and results of ambient air testing for asbestos, metals and total respirable dust conducted at the various Bay Area Rapid Transit (BART) stations with asbestos-containing fireproofing and/or vinyl asbestos floor tiles and mastics. The monitoring was conducted between April 29 – May 1, 2026. SCA collected additional settled dust samples on June 16, 2016. The purpose of monitoring the stations with asbestos-containing fireproofing and/or vinyl asbestos floor tiles and mastic was to determine the level of airborne asbestos in the stations and to assess the potential hazards to occupants.

The sample results revealed airborne asbestos fiber levels were between <0.0011 and 0.0013 fibers/cc based on Phase Contrast Microscopy (PCM) analyses. These results indicate that the airborne asbestos concentration at all sites tested is statistically comparable to background levels, and is not affected by the presence of asbestos-containing construction materials, such as asbestos-containing fireproofing found on the structural members.

The downtown San Francisco stations experience black settled dust from the Muni-Metro system sharing a similar tunnel and ventilation system and from rail grinding activities. Airborne sampling was conducted for total respirable dust. In summary, total respirable dust concentrations were found to be as follows:

- Total respirable dust levels at the Embarcadero Center North Station's Booth adjacent to the Clipper Service Station on the Concourse Level had a concentration ranging from 0.017 to 0.106 mg/m^3 with an average concentration of 0.061 mg/m^3 , or well under the OSHA Permissible Exposure Limit of 5.0 mg/m^3 .
- Total respirable dust levels at the Embarcadero Center Station's South Station Agent's Booth on the Concourse Level had a concentration ranging from 0.011 to 0.246 mg/m^3 with an average concentration of 0.063 mg/m^3 , or well under the OSHA Permissible Exposure Limit of 5.0 mg/m^3 .
- Total respirable dust levels at the Montgomery Station's MMS Room 107 on the Concourse Level had a concentration ranging from 0.011 to 0.041 mg/m^3 with an average concentration of 0.021 mg/m^3 , or well under the OSHA Permissible Exposure Limit of 5.0 mg/m^3 .
- Total respirable dust levels at the Montgomery Station's South Station Agent's Booth on the Concourse Level had a concentration ranging from 0.011 to 0.117 mg/m^3 with an average concentration of 0.038 mg/m^3 , or well under the OSHA Permissible Exposure Limit of 5.0 mg/m^3 .

Finally, settled dust samples from the Montgomery, Powell and Civic Center Station platform Fan Rooms were analyzed for metal content with the following results (see Table 1):

- The Montgomery Street platform settled dust sample has an elevated concentration ($35,600$ mg/kg) of zinc above the TTLC concentration of $5,000$ mg/kg ; defining this material as a hazardous waste. STLC testing of cadmium, chromium, copper, lead and zinc showed that zinc was above the STLC standard.
- The Powell Street platform settled dust sample has an elevated concentration ($5,750$ mg/kg) of zinc above the TTLC concentration of $5,000$ mg/kg ; defining this material as a hazardous waste. STLC testing of chromium, copper, lead and zinc showed that all results were below the STLC standard.
- The Civic Center platform settled dust sample will require STLC testing of cadmium, chromium, copper, lead and zinc to determine the leachability of these metals. STLC testing of cadmium, chromium, copper, lead and zinc showed that lead and zinc were above the STLC standard.

Table 1: CAM-17 Settled Dust Analyses

Metal	Montgomery Settled dust TTLC (mg/kg)	Montgomery Settled dust STLC (mg/L)	Powell Station Settled dust TTLC (mg/kg)	Powell Station Settled dust STLC (mg/L)	Civic Center Settled dust TTLC (mg/kg)	Civic Center Settled dust STLC (mg/L)	Title 22 Hazardous Waste TTLC Standard (mg/kg)	Title 22 Hazardous Waste STLC Std. (mg/l)	Comments
Antimony	29.9	NA	18.5	NA	13.8	NA	500	15	Below Title 22 TTLC Std.
Arsenic	ND	NA	ND	NA	ND	NA	50	5.0	Below Title 22 TTLC Std.
Barium	486	NA	218	NA	229	NA	10000	100	Below Title 22 TTLC Std.
Beryllium	ND	NA	ND	NA	ND	NA	75	0.75	Below Title 22 TTLC Std.
Cadmium	20	<0.05	ND	NA	ND	NA	100 ⁽¹⁾	1.0	Below Title 22 TTLC Std.
Chromium	118	1.21	87.2	0.884	89.5	2.39	500 (CrVI)	5.0	Below Title 22 TTLC Std.
Cobalt	15.8	15.8	13.6	NA	23.4	NA	8000	80	Below Title 22 TTLC Std.
Copper	827	2.16	1040	4.55	1270	16.3	2,500	25	Below Title 22 TTLC Std.
Lead	763	3.87	153	3.45	148	9.89⁽¹⁾	1,000	5.0	Above Title 22 STLC Std. for Civic Center
Mercury	ND	NA	ND	NA	ND	NA	20	0.2	Below Title 22 TTLC Std.
Molybdenum	17.4	NA	ND	NA	10.5	NA	3500	350	Below Title 22 TTLC Std.
Nickel	88.7	NA	58.4	NA	66.8	NA	2000	20	Below Title 22 TTLC Std.
Selenium	ND	NA	ND	NA	ND	NA	100	1.0	Below Title 22 TTLC Std.
Silver	ND	NA	ND	NA	ND	NA	500	5.0	Below Title 22 TTLC Std.
Thallium	ND	NA	ND	NA	ND	NA	700	7.0	Below Title 22 TTLC Std.
Vanadium	36.7	NA	39.2	NA	53.7	NA	2400	24	Below Title 22 TTLC Std.
Zinc	35,600⁽¹⁾	655⁽¹⁾	5,750⁽¹⁾	233	3,990	320⁽¹⁾	5000	250	Above Title 22 TTLC Std. for Montgomery and Powell. Above Title 22 STLC Std. for Montgomery and Civic Center.

ND = None Detected; NA = Not Applicable

(1) For waste disposal purposes, generally is considered a hazardous waste

Project Personnel

BAY AREA RAPID TRANSIT (BART)

District Industrial Hygienist Jonathan S. Rossen, CIH, CSP

SCA ENVIRONMENTAL, INC. (SCA)

Certified Industrial Hygienist Dan Leung, CIH, CSP, CAC #07-4175

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1.0 Introduction

This report summarizes the sampling results collected during the ambient air monitoring for asbestos conducted in the Bay Area Rapid Transit's system-wide stations with asbestos-containing fireproofing and/or vinyl asbestos floor tiles and mastic. The airborne asbestos sampling included the following stations:

- Powell Street Station, San Francisco, CA
- Montgomery Street Station, San Francisco, CA
- 12th Street Station, Oakland, CA
- 19th Street Station, Oakland, CA
- MacArthur Station, Oakland, CA
- Berkeley Main Station, Berkeley, CA
- Ashby Station, Berkeley, CA
- 16th Street Station, San Francisco, CA
- 24th Street Station, San Francisco, CA
- Rockridge Station, Oakland, CA
- Lafayette Station, Lafayette, CA

SCA Environmental, Inc. (SCA) conducted the monitoring between April 29 – May 1, 2026 at the request of the Bay Area Rapid Transit District's System Safety Department.

Portions of the systems' structural steel are protected with fireproofing that contains 5 to 10% Chrysotile asbestos. In addition, several other construction materials contain asbestos (including various vinyl floor tiles and mastics in various Train Control Rooms throughout the legacy stations. Asbestos is regulated as a respiratory carcinogen. In order to verify that the operations and maintenance program implemented for this building are working properly, testing for the levels of airborne asbestos fibers is conducted periodically.

2.0 Methodology

Asbestos

Ambient air samples for asbestos were collected at the following stations and quantities:

- San Francisco
 - Powell Street Station (2)
 - Montgomery Street Station (2)
- Oakland
 - 12th Street Station (1)
 - 19th Street Station (1)
 - MacArthur Station (1)
 - Berkeley Main Station (1)
 - Ashby Station (1)
- M-Line
 - 16th Street (1)
 - 24th Street (1)
- C-Line
 - Rockridge (1)
 - Lafayette (1)

All the asbestos samples were analyzed by Phase Contrast Microscopy (PCM), except for the project blanks, in accordance with the National Institute for Occupational Safety and Health (NIOSH) method 7400. PCM results are calculated in fibers per cubic centimeter (f/cc).

All air samples were collected for an approximately 24-hour period using Buck Libra low flow, AC-operated or similar air pumps to maintain even flow rates. Samples were collected on Zefon International Inc. Model Z008BA 25-millimeter, 0.8-micrometer pore size, mixed cellulose ester membrane filters in open-faced cassettes with conductive cowls. Pump flow rates were calibrated against a primary standard.

The contract laboratories that provided analytical services for the project are summarized below:

Laboratory	Analysis Type	Accreditation
Asbestos TEM Laboratories, Inc. Oakland, CA	Phase Contrast Microscopy (PCM) Analysis	• National Voluntary Laboratory Accreditation Program (NVLAP # 101891-0). • California State Environmental Laboratory Accreditation Program (ELAP #1866).
McCampbell Analytical, Inc. Pittsburg, CA	CAM-17 Metals Analysis	• AIHA Laboratory Accreditation Program (LAP# 232255). • California Environmental Laboratory Accreditation Program (ELAP #1644).

Respirable Dust

Ambient sampling for total respirable dust was conducted at two downtown San Francisco stations, which experience black settled dust deposits associated with the Muni-Metro system within the same tunnels and ventilation system and wheel grinding activities. Total respirable dust sampling was conducted at:

- Montgomery Street Station, San Francisco, CA
- Embarcadero Station, San Francisco, CA

Particulate readings were made utilizing a TSI Dust-Trak, which measures respirable dust or PM₁₀ levels. Measurements are reported as mg/m³.

Particulate matter (PM) is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in size, shape and chemical composition, and can be made up of many different materials, such as metals, settled dust, soil, dust, mold and fungi. Particles 10 microns or less in diameter are defines as “respirable particulate matter” or PM₁₀. Fine particles are 2.5 microns or less in diameter (PM_{2.5}) and can contribute significantly to regional haze and reduction in visibility.

Spot Particulate Sampling.

In addition to the longer-term respirable dust sampling at the two BART stations noted above, SCA conducted spot sampling at agent booths, ticket machines and platform to determine typical PM₁₀ and PM_{2.5} concentrations for BART passengers and employees. Stations sampled included 24th Street through Embarcadero in San Francisco, and the 12th Street and 19th Street in Oakland.

Particulate readings were made utilizing a TSI Dust-Trak, which measures PM_{2.5} and PM₁₀ levels.

Settled Dust Sampling

CAM-17 metal analyses were completed for settled dust samples collected in the Montgomery, Powell and Civic Center stations platform Fan Rooms by EPA Method 6010B/7470A by McCampbell Analytical Inc.’s ELAP-accredited laboratory in Pittsburg, CA.

3.0 Applicable Standards

Asbestos

A summary of airborne asbestos standards applicable to this project is tabulated in Table 2 as follows:

Table 2: Summary of Asbestos Standards

Source	Level	Nature	Comments
Cal/OSHA ¹	0.1 f/cc	Occupational & mandatory	8-hour Time Weighted Average (TWA) Permissible Exposure Level (PEL) (triggers OSHA required training, medical examinations, etc.)
	1.0 f/cc		Excursion Limit (EL) for 30 minutes sampling duration
NIOSH ²	0.1 f/cc	Recommended	Occupational PEL
ACGIH ³	0.1 f/cc	Recommended	Occupational Threshold Limit Value (TLV) Notice of Intended Changes
Bay Area Rapid Transit	0.01 f/cc (PCM)	Contractual & mandatory	Ambient air action level for occupied areas via PCM. Originating from AHERA ⁴ regulations and adopted by Bay Area Rapid Transit.
	70 str/mm ² (TEM)	Contractual & mandatory	Ambient air action level for occupied areas via TEM. Originating from AHERA ⁴ regulations and adopted by Bay Area Rapid Transit.

1 California Department of Industrial Relations, Division of Occupational Safety and Health, 8 CCR 1529.

2 National Institute of Occupational Safety and Health

3 American Conference of Governmental Industrial Hygienists, 2004

4 Asbestos Hazard Emergency Response Act (AHERA); 40 CFR Part 763

Respirable Dust

Extensive research indicates that exposure to PM₁₀ and PM_{2.5} levels exceeding current air quality standards is associated with increased risk of hospitalization for lung and heart-related respiratory illness, including emergency room visits for asthma. PM exposure is also associated with increased risk of premature deaths, especially in the elderly and people with pre-existing cardiopulmonary disease. In children, studies have shown associations between PM exposure and reduced lung function and increased respiratory symptoms and illnesses.

Table 3 below summarizes the applicable published Cal/OSHA and ACGIH permissible exposure limits for respirable dust as well as the California Air Resources Board's standards. Note that some of the addressed standards cover office environments and are not occupational exposure standards for BART station employees. In addition, many of these standards are arithmetic mean levels over a 24-hour or annual period; therefore, exposure within the BART system needs to be time-weighted against other daily or annual exposures outside the BART system.

Table 3: Summary of Respirable Dust Standards

Contaminant	Source	Level	Nature	Comments
Particulate	N/A	ambient	N/A	Compare against outdoor readings to indicate effectiveness of filter units in air handling system
	Cal/OSHA ¹	5 mg/m ³	Mandatory/ Occupational	8-hour TWA PEL for respirable dust
		10 mg/m ³		8-hour TWA PEL for total dust
	ACGIH ²	10 mg/m ³	Recommended/ Occupational	8-hour TWA TLV resulting in lung disorders
	EPA ³	0.05 mg/m ³	Recommended/ Indoor Occupancy (Offices)	National Ambient Air Quality Standard
Respirable Particles (PM ₁₀)	ASHRAE ⁴	0.05 mg/m ³	Recommended Indoor Occupancy (Offices)	Based on protecting office environments against respiratory morbidity in the general population and avoiding exacerbation of asthma with no carcinogens. Indoor concentrations are normally lower. Guideline level may lead to unacceptable deposition of "dust."
	CARB ⁵	0.05 mg/m ³	Recommended by CARB	24 hour California Air Resources Board Maximum Indoor Level
		0.02 mg/m ³		Annual arithmetic mean level
	EPA ³	0.15 mg/m ³	Recommended by LEED Program (for Offices)	National Ambient Air Quality Standard
	LEED ⁶	0.05 mg/m ³	Recommended by LEED Program (for Offices) ⁶	8-hour TWA PEL for respirable dust for office environments using a TSI Sidepak Aerosol Monitor or PEM Sampler with PM ₁₀ lab analyses
Respirable Particles (PM _{2.5})	CARB ⁵	0.02 mg/m ³	Recommended by CARB	Annual arithmetic mean level
	EPA ³	0.035 mg/m ³	Recommended by EPA	24-hr arithmetic mean level

Table 1 Footnotes:

1. California Department of Industrial Relations, Division of Occupational Safety and Health, Title 8 General Safety Orders §5155.
2. American Conference of Governmental Industrial Hygienists, 2016, Threshold Limit Values for Chemical Substances and Physical Agents
3. U.S. Environmental Protection Agency, National Ambient Air Quality Standard.
4. ASHRAE Standards 62-1989R, Appendix C-1, August 1996, and 62.1-2004, Appendix B.
5. California Air Resources Board, June 2005, "Draft for Public Review – Report to the California Legislature Indoor Air Pollution in California," Table 4.1.
6. U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED), Indoor Air Quality testing, credit 3.2, November 2008.

CAM-17 Metals

Total Threshold Limit Concentrations (TTLC), Soluble Threshold Limit Concentrations (STLC), and Toxicity Characteristic Leaching Procedure (TCLP) limits are published under Title 22 of the California Code of Regulations §662261.24 for classifying hazardous waste. Applicable standards for the CAM-17 metals are included in Tables 1, 7 and 8 herein.

4.0 Results and Discussion

Asbestos

Sampling was conducted as part of the BART's Ambient Air Quality Monitoring Program, since the listed stations have asbestos-containing fireproofing. Sampling was conducted for an approximately 24-hour period between April 29 to April 30, 2026 in the San Francisco stations and April 30 to May 1, 2026 in the East Bay Stations.

At the request of Mr. Jonathan S. Rossen within BART's System Safety Department, SCA Environmental, Inc. (SCA) conducted visual inspections and ambient air testing. SCA's Industrial Hygienist, Dan Leung, CIH, CSP, CAC, CDPH of SCA conducted the work. Mr. Leung is a Cal/OSHA registered Certified Asbestos Consultant (CAC #07-4175) and a Certified Industrial Hygienist (CIH).

The ambient air sampling results for the Stations are summarized in Table 4 below. The laboratory reports and field data sheets are included as Attachment 1. All observed asbestos-containing fireproofing was noted to be in "good" condition. No notable areas of imminent danger were observed within the representative areas viewed by SCA's Surveyor. Asbestos fireproofing on the Concourse Level of the Powell Street Station was significantly abated since the prior ambient air sampling in May 2011.

Background airborne fiber concentrations by PCM were as follows:

Table 4: Summary of Airborne Asbestos Results

Station	Location	Sample I.D.	Results (fibers/cc)	Comments
24th St Mission	Mech Rm 101A	24-101A	<0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
16th St Mission	Mech Rm 101A	16-101A	<0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Powell Street	Police Conference Rm	POW-PBR	<0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Berkeley	Electrical Rm 110	POW-110	<0.0012	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Montgomery Street	Coffee Shop Stor Rm 110 (enter from restroom)	MONT-110	<0.0011	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
19 th St. Oakland	Storage Rm 111	MONT-111	<0.0011	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
12th Street	Electrical Rm 107C	12-107C	<0.0014	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
19th Street	Mech Rm 108A	19-108A	<0.0012	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
MacArthur	Break Rm 102	MAC-102	<0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Downtown Berkeley	Break Rm 108	BERK-108	<0.0012	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Ashby	Elevator Rm 204	ASH-204	<0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Rockridge	Janitor's Rm 203	ROCK-203	<0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc
Lafayette	Train Control Rm 103	LAFA-103	0.0013	Well below the EPA's PCM Reoccupancy Air Standard of 0.01 f/cc

All ambient station air samples were below BART's Perimeter Action Level of 0.01 fibers per cubic centimeter (fibers/cc). The results were generally found to be comparable to the previous sampling rounds completed by SCA.

Respirable Dust (PM_{10})

SCA sampled for respirable dust at two San Francisco Stations to determine typical airborne dust concentrations. Sampling occurred during typical daytime and nighttime operations with the fans on as well as overnight. The purpose of this sampling was to determine the concentrations of black carbon settled dust arising from the Muni-Metro system, which shares a common ventilation system.

Total respirable dust concentrations were found to be as follows:

Table 5: Respirable Dust Concentrations

Location	Start Date	Sampling Time	Respirable Dust Concentration			Permissible Exposure Limit (mg/m ³)	Comments
			Max. Level (mg/m ³)	Min. Level (mg/m ³)	Average Level (mg/m ³)		
Embarcadero Concourse Level North Station Agent's Booth	4/30/26	22:51 hrs.	0.106	0.017	0.061	5.0	Well Below 8-hr. PEL
Embarcadero Concourse Level South Station Agent's Booth	4/30/26	22:48 hrs.	0.246	0.011	0.063	5.0	Well Below 8-hr. PEL
Montgomery Station MMS Rm 101C	4/29/26	23:42 hrs.	0.041	0.011	0.021	5.0	Well Below 8-hr. PEL
Montgomery Concourse Level South Station Agent's Booth	4/29/26	23:25 hrs.	0.117	0.011	0.038	5.0	Well Below 8-hr. PEL

All sample results were found to be well under Cal/OSHA's occupational exposure standard of 5.0 mg/m³.

Spot PM_{10} and $PM_{2.5}$ Reading

The results of spot PM_{10} and $PM_{2.5}$ readings for various San Francisco and Oakland Line stations are presented in Table 6.

Table 6: Spot PM₁₀ and PM_{2.5} Readings

Station	Date	Time	Location	PM ₁₀ Concentrations (mg/m ³)			PM _{2.5} Concentrations (mg/m ³)		
				Max	Avg.	Min.	Max	Avg.	Min
CAAQS Std. ⁽¹⁾					0.05			0.035	
Cal/OSHA 8-hr. PEL Respirable Dust ⁽²⁾					5			---	
24 th St. Mission	4/29/2026	10:44 a.m.	Agent Booth	0.067	0.048	0.040	0.043	0.038	0.034
24 th St. Mission	4/29/2026	10:45 a.m.	Ticket Machines	0.053	0.041	0.025	0.043	0.034	0.022
24 th St. Mission	4/29/2026	10:32 a.m.	Platform	0.095	0.087	0.064	0.082	0.072	0.057
16 th St. Mission	4/29/2026	10:26 a.m.	Agent Booth	0.108	0.062	0.045	0.079	0.063	0.049
16 th St. Mission	4/29/2026	10:27 a.m.	Ticket Machines	0.104	0.033	0.013	0.045	0.029	0.013
16 th St. Mission	4/29/2026	10:28 a.m.	Platform	0.115	0.087	0.075	0.086	0.076	0.068
Civic Center	4/29/2026	10:15 a.m.	North Primary Agent Booth	0.045	0.047	0.044	0.048	0.045	0.043
Civic Center	4/29/2026	10:16 a.m.	North Ticket Machines	0.040	0.056	0.017	0.099	0.053	0.017
Civic Center	4/29/2026	10:06 a.m.	Platform	0.069	0.084	0.053	0.113	0.083	0.053
Powell	4/29/2026	9:43 a.m.	Police Conf Rm/Squad Rm	0.035	0.027	0.026	0.030	0.027	0.025
Powell	4/29/2026	9:57 a.m.	South Agent Booth	0.059	0.020	0.016	0.028	0.020	0.017
Powell	4/29/2026	9:52 a.m.	North Ticket Machines	0.060	0.115	0.089	0.125	0.108	0.088
Montgomery	4/29/2026	8:56 a.m.	North Agent Booth	0.068	0.023	0.022	0.026	0.025	0.024
Montgomery	4/29/2026	8:55 a.m.	North Ticket Machines	0.058	0.020	0.017	0.023	0.020	0.019
Montgomery	4/29/2026	9:03 a.m.	Platform	0.144	0.030	0.027	0.032	0.031	0.029
Embarcadero	4/30/2026	8:49 a.m.	Southwest Agent Booth	0.139	0.017	0.017	0.020	0.019	0.019
Embarcadero	4/30/2026	9:04 a.m.	Southwest Ticket Machines	0.138	0.017	0.016	0.021	0.020	0.019
Embarcadero	4/30/2026	9:05 a.m.	Platform	0.135	0.049	0.045	0.053	0.048	0.044
12 th St. Oakland	4/30/2026	10:49 a.m.	Central Agent Booth	0.040	0.021	0.020	0.020	0.019	0.019
12 th St. Oakland	4/30/2026	10:39 a.m.	North Ticket Machines	0.044	0.020	0.019	0.021	0.019	0.018
12 th St. Oakland	4/30/2026	10:38 a.m.	Upper Platform	0.045	0.025	0.023	0.026	0.024	0.021
19 th St. Oakland	4/30/2026	10:58 a.m.	Northeast Ticket Machines	0.059	0.020	0.019	0.024	0.021	0.020
19 th St. Oakland	4/30/2026	10:59 a.m.	Central Agent Booth	0.058	0.015	0.014	0.018	0.017	0.016
19 th St. Oakland	4/30/2026	11:00 a.m.	Lower Platform	0.060	0.015	0.014	0.017	0.016	0.017
			Maximum	0.144	0.115	0.089	0.125	0.108	0.088
			Minimum	0.035	0.015	0.013	0.017	0.016	0.013

Station	Date	Time	Location	PM ₁₀ Concentrations (mg/m ³)			PM _{2.5} Concentrations (mg/m ³)		
				Max	Avg.	Min.	Max	Avg.	Min
CAAQS Std. ⁽¹⁾					0.05			0.035	
Cal/OSHA 8-hr. PEL Respirable Dust ⁽²⁾					5			---	
			Average	0.077	0.041	0.032	0.047	0.039	0.031

Source: (1) California Environmental Protection Agency Air Resources Board, April 25, 2005
<http://www.arb.ca.gov/research/aaqs/caaqs/pm/pm.htm>
 (2) Table AC-1 Permissible Exposure Limits for Chemical Contaminants
https://www.dir.ca.gov/title8/5155table_ac1.html

None of the spot measurements found PM₁₀ levels exceeding Cal/OSHA's 8-hr. Permissible Exposure Limit of 5.0 mg/m³; Cal/OSHA has no established occupational standard for PM_{2.5}. While the short-term PM_{2.5} exposures exceed the EPA/CARB level of 0.035 mg/m³, the EPA/CARB standard is an annual average concentration. Passengers and employees need to weigh their exposures outside of the station with the time-weighted exposures indoors. Note that the airborne levels within the BART system largely contain carbon, cellulose, silica and iron as contaminants, based on previous bulk sample analyses.

Cleanup of the stations with HEPA-filtered vacuums would help reduce the airborne dust concentrations. Use of power washing would require proper filtering and disposal of the waste water because of its metal content.

Settled Dust

Settled dust samples were collected within the platform fan rooms at three San Francisco Stations to determine their metal content. Analyses were completed by McCampbell Analytical Inc.'s ELAP-accredited laboratory. The results of the CAM-17 analyses are as follows:

Table 7: Settled Dust CAM-17 TTLC Metal Analyses

Metal	Montgomery Settled dust TTLC (mg/kg)	Montgomery Settled dust STLC (mg/L)	Powell Station Settled dust TTLC (mg/kg)	Powell Station Settled dust STLC (mg/L)	Civic Center Settled dust TTLC (mg/kg)	Civic Center Settled dust STLC (mg/L)	Title 22 Hazardous Waste TTLC Standard (mg/kg)	Title 22 Hazardous Waste STLC Std. (mg/l)	Comments
Antimony	29.9	NA	18.5	NA	13.8	NA	500	15	Below Title 22 TTLC Std.
Arsenic	ND	NA	ND	NA	ND	NA	50	5.0	Below Title 22 TTLC Std.
Barium	486	NA	218	NA	229	NA	10000	100	Below Title 22 TTLC Std.
Beryllium	ND	NA	ND	NA	ND	NA	75	0.75	Below Title 22 TTLC Std.
Cadmium	20	<0.05	ND	NA	ND	NA	100 ⁽¹⁾	1.0	Below Title 22 TTLC Std.

Metal	Montgomery Settled dust TTLC (mg/kg)	Montgomery Settled dust STLC (mg/L)	Powell Station Settled dust TTLC (mg/kg)	Powell Station Settled dust STLC (mg/L)	Civic Center Settled dust TTLC (mg/kg)	Civic Center Settled dust STLC (mg/L)	Title 22 Hazardous Waste TTLC Standard (mg/kg)	Title 22 Hazardous Waste STLC Std. (mg/l)	Comments
Chromium	118	1.21	87.2	0.884	89.5	2.39	500 (CrVI)	5.0	Below Title 22 TTLC Std.
Cobalt	15.8	15.8	13.6	NA	23.4	NA	8000	80	Below Title 22 TTLC Std.
Copper	827	2.16	1040	4.55	1270	16.3	2,500	25	Below Title 22 TTLC Std.
Lead	763	3.87	153	3.45	148	9.89⁽¹⁾	1,000	5.0	Above Title 22 STLC Std. for Civic Center
Mercury	ND	NA	ND	NA	ND	NA	20	0.2	Below Title 22 TTLC Std.
Molybdenum	17.4	NA	ND	NA	10.5	NA	3500	350	Below Title 22 TTLC Std.
Nickel	88.7	NA	58.4	NA	66.8	NA	2000	20	Below Title 22 TTLC Std.
Selenium	ND	NA	ND	NA	ND	NA	100	1.0	Below Title 22 TTLC Std.
Silver	ND	NA	ND	NA	ND	NA	500	5.0	Below Title 22 TTLC Std.
Thallium	ND	NA	ND	NA	ND	NA	700	7.0	Below Title 22 TTLC Std.
Vanadium	36.7	NA	39.2	NA	53.7	NA	2400	24	Below Title 22 TTLC Std.
Zinc	35,600⁽¹⁾	655⁽¹⁾	5,750⁽¹⁾	233	3,990	320⁽¹⁾	5000	250	Above Title 22 TTLC Std. for Montgomery and Powell. Above Title 22 STLC Std. for Montgomery and Civic Center.

ND = None Detected

N/A = TTLC results under 10% of standard, so extraction testing is not required

TTLC = Total Threshold Limit Concentration in ppm or mg/kg

STLC = Soluble Threshold Limit Concentrations in mg/liter

The results of the CAM-17 analyses are as follows:

- The Montgomery Street platform settled dust sample has an elevated concentration (35,600 mg/kg) of zinc above the TTLC concentration of 5,000 mg/kg; defining this material as a hazardous waste. STLC testing of cadmium, chromium, copper, lead and zinc showed that zinc was above the STLC standard.
- The Powell Street platform settled dust sample has an elevated concentration (5,750 mg/kg) of zinc above the TTLC concentration of 5,000 mg/kg; defining this material as a hazardous waste. STLC testing of chromium, copper, lead and zinc showed that all results were below the STLC standard.
- The Civic Center platform settled dust sample will require STLC testing of cadmium, chromium, copper, lead and zinc to determine the leachability of these metals. STLC testing of cadmium, chromium, copper, lead and zinc showed that lead and zinc were above the STLC standard.

No suspect materials were collected for Polarized Light Microscopy (PLM) analysis.

For informational purposes the metal concentrations in May 2011 for the Powell, Montgomery and Embarcadero Stations were as follows:

- Airborne lead concentrations during the sampling periods were all below $0.014 \mu\text{g}/\text{m}^3$, or less than the analytical detection limit. All perimeter airborne lead concentrations were well below Cal/OSHA's Action Level or Permissible Exposure Level (PEL) of $30 \mu\text{g}/\text{m}^3$ and $50 \mu\text{g}/\text{m}^3$, respectively, as well as the National Ambient Air Quality Standard (NAAQS) of $1.5 \mu\text{g}/\text{m}^3$.
- Airborne iron concentrations during the sampling period ranged from <4.6 to $80 \mu\text{g}/\text{m}^3$. All airborne iron concentrations were well below Cal/OSHA's Permissible Exposure Level (PEL) of $5,000 \mu\text{g}/\text{m}^3$.
- Airborne copper concentrations during the sampling period ranged from <0.11 to $1.1 \mu\text{g}/\text{m}^3$, or well below Cal/OSHA's Permissible Exposure Level (PEL) of $100 \mu\text{g}/\text{m}^3$ for copper fume.
- Airborne zinc concentrations during the sampling period were all below $1.4 \mu\text{g}/\text{m}^3$, or less than the analytical detection limit, or well below Cal/OSHA's Permissible Exposure Level (PEL) of $5,000 \mu\text{g}/\text{m}^3$ for zinc fumes.
- Airborne nickel concentrations during the sampling period ranged from <0.11 to $0.39 \mu\text{g}/\text{m}^3$, or well below Cal/OSHA's Permissible Exposure Level (PEL) of $1,000 \mu\text{g}/\text{m}^3$.
- Airborne chromium concentrations during the sampling period all ranged from 0.12 to $0.21 \mu\text{g}/\text{m}^3$, or well below Cal/OSHA's Permissible Exposure Level (PEL) of $500 \mu\text{g}/\text{m}^3$.

Please feel free to contact me directly if you have any questions.

Sincerely,
SCA ENVIRONMENTAL, INC.



Dan Leung, CIH, CSP, CAC #07-4175, CDPH #7329
Vice-President, Industrial Hygiene
(415) 867-9544
dleung@sca-enviro.com

Attachment 1

Laboratory Results – Airborne Asbestos

Station	Location	Level	Sample ID	Start (LPM)	Stop (LPM)	Average Flow Rate (LPM)	Height (ft)	Pump ID	Sampled Date	Time On	Time Off	Sampled Time (min)	Sample Volume (L)	PCM Results (f/cc)
24th St Mission	Mech Rm 101A	Concourse	24-101A	1.5	1.5	1.5	5	4365	4/29/26 - 4/30/26	10:40	10:01	1401	2102	<0.0013
16th St Mission	Mech Rm 101A	Concourse	16-101A	1.5	1.5	1.5	5	SCA1020	4/29/26 - 4/30/26	10:20	9:47	1407	2111	<0.0013
Powell Street	Police Conference Rm	Concourse	POW-PBR	1.5	1.5	1.5	5	SCA1008	4/29/26 - 4/30/26	9:40	9:14	1414	2121	<0.0013
	Electrical Rm 110	Concourse	POW-110	1.6	1.6	1.6	5	3274	4/29/26 - 4/30/26	9:50	9:21	1411	2258	<0.0012
Montgomery Street	Coffee Shop Stor Rm 110 (enter from restroom)	Concourse	MONT-110	1.7	1.7	1.7	5	3275	4/29/26 - 4/30/26	8:26	8:27	1441	2450	<0.0011
	Storage Rm 111	Concourse	MONT-111	1.7	1.7	1.7	5	SCA1001	4/29/26 - 4/30/26	8:38	8:36	1438	2445	<0.0011
12th Street	Electrical Rm 107C	Concourse	12-107C	1.5	1.5	1.5	5	7365	4/30/26 - 5/1/26	10:35	8:31	1316	1974	<0.0014
19th Street	Mech Rm 108A	Concourse	19-108A	1.7	1.7	1.7	5	SCA1020	4/30/26 - 5/1/26	10:55	8:40	1305	2219	<0.0012
MacArthur	Break Rm 102	Ground	MAC-102	1.6	1.6	1.6	5	7363	4/30/26 - 5/1/26	11:20	9:01	1301	2082	<0.0013
Downtown Berkeley	Break Rm 108	Concourse	BERK-108	1.7	1.7	1.7	5	3274	4/30/26 - 5/1/26	12:05	9:30	1285	2185	<0.0012
Ashby	Elevator Rm 204	Platform	ASH-204	1.6	1.6	1.6	5	SCA1008	4/30/26 - 5/1/26	11:48	9:21	1293	2069	<0.0013
Rockridge	Janitor's Rm 203	Concourse	ROCK-203	1.6	1.6	1.6	5	SCA1001	4/30/26 - 5/1/26	12:29	10:09	1300	2080	<0.0013
Lafayette	Train Control Rm 103	Ground	LAFA-103	1.8	1.8	1.8	5	3275	4/30/26 - 5/1/26	12:49	10:26	1297	2335	0.0013

PHASE CONTRAST MICROSCOPY ANALYTICAL REPORT

NIOSH 7400 Method

Results Page: 1 of 2

Contact: Dan Leung	Samples Submitted: 14	Report No.: 405566
Address: SCA Environmental, Inc. 320 Justin Drive San Francisco, CA 94112	Samples Analyzed: 13	Date Reported: May-08-26
	Job Site / No. F-14529	Date Submitted: 050426
	F14529-DL	

SAMPLE ID	FIBERS per CC	95% UCL	FIBERS per FIELDS	FIBERS per FILTER	LOCATION / DESCRIPTION
24-101A Lab ID # 532-13147-001	< 0.0013	0.0028	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2102
16-101A Lab ID # 532-13147-002	< 0.0013	0.0034	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2111
POW-PBR Lab ID # 532-13147-003	< 0.0013	0.0028	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2121
POW-110 Lab ID # 532-13147-004	< 0.0012	0.0022	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2258
MONT-110 Lab ID # 532-13147-005	< 0.0011	0.0029	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2450
MONT-111 Lab ID # 532-13147-006	< 0.0011	0.0020	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2445
12-107C Lab ID # 532-13147-007	< 0.0014	0.0037	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 1974
19-108A Lab ID # 532-13147-008	< 0.0012	0.0024	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2219
MAC-102 Lab ID # 532-13147-009	< 0.0013	0.0029	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2082
BERK-108 Lab ID # 532-13147-010	< 0.0012	0.0033	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2185

Detection Limit = 7 Fibers/MM2

Analyst



Jie Zhang

PHASE CONTRAST MICROSCOPY ANALYTICAL REPORT

NIOSH 7400 Method

Results Page: 2 of 2

Contact: Dan Leung Address: SCA Environmental, Inc. 320 Justin Drive San Francisco, CA 94112	Samples Submitted: 14 Samples Analyzed: 13 Job Site / No. F-14529 F14529-DL	Report No.: 405566 Date Reported: May-08-26 Date Submitted: 050426
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SAMPLE ID	FIBERS per CC	95% UCL	FIBERS per FIELDS	FIBERS per FILTER	LOCATION / DESCRIPTION
ASH-204 Lab ID # 532-13147-011	< 0.0013	0.0029	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2069
ROCK-203 Lab ID # 532-13147-012	< 0.0013	0.0023	< $\frac{5.5}{100}$	< 2697	Volume(L) Run Time(Min) Flow Rate(LPM) 2080
Lafa-103 Lab ID # 532-13147-013	0.0013	0.0022	$\frac{6.0}{100}$	2943	Volume(L) Run Time(Min) Flow Rate(LPM) 2335
Blank Lab ID # 532-13147-014	NA	NA	$\frac{NA}{100}$	NA	Hold Volume(L) Run Time(Min) Flow Rate(LPM)
Lab ID #					Volume(L) Run Time(Min) Flow Rate(LPM)
Lab ID #					Volume(L) Run Time(Min) Flow Rate(LPM)
Lab ID #					Volume(L) Run Time(Min) Flow Rate(LPM)
Lab ID #					Volume(L) Run Time(Min) Flow Rate(LPM)
Lab ID #					Volume(L) Run Time(Min) Flow Rate(LPM)
Lab ID #					Volume(L) Run Time(Min) Flow Rate(LPM)

Detection Limit = 7 Fibers/MM2

Analyst 
Jie Zhang

Email report/COC/Invoice to:

Bill to: SCA

Das Leasing (PRAXIS MGR)

Dao Leung (PR/M MGR)

EMAIL HEADING: (Project#) - (Project Manager Initials) - (Site Name/Address) - (Date M/M/YY)

EMAIL HEADING: (Project#) - (Project Manager Initials) - (Site Name/Address) - (Date M/M/YY)

Don Leung	TRICH
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LAB ITEM

labreports99@gmail.com (ACCT)

COURIER

INSTRUCTIONS TO LAB:

LAB REP NOTIFIED

Notification DATE/TIME

COURIER (UPS, SDC T₇)

LAST 5 OF TRACKING NUMBER:

EST ARRIVAL DATE

EST. ARRIVAL TIME

Method Reference

7400 PCM

AHERA TEM (≤ 0.005 sl/cc AnaSen)

CARBAMERATEM 0.001 w/w Ana Sme

PLM (asbestos)

Flame AA (Lead)

ICP (Lead)

Sample Media

(25)

37 mm

0.45

0.5 micron



Radio	Water	Wipe
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
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93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

RESULTS DUE:

5 DAYS

AM + PM

CHAIN OF CUSTODY DATA:

Sendung Info

14 samples submitted by DL on 5/4 at 1:34 A

Received by Lab

14 samples received by MB on 5/4 at 0740

Received by Analyst

samples received by

SAMPLE ID	LITERS	Description	Inn/Blacks/Outs
24-101A	2102		
16-101A	2111		
POW - PBR	2121		
POW - 110	2258		
MOLT - 110	2450		
MOLT - 111	2445		
12-107C	1974		
19-108A	2219		
MAC-102	2082		
BERK-108	2185		
ASH - 204	2069		
ROCK - 203	2080		
LAEA - 103	2335		
BLANK	0 LITERS		BLANK
	0 LITERS		BLANK
	0 LITERS		BLANK

INSTRUCTIONS TO LAB (delete items not applicable AND circle items applicable):

1. Pickup request:
Contact _____
Time of Call: _____
2. Call contact to acknowledge receipt of samples.
3. Analyze samples by PCM only.
 - a. Analyze inside samples by PCM first; if any sample >0.01 Fee, contact project manager.
 - b. If all samples are <0.01 Fee, proceed with items 6, 7 or 8, as noted.
6. Analyze inside samples only; stop if Avg >70 stream "2, contact PM before analyzing outside or blanks.
7. Analyze all samples, including outside samples and blanks.
8. Do NOT analyze outside or blank samples.
9. Analyze by TEM only the inside air sample with the highest PCM result.
10. Serial analysis; stop at first positive (>1%); first trace (<0.1%), except threshold and phasor samples.
11. Analyze all bulk samples, unless otherwise indicated.
12. PCB: <0.05mg/kg detection limit required. Authorized to perform cleanup to meet the detection limit.
- 13.

Report Number:

4055266

Invoice Number

Attachment 2

Respirable Dust (PM₁₀) Sampling Results – Embarcadero & Montgomery Street Stations

Location	Level	Sampled Date	DustTrak ID	DustTrak Data ID	Test Length (D:H:M)	Max Level (mg/m3)	Min Level (mg/m3)	Avg Level (mg/m3)	TWA (mg/m3)
Embarcadero North Station Agent's Booth (near Clipper Service Station)	Concourse	4/30/26 - 5/1/26	FA06678	EMB N_002	0:22:51	0.106	0.017	0.061	0.083
Embarcadero South Station Agent's Booth	Concourse	4/30/26 - 5/1/26	FA02743	EMB S_002	0:22:48	0.246	0.011	0.063	0.088
Montgomery Station MMS Room 107	Concourse	4/29/26 - 4/30/26	FA06678	MONT 107_001	0:23:42	0.041	0.011	0.021	0.026
Montgomery South Station Agent's Booth	Concourse	4/29/26 - 4/30/26	FA02743	MONT S_001	0:23:25	0.117	0.011	0.038	0.053

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530253104
Firmware Version	3.1
Calibration Date	7/31/2025
Test Name	EMB N_002
Test Start Time	9:50:23 AM
Test Start Date	4/30/2026
Test Length [D:H:M]	0:22:51
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.061
Mass Minimum [mg/m3]	0.017
Mass Maximum [mg/m3]	0.106
Mass TWA [mg/m3]	0.083
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1371

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.101		
120	0.098		
180	0.096		
240	0.095		
300	0.095		
360	0.094		
420	0.095		
480	0.093		
540	0.098		
600	0.098		
660	0.098		
720	0.097		
780	0.091		
840	0.095		
900	0.098		
960	0.093		
1020	0.093		
1080	0.096		
1140	0.097		
1200	0.1		
1260	0.1		
1320	0.099		
1380	0.098		
1440	0.095		
1500	0.092		
1560	0.092		
1620	0.092		

1680	0.093
1740	0.098
1800	0.1
1860	0.101
1920	0.101
1980	0.101
2040	0.099
2100	0.101
2160	0.097
2220	0.1
2280	0.1
2340	0.101
2400	0.096
2460	0.098
2520	0.096
2580	0.096
2640	0.096
2700	0.094
2760	0.091
2820	0.094
2880	0.092
2940	0.09
3000	0.09
3060	0.095
3120	0.093
3180	0.096
3240	0.093
3300	0.092
3360	0.092
3420	0.09
3480	0.091
3540	0.09
3600	0.09
3660	0.089
3720	0.089
3780	0.088
3840	0.086
3900	0.086
3960	0.084
4020	0.084
4080	0.083
4140	0.084
4200	0.085
4260	0.085
4320	0.084
4380	0.084
4440	0.087

4500	0.087
4560	0.085
4620	0.087
4680	0.089
4740	0.093
4800	0.094
4860	0.093
4920	0.09
4980	0.087
5040	0.087
5100	0.089
5160	0.09
5220	0.092
5280	0.091
5340	0.095
5400	0.098
5460	0.099
5520	0.097
5580	0.097
5640	0.095
5700	0.094
5760	0.092
5820	0.101
5880	0.096
5940	0.093
6000	0.097
6060	0.1
6120	0.096
6180	0.094
6240	0.092
6300	0.091
6360	0.091
6420	0.09
6480	0.089
6540	0.091
6600	0.095
6660	0.094
6720	0.093
6780	0.091
6840	0.092
6900	0.092
6960	0.092
7020	0.093
7080	0.093
7140	0.092
7200	0.094
7260	0.098

7320	0.1
7380	0.102
7440	0.102
7500	0.103
7560	0.099
7620	0.098
7680	0.095
7740	0.096
7800	0.093
7860	0.093
7920	0.089
7980	0.087
8040	0.088
8100	0.09
8160	0.088
8220	0.086
8280	0.086
8340	0.085
8400	0.087
8460	0.086
8520	0.086
8580	0.087
8640	0.088
8700	0.086
8760	0.084
8820	0.084
8880	0.085
8940	0.084
9000	0.085
9060	0.085
9120	0.088
9180	0.088
9240	0.088
9300	0.089
9360	0.087
9420	0.089
9480	0.092
9540	0.09
9600	0.087
9660	0.087
9720	0.085
9780	0.084
9840	0.084
9900	0.081
9960	0.079
10020	0.076
10080	0.079

10140	0.077
10200	0.079
10260	0.08
10320	0.08
10380	0.08
10440	0.081
10500	0.081
10560	0.082
10620	0.082
10680	0.084
10740	0.084
10800	0.084
10860	0.083
10920	0.081
10980	0.082
11040	0.082
11100	0.082
11160	0.082
11220	0.083
11280	0.083
11340	0.082
11400	0.08
11460	0.079
11520	0.08
11580	0.081
11640	0.085
11700	0.085
11760	0.083
11820	0.085
11880	0.085
11940	0.084
12000	0.079
12060	0.076
12120	0.078
12180	0.085
12240	0.084
12300	0.081
12360	0.081
12420	0.079
12480	0.077
12540	0.075
12600	0.078
12660	0.076
12720	0.077
12780	0.076
12840	0.079
12900	0.083

12960	0.084
13020	0.082
13080	0.081
13140	0.079
13200	0.081
13260	0.078
13320	0.077
13380	0.079
13440	0.077
13500	0.078
13560	0.082
13620	0.078
13680	0.072
13740	0.069
13800	0.073
13860	0.077
13920	0.08
13980	0.081
14040	0.075
14100	0.069
14160	0.067
14220	0.069
14280	0.077
14340	0.081
14400	0.084
14460	0.082
14520	0.081
14580	0.082
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14760	0.082
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15000	0.073
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15180	0.088
15240	0.085
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15540	0.08
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15720	0.075

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15900	0.078
15960	0.081
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16080	0.074
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16200	0.074
16260	0.076
16320	0.075
16380	0.077
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16680	0.085
16740	0.083
16800	0.085
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16980	0.085
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17580	0.084
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18540	0.064

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19200	0.076
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19560	0.074
19620	0.075
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21360	0.08

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21660	0.075
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21780	0.077
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23580	0.076
23640	0.075
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25260	0.075
25320	0.076
25380	0.078
25440	0.075
25500	0.074
25560	0.074
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25680	0.074
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25800	0.077
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26220	0.092
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26580	0.08
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26880	0.072
26940	0.073
27000	0.073

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28020	0.065
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29520	0.073
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30060	0.08
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30180	0.08
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31860	0.081
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32280	0.096
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32580	0.083
32640	0.091

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36060	0.043
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75480	0.072
75540	0.068
75600	0.073
75660	0.072
75720	0.072
75780	0.073
75840	0.059
75900	0.055
75960	0.052
76020	0.052
76080	0.055
76140	0.058
76200	0.062
76260	0.067
76320	0.07
76380	0.072
76440	0.072
76500	0.085
76560	0.088
76620	0.079
76680	0.085
76740	0.081
76800	0.075
76860	0.08
76920	0.09
76980	0.086
77040	0.082
77100	0.077
77160	0.074
77220	0.076
77280	0.068
77340	0.07
77400	0.077
77460	0.079
77520	0.08
77580	0.083
77640	0.084
77700	0.091
77760	0.089

77820	0.081
77880	0.081
77940	0.082
78000	0.087
78060	0.085
78120	0.085
78180	0.076
78240	0.073
78300	0.08
78360	0.082
78420	0.08
78480	0.08
78540	0.073
78600	0.069
78660	0.065
78720	0.064
78780	0.072
78840	0.071
78900	0.077
78960	0.083
79020	0.08
79080	0.075
79140	0.077
79200	0.082
79260	0.083
79320	0.084
79380	0.078
79440	0.075
79500	0.07
79560	0.067
79620	0.072
79680	0.076
79740	0.085
79800	0.086
79860	0.091
79920	0.09
79980	0.09
80040	0.09
80100	0.09
80160	0.09
80220	0.095
80280	0.095
80340	0.093
80400	0.092
80460	0.094
80520	0.094
80580	0.095

80640	0.095
80700	0.093
80760	0.094
80820	0.09
80880	0.09
80940	0.089
81000	0.094
81060	0.098
81120	0.098
81180	0.093
81240	0.094
81300	0.105
81360	0.106
81420	0.105
81480	0.096
81540	0.09
81600	0.091
81660	0.095
81720	0.096
81780	0.097
81840	0.096
81900	0.094
81960	0.093
82020	0.094
82080	0.092
82140	0.09
82200	0.091
82260	0.095

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162308
Firmware Version	3.1
Calibration Date	11/20/2025
Test Name	EMB S_002
Test Start Time	9:02:52 AM
Test Start Date	4/30/2026
Test Length [D:H:M]	0:22:48
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.063
Mass Minimum [mg/m3]	0.011
Mass Maximum [mg/m3]	0.246
Mass TWA [mg/m3]	0.088
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1368

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.109		
120	0.113		
180	0.114		
240	0.114		
300	0.111		
360	0.115		
420	0.117		
480	0.115		
540	0.113		
600	0.112		
660	0.109		
720	0.106		
780	0.106		
840	0.107		
900	0.103		
960	0.103		
1020	0.1		
1080	0.1		
1140	0.099		
1200	0.097		
1260	0.097		
1320	0.097		
1380	0.098		
1440	0.098		
1500	0.1		
1560	0.102		
1620	0.099		

1680	0.1
1740	0.099
1800	0.1
1860	0.103
1920	0.105
1980	0.1
2040	0.104
2100	0.106
2160	0.108
2220	0.1
2280	0.101
2340	0.105
2400	0.109
2460	0.107
2520	0.104
2580	0.105
2640	0.105
2700	0.104
2760	0.102
2820	0.097
2880	0.093
2940	0.094
3000	0.102
3060	0.102
3120	0.102
3180	0.096
3240	0.094
3300	0.094
3360	0.096
3420	0.099
3480	0.1
3540	0.104
3600	0.103
3660	0.101
3720	0.1
3780	0.098
3840	0.097
3900	0.094
3960	0.094
4020	0.099
4080	0.097
4140	0.098
4200	0.097
4260	0.1
4320	0.1
4380	0.094
4440	0.086

4500	0.082
4560	0.088
4620	0.093
4680	0.095
4740	0.099
4800	0.099
4860	0.099
4920	0.097
4980	0.095
5040	0.091
5100	0.101
5160	0.098
5220	0.096
5280	0.097
5340	0.101
5400	0.103
5460	0.103
5520	0.1
5580	0.091
5640	0.084
5700	0.086
5760	0.088
5820	0.091
5880	0.098
5940	0.1
6000	0.1
6060	0.101
6120	0.103
6180	0.103
6240	0.101
6300	0.099
6360	0.097
6420	0.099
6480	0.1
6540	0.101
6600	0.105
6660	0.104
6720	0.103
6780	0.102
6840	0.102
6900	0.101
6960	0.1
7020	0.099
7080	0.101
7140	0.099
7200	0.101
7260	0.101

7320	0.1
7380	0.1
7440	0.1
7500	0.099
7560	0.095
7620	0.1
7680	0.098
7740	0.1
7800	0.1
7860	0.101
7920	0.1
7980	0.095
8040	0.091
8100	0.091
8160	0.089
8220	0.09
8280	0.095
8340	0.098
8400	0.099
8460	0.1
8520	0.097
8580	0.094
8640	0.092
8700	0.092
8760	0.097
8820	0.096
8880	0.09
8940	0.09
9000	0.091
9060	0.094
9120	0.089
9180	0.101
9240	0.143
9300	0.164
9360	0.246
9420	0.145
9480	0.112
9540	0.107
9600	0.103
9660	0.095
9720	0.091
9780	0.087
9840	0.086
9900	0.087
9960	0.09
10020	0.092
10080	0.091

10140	0.089
10200	0.09
10260	0.09
10320	0.088
10380	0.085
10440	0.083
10500	0.083
10560	0.081
10620	0.081
10680	0.089
10740	0.096
10800	0.094
10860	0.093
10920	0.094
10980	0.093
11040	0.091
11100	0.094
11160	0.097
11220	0.101
11280	0.096
11340	0.087
11400	0.084
11460	0.08
11520	0.081
11580	0.081
11640	0.084
11700	0.085
11760	0.086
11820	0.088
11880	0.088
11940	0.09
12000	0.093
12060	0.097
12120	0.103
12180	0.104
12240	0.105
12300	0.097
12360	0.096
12420	0.094
12480	0.092
12540	0.091
12600	0.093
12660	0.092
12720	0.093
12780	0.093
12840	0.09
12900	0.089

12960	0.087
13020	0.09
13080	0.091
13140	0.094
13200	0.095
13260	0.095
13320	0.094
13380	0.088
13440	0.087
13500	0.086
13560	0.083
13620	0.089
13680	0.092
13740	0.092
13800	0.099
13860	0.102
13920	0.1
13980	0.099
14040	0.096
14100	0.096
14160	0.087
14220	0.076
14280	0.069
14340	0.073
14400	0.076
14460	0.083
14520	0.086
14580	0.09
14640	0.087
14700	0.087
14760	0.083
14820	0.084
14880	0.083
14940	0.082
15000	0.081
15060	0.075
15120	0.071
15180	0.069
15240	0.075
15300	0.08
15360	0.081
15420	0.084
15480	0.092
15540	0.091
15600	0.095
15660	0.09
15720	0.083

15780	0.083
15840	0.079
15900	0.08
15960	0.087
16020	0.091
16080	0.093
16140	0.091
16200	0.094
16260	0.096
16320	0.093
16380	0.09
16440	0.09
16500	0.089
16560	0.087
16620	0.089
16680	0.088
16740	0.088
16800	0.086
16860	0.084
16920	0.082
16980	0.083
17040	0.081
17100	0.083
17160	0.085
17220	0.087
17280	0.083
17340	0.082
17400	0.084
17460	0.092
17520	0.09
17580	0.086
17640	0.083
17700	0.087
17760	0.09
17820	0.09
17880	0.09
17940	0.091
18000	0.088
18060	0.086
18120	0.087
18180	0.082
18240	0.078
18300	0.077
18360	0.08
18420	0.08
18480	0.078
18540	0.079

18600	0.087
18660	0.088
18720	0.086
18780	0.084
18840	0.086
18900	0.087
18960	0.081
19020	0.078
19080	0.078
19140	0.079
19200	0.076
19260	0.076
19320	0.078
19380	0.075
19440	0.073
19500	0.079
19560	0.077
19620	0.075
19680	0.076
19740	0.079
19800	0.081
19860	0.081
19920	0.075
19980	0.071
20040	0.065
20100	0.062
20160	0.058
20220	0.057
20280	0.063
20340	0.065
20400	0.068
20460	0.073
20520	0.075
20580	0.08
20640	0.079
20700	0.08
20760	0.085
20820	0.082
20880	0.081
20940	0.081
21000	0.087
21060	0.086
21120	0.086
21180	0.082
21240	0.078
21300	0.072
21360	0.069

21420	0.071
21480	0.073
21540	0.073
21600	0.075
21660	0.078
21720	0.077
21780	0.077
21840	0.078
21900	0.082
21960	0.084
22020	0.079
22080	0.079
22140	0.083
22200	0.087
22260	0.085
22320	0.082
22380	0.072
22440	0.067
22500	0.062
22560	0.06
22620	0.057
22680	0.057
22740	0.062
22800	0.07
22860	0.068
22920	0.07
22980	0.072
23040	0.071
23100	0.078
23160	0.086
23220	0.087
23280	0.087
23340	0.092
23400	0.097
23460	0.096
23520	0.094
23580	0.086
23640	0.083
23700	0.076
23760	0.075
23820	0.075
23880	0.076
23940	0.081
24000	0.081
24060	0.089
24120	0.091
24180	0.088

24240	0.082
24300	0.082
24360	0.087
24420	0.087
24480	0.086
24540	0.086
24600	0.086
24660	0.084
24720	0.082
24780	0.076
24840	0.075
24900	0.071
24960	0.07
25020	0.071
25080	0.075
25140	0.075
25200	0.073
25260	0.076
25320	0.074
25380	0.072
25440	0.072
25500	0.072
25560	0.077
25620	0.074
25680	0.074
25740	0.074
25800	0.076
25860	0.078
25920	0.074
25980	0.071
26040	0.073
26100	0.073
26160	0.071
26220	0.071
26280	0.076
26340	0.08
26400	0.079
26460	0.075
26520	0.075
26580	0.073
26640	0.069
26700	0.069
26760	0.07
26820	0.072
26880	0.072
26940	0.075
27000	0.076

27060	0.072
27120	0.067
27180	0.061
27240	0.057
27300	0.055
27360	0.053
27420	0.055
27480	0.06
27540	0.057
27600	0.058
27660	0.059
27720	0.062
27780	0.065
27840	0.064
27900	0.062
27960	0.062
28020	0.067
28080	0.069
28140	0.067
28200	0.071
28260	0.073
28320	0.072
28380	0.069
28440	0.067
28500	0.067
28560	0.074
28620	0.083
28680	0.082
28740	0.087
28800	0.08
28860	0.072
28920	0.071
28980	0.068
29040	0.068
29100	0.069
29160	0.077
29220	0.074
29280	0.077
29340	0.082
29400	0.089
29460	0.087
29520	0.085
29580	0.081
29640	0.078
29700	0.074
29760	0.07
29820	0.068

29880	0.07
29940	0.075
30000	0.075
30060	0.074
30120	0.073
30180	0.072
30240	0.07
30300	0.068
30360	0.071
30420	0.069
30480	0.068
30540	0.065
30600	0.066
30660	0.065
30720	0.065
30780	0.067
30840	0.069
30900	0.065
30960	0.062
31020	0.068
31080	0.082
31140	0.092
31200	0.094
31260	0.096
31320	0.093
31380	0.093
31440	0.088
31500	0.085
31560	0.082
31620	0.085
31680	0.082
31740	0.087
31800	0.088
31860	0.093
31920	0.087
31980	0.083
32040	0.082
32100	0.078
32160	0.075
32220	0.076
32280	0.08
32340	0.078
32400	0.078
32460	0.074
32520	0.073
32580	0.064
32640	0.061

32700	0.061
32760	0.059
32820	0.057
32880	0.057
32940	0.058
33000	0.056
33060	0.055
33120	0.055
33180	0.054
33240	0.056
33300	0.057
33360	0.057
33420	0.057
33480	0.059
33540	0.058
33600	0.06
33660	0.061
33720	0.059
33780	0.059
33840	0.057
33900	0.058
33960	0.057
34020	0.057
34080	0.056
34140	0.056
34200	0.061
34260	0.064
34320	0.072
34380	0.064
34440	0.066
34500	0.068
34560	0.065
34620	0.063
34680	0.066
34740	0.071
34800	0.07
34860	0.069
34920	0.064
34980	0.058
35040	0.056
35100	0.063
35160	0.071
35220	0.066
35280	0.063
35340	0.064
35400	0.068
35460	0.068

35520	0.069
35580	0.057
35640	0.047
35700	0.043
35760	0.046
35820	0.05
35880	0.058
35940	0.064
36000	0.063
36060	0.062
36120	0.063
36180	0.061
36240	0.058
36300	0.057
36360	0.057
36420	0.056
36480	0.057
36540	0.056
36600	0.056
36660	0.056
36720	0.056
36780	0.054
36840	0.055
36900	0.053
36960	0.052
37020	0.051
37080	0.051
37140	0.05
37200	0.048
37260	0.046
37320	0.051
37380	0.057
37440	0.054
37500	0.054
37560	0.062
37620	0.059
37680	0.054
37740	0.057
37800	0.059
37860	0.058
37920	0.056
37980	0.053
38040	0.053
38100	0.055
38160	0.051
38220	0.048
38280	0.049

38340	0.047
38400	0.047
38460	0.045
38520	0.043
38580	0.042
38640	0.041
38700	0.039
38760	0.038
38820	0.038
38880	0.037
38940	0.036
39000	0.036
39060	0.036
39120	0.035
39180	0.034
39240	0.034
39300	0.034
39360	0.032
39420	0.031
39480	0.032
39540	0.031
39600	0.029
39660	0.029
39720	0.029
39780	0.027
39840	0.028
39900	0.028
39960	0.029
40020	0.03
40080	0.03
40140	0.036
40200	0.045
40260	0.051
40320	0.051
40380	0.06
40440	0.064
40500	0.066
40560	0.068
40620	0.068
40680	0.068
40740	0.07
40800	0.075
40860	0.074
40920	0.072
40980	0.069
41040	0.069
41100	0.067

41160	0.062
41220	0.05
41280	0.048
41340	0.045
41400	0.049
41460	0.049
41520	0.047
41580	0.044
41640	0.041
41700	0.039
41760	0.038
41820	0.042
41880	0.044
41940	0.045
42000	0.05
42060	0.05
42120	0.047
42180	0.043
42240	0.041
42300	0.039
42360	0.037
42420	0.035
42480	0.033
42540	0.035
42600	0.037
42660	0.036
42720	0.033
42780	0.033
42840	0.031
42900	0.03
42960	0.029
43020	0.031
43080	0.031
43140	0.03
43200	0.03
43260	0.03
43320	0.029
43380	0.029
43440	0.028
43500	0.027
43560	0.026
43620	0.025
43680	0.025
43740	0.024
43800	0.025
43860	0.025
43920	0.026

43980	0.025
44040	0.025
44100	0.025
44160	0.025
44220	0.024
44280	0.023
44340	0.024
44400	0.026
44460	0.028
44520	0.027
44580	0.026
44640	0.025
44700	0.027
44760	0.027
44820	0.026
44880	0.025
44940	0.025
45000	0.025
45060	0.026
45120	0.026
45180	0.027
45240	0.026
45300	0.025
45360	0.024
45420	0.024
45480	0.024
45540	0.026
45600	0.034
45660	0.041
45720	0.044
45780	0.045
45840	0.043
45900	0.041
45960	0.037
46020	0.035
46080	0.034
46140	0.033
46200	0.034
46260	0.037
46320	0.04
46380	0.041
46440	0.044
46500	0.048
46560	0.05
46620	0.05
46680	0.049
46740	0.05

46800	0.055
46860	0.069
46920	0.066
46980	0.062
47040	0.062
47100	0.061
47160	0.059
47220	0.059
47280	0.057
47340	0.057
47400	0.059
47460	0.058
47520	0.058
47580	0.055
47640	0.055
47700	0.054
47760	0.053
47820	0.053
47880	0.052
47940	0.05
48000	0.049
48060	0.048
48120	0.047
48180	0.048
48240	0.047
48300	0.047
48360	0.047
48420	0.046
48480	0.046
48540	0.046
48600	0.045
48660	0.044
48720	0.044
48780	0.043
48840	0.042
48900	0.043
48960	0.043
49020	0.045
49080	0.045
49140	0.044
49200	0.045
49260	0.043
49320	0.043
49380	0.043
49440	0.042
49500	0.043
49560	0.042

49620	0.042
49680	0.042
49740	0.042
49800	0.042
49860	0.041
49920	0.042
49980	0.041
50040	0.042
50100	0.042
50160	0.041
50220	0.042
50280	0.045
50340	0.045
50400	0.046
50460	0.046
50520	0.047
50580	0.048
50640	0.046
50700	0.046
50760	0.046
50820	0.046
50880	0.046
50940	0.046
51000	0.045
51060	0.045
51120	0.045
51180	0.043
51240	0.044
51300	0.043
51360	0.043
51420	0.044
51480	0.044
51540	0.044
51600	0.045
51660	0.045
51720	0.044
51780	0.045
51840	0.045
51900	0.045
51960	0.044
52020	0.045
52080	0.044
52140	0.044
52200	0.044
52260	0.045
52320	0.045
52380	0.045

52440	0.044
52500	0.045
52560	0.044
52620	0.045
52680	0.044
52740	0.044
52800	0.044
52860	0.045
52920	0.043
52980	0.044
53040	0.044
53100	0.044
53160	0.044
53220	0.043
53280	0.043
53340	0.043
53400	0.043
53460	0.042
53520	0.042
53580	0.043
53640	0.042
53700	0.041
53760	0.043
53820	0.04
53880	0.043
53940	0.051
54000	0.059
54060	0.063
54120	0.065
54180	0.066
54240	0.066
54300	0.063
54360	0.062
54420	0.061
54480	0.057
54540	0.057
54600	0.058
54660	0.058
54720	0.057
54780	0.058
54840	0.056
54900	0.054
54960	0.053
55020	0.053
55080	0.051
55140	0.05
55200	0.049

55260	0.049
55320	0.048
55380	0.048
55440	0.05
55500	0.049
55560	0.046
55620	0.044
55680	0.045
55740	0.048
55800	0.053
55860	0.055
55920	0.058
55980	0.058
56040	0.051
56100	0.045
56160	0.04
56220	0.038
56280	0.041
56340	0.048
56400	0.062
56460	0.067
56520	0.064
56580	0.063
56640	0.061
56700	0.06
56760	0.061
56820	0.063
56880	0.063
56940	0.061
57000	0.061
57060	0.059
57120	0.058
57180	0.057
57240	0.055
57300	0.053
57360	0.053
57420	0.052
57480	0.05
57540	0.047
57600	0.045
57660	0.045
57720	0.044
57780	0.043
57840	0.044
57900	0.045
57960	0.046
58020	0.045

58080	0.042
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58200	0.041
58260	0.042
58320	0.044
58380	0.046
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58500	0.051
58560	0.048
58620	0.05
58680	0.051
58740	0.048
58800	0.044
58860	0.043
58920	0.042
58980	0.041
59040	0.038
59100	0.037
59160	0.036
59220	0.034
59280	0.033
59340	0.032
59400	0.031
59460	0.031
59520	0.03
59580	0.029
59640	0.03
59700	0.029
59760	0.029
59820	0.028
59880	0.027
59940	0.027
60000	0.026
60060	0.026
60120	0.026
60180	0.029
60240	0.032
60300	0.032
60360	0.034
60420	0.036
60480	0.033
60540	0.031
60600	0.029
60660	0.029
60720	0.027
60780	0.026
60840	0.025

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61320	0.021
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61440	0.021
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61560	0.02
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61980	0.018
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62220	0.018
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62520	0.017
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63240	0.015
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63360	0.014
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63540	0.014
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63660	0.014

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63780	0.013
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64080	0.013
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65340	0.012
65400	0.012
65460	0.012
65520	0.012
65580	0.012
65640	0.012
65700	0.012
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65880	0.012
65940	0.012
66000	0.012
66060	0.012
66120	0.012
66180	0.012
66240	0.012
66300	0.011
66360	0.011
66420	0.011
66480	0.012

66540	0.012
66600	0.012
66660	0.012
66720	0.012
66780	0.016
66840	0.016
66900	0.019
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67080	0.02
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67260	0.022
67320	0.022
67380	0.022
67440	0.022
67500	0.024
67560	0.024
67620	0.023
67680	0.022
67740	0.023
67800	0.024
67860	0.022
67920	0.021
67980	0.021
68040	0.021
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68160	0.022
68220	0.022
68280	0.022
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68460	0.021
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68760	0.021
68820	0.021
68880	0.021
68940	0.02
69000	0.021
69060	0.021
69120	0.022
69180	0.021
69240	0.02
69300	0.019

69360	0.019
69420	0.02
69480	0.02
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69780	0.02
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69900	0.02
69960	0.02
70020	0.02
70080	0.021
70140	0.021
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70260	0.02
70320	0.02
70380	0.02
70440	0.02
70500	0.02
70560	0.021
70620	0.021
70680	0.02
70740	0.021
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71160	0.02
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71280	0.019
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71460	0.019
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71700	0.019
71760	0.02
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71880	0.02
71940	0.02
72000	0.02
72060	0.02
72120	0.019

72180	0.019
72240	0.019
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72360	0.021
72420	0.021
72480	0.021
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72600	0.021
72660	0.022
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72780	0.022
72840	0.022
72900	0.022
72960	0.026
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73080	0.031
73140	0.032
73200	0.032
73260	0.03
73320	0.029
73380	0.029
73440	0.028
73500	0.03
73560	0.032
73620	0.033
73680	0.031
73740	0.037
73800	0.042
73860	0.044
73920	0.044
73980	0.044
74040	0.044
74100	0.047
74160	0.052
74220	0.052
74280	0.059
74340	0.072
74400	0.073
74460	0.081
74520	0.082
74580	0.086
74640	0.086
74700	0.091
74760	0.091
74820	0.091
74880	0.087
74940	0.089

75000	0.093
75060	0.092
75120	0.085
75180	0.076
75240	0.066
75300	0.054
75360	0.052
75420	0.059
75480	0.063
75540	0.072
75600	0.079
75660	0.086
75720	0.09
75780	0.091
75840	0.089
75900	0.094
75960	0.102
76020	0.098
76080	0.09
76140	0.086
76200	0.086
76260	0.096
76320	0.102
76380	0.101
76440	0.099
76500	0.101
76560	0.096
76620	0.096
76680	0.097
76740	0.1
76800	0.1
76860	0.103
76920	0.105
76980	0.107
77040	0.109
77100	0.115
77160	0.114
77220	0.107
77280	0.107
77340	0.11
77400	0.115
77460	0.115
77520	0.117
77580	0.119
77640	0.117
77700	0.12
77760	0.117

77820	0.113
77880	0.112
77940	0.108
78000	0.107
78060	0.107
78120	0.107
78180	0.106
78240	0.108
78300	0.114
78360	0.115
78420	0.116
78480	0.115
78540	0.115
78600	0.12
78660	0.118
78720	0.12
78780	0.113
78840	0.109
78900	0.107
78960	0.107
79020	0.109
79080	0.108
79140	0.107
79200	0.111
79260	0.114
79320	0.116
79380	0.117
79440	0.116
79500	0.113
79560	0.113
79620	0.11
79680	0.112
79740	0.116
79800	0.122
79860	0.117
79920	0.118
79980	0.115
80040	0.111
80100	0.108
80160	0.105
80220	0.101
80280	0.108
80340	0.108
80400	0.114
80460	0.112
80520	0.111
80580	0.112

80640	0.11
80700	0.112
80760	0.113
80820	0.111
80880	0.112
80940	0.111
81000	0.113
81060	0.112
81120	0.11
81180	0.108
81240	0.105
81300	0.102
81360	0.098
81420	0.095
81480	0.095
81540	0.099
81600	0.104
81660	0.106
81720	0.102
81780	0.101
81840	0.101
81900	0.1
81960	0.105
82020	0.107
82080	0.106

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530253104
Firmware Version	3.1
Calibration Date	7/31/2025
Test Name	MONT 107_001
Test Start Time	9:49:30 AM
Test Start Date	4/29/2026
Test Length [D:H:M]	0:23:42
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.021
Mass Minimum [mg/m3]	0.011
Mass Maximum [mg/m3]	0.041
Mass TWA [mg/m3]	0.026
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1422

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.031		
120	0.034		
180	0.035		
240	0.037		
300	0.033		
360	0.036		
420	0.033		
480	0.034		
540	0.033		
600	0.034		
660	0.033		
720	0.035		
780	0.034		
840	0.033		
900	0.033		
960	0.033		
1020	0.034		
1080	0.032		
1140	0.034		
1200	0.034		
1260	0.033		
1320	0.035		
1380	0.033		
1440	0.034		
1500	0.034		
1560	0.032		
1620	0.033		

1680	0.033
1740	0.032
1800	0.032
1860	0.033
1920	0.033
1980	0.033
2040	0.034
2100	0.032
2160	0.034
2220	0.032
2280	0.034
2340	0.033
2400	0.035
2460	0.034
2520	0.031
2580	0.036
2640	0.034
2700	0.035
2760	0.034
2820	0.034
2880	0.034
2940	0.033
3000	0.033
3060	0.034
3120	0.034
3180	0.033
3240	0.033
3300	0.033
3360	0.034
3420	0.035
3480	0.036
3540	0.035
3600	0.034
3660	0.035
3720	0.035
3780	0.036
3840	0.034
3900	0.036
3960	0.035
4020	0.034
4080	0.035
4140	0.035
4200	0.036
4260	0.035
4320	0.034
4380	0.036
4440	0.033

4500	0.035
4560	0.034
4620	0.036
4680	0.034
4740	0.037
4800	0.034
4860	0.034
4920	0.034
4980	0.035
5040	0.035
5100	0.036
5160	0.034
5220	0.034
5280	0.038
5340	0.037
5400	0.038
5460	0.036
5520	0.035
5580	0.034
5640	0.035
5700	0.035
5760	0.037
5820	0.035
5880	0.036
5940	0.039
6000	0.037
6060	0.037
6120	0.038
6180	0.037
6240	0.039
6300	0.038
6360	0.037
6420	0.038
6480	0.039
6540	0.038
6600	0.04
6660	0.038
6720	0.038
6780	0.038
6840	0.038
6900	0.04
6960	0.039
7020	0.038
7080	0.038
7140	0.038
7200	0.036
7260	0.04

7320	0.04
7380	0.041
7440	0.037
7500	0.038
7560	0.039
7620	0.041
7680	0.04
7740	0.039
7800	0.039
7860	0.039
7920	0.04
7980	0.039
8040	0.04
8100	0.038
8160	0.038
8220	0.039
8280	0.038
8340	0.039
8400	0.038
8460	0.038
8520	0.04
8580	0.037
8640	0.037
8700	0.036
8760	0.038
8820	0.037
8880	0.037
8940	0.037
9000	0.038
9060	0.038
9120	0.037
9180	0.037
9240	0.036
9300	0.036
9360	0.036
9420	0.036
9480	0.035
9540	0.035
9600	0.035
9660	0.035
9720	0.035
9780	0.035
9840	0.034
9900	0.034
9960	0.034
10020	0.034
10080	0.033

10140	0.033
10200	0.035
10260	0.033
10320	0.033
10380	0.033
10440	0.034
10500	0.034
10560	0.034
10620	0.032
10680	0.033
10740	0.031
10800	0.032
10860	0.033
10920	0.031
10980	0.03
11040	0.031
11100	0.031
11160	0.032
11220	0.032
11280	0.032
11340	0.031
11400	0.031
11460	0.03
11520	0.031
11580	0.031
11640	0.03
11700	0.03
11760	0.029
11820	0.029
11880	0.029
11940	0.029
12000	0.029
12060	0.031
12120	0.03
12180	0.03
12240	0.031
12300	0.029
12360	0.028
12420	0.03
12480	0.028
12540	0.029
12600	0.029
12660	0.03
12720	0.029
12780	0.03
12840	0.03
12900	0.029

12960	0.029
13020	0.028
13080	0.027
13140	0.028
13200	0.028
13260	0.028
13320	0.027
13380	0.027
13440	0.028
13500	0.027
13560	0.027
13620	0.026
13680	0.027
13740	0.026
13800	0.026
13860	0.026
13920	0.025
13980	0.026
14040	0.025
14100	0.025
14160	0.025
14220	0.026
14280	0.025
14340	0.024
14400	0.025
14460	0.025
14520	0.025
14580	0.024
14640	0.024
14700	0.023
14760	0.024
14820	0.024
14880	0.023
14940	0.023
15000	0.023
15060	0.024
15120	0.023
15180	0.024
15240	0.024
15300	0.024
15360	0.024
15420	0.023
15480	0.023
15540	0.023
15600	0.023
15660	0.022
15720	0.022

15780	0.023
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16080	0.023
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16260	0.022
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16380	0.022
16440	0.022
16500	0.022
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16620	0.023
16680	0.022
16740	0.021
16800	0.021
16860	0.021
16920	0.021
16980	0.021
17040	0.021
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17160	0.022
17220	0.021
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17340	0.02
17400	0.021
17460	0.02
17520	0.02
17580	0.021
17640	0.02
17700	0.02
17760	0.02
17820	0.02
17880	0.02
17940	0.02
18000	0.019
18060	0.019
18120	0.019
18180	0.019
18240	0.019
18300	0.02
18360	0.019
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18480	0.019
18540	0.019

18600	0.018
18660	0.018
18720	0.018
18780	0.019
18840	0.018
18900	0.019
18960	0.018
19020	0.019
19080	0.018
19140	0.018
19200	0.018
19260	0.021
19320	0.019
19380	0.018
19440	0.018
19500	0.018
19560	0.018
19620	0.02
19680	0.018
19740	0.019
19800	0.02
19860	0.02
19920	0.02
19980	0.018
20040	0.021
20100	0.02
20160	0.019
20220	0.018
20280	0.019
20340	0.018
20400	0.019
20460	0.019
20520	0.019
20580	0.019
20640	0.018
20700	0.019
20760	0.018
20820	0.019
20880	0.019
20940	0.018
21000	0.018
21060	0.018
21120	0.018
21180	0.018
21240	0.018
21300	0.017
21360	0.018

21420	0.018
21480	0.019
21540	0.018
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22020	0.017
22080	0.017
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22320	0.018
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22440	0.019
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23280	0.017
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26400	0.019
26460	0.017
26520	0.018
26580	0.017
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29520	0.017
29580	0.017
29640	0.018
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29820	0.017

29880	0.018
29940	0.018
30000	0.018
30060	0.018
30120	0.018
30180	0.018
30240	0.017
30300	0.018
30360	0.017
30420	0.018
30480	0.017
30540	0.018
30600	0.017
30660	0.018
30720	0.017
30780	0.018
30840	0.018
30900	0.016
30960	0.017
31020	0.017
31080	0.017
31140	0.018
31200	0.018
31260	0.018
31320	0.018
31380	0.017
31440	0.017
31500	0.019
31560	0.018
31620	0.019
31680	0.017
31740	0.018
31800	0.018
31860	0.018
31920	0.018
31980	0.017
32040	0.018
32100	0.017
32160	0.018
32220	0.018
32280	0.018
32340	0.019
32400	0.018
32460	0.019
32520	0.018
32580	0.021
32640	0.021

32700	0.02
32760	0.019
32820	0.021
32880	0.02
32940	0.02
33000	0.021
33060	0.02
33120	0.019
33180	0.021
33240	0.021
33300	0.021
33360	0.02
33420	0.021
33480	0.021
33540	0.02
33600	0.021
33660	0.022
33720	0.02
33780	0.019
33840	0.02
33900	0.021
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34020	0.021
34080	0.02
34140	0.021
34200	0.021
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34380	0.022
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34680	0.022
34740	0.021
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34860	0.022
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34980	0.024
35040	0.023
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35160	0.023
35220	0.022
35280	0.02
35340	0.022
35400	0.021
35460	0.023

35520	0.023
35580	0.024
35640	0.025
35700	0.026
35760	0.025
35820	0.025
35880	0.024
35940	0.024
36000	0.023
36060	0.026
36120	0.025
36180	0.025
36240	0.027
36300	0.026
36360	0.027
36420	0.026
36480	0.026
36540	0.025
36600	0.026
36660	0.026
36720	0.028
36780	0.029
36840	0.028
36900	0.03
36960	0.027
37020	0.029
37080	0.028
37140	0.027
37200	0.027
37260	0.027
37320	0.027
37380	0.027
37440	0.028
37500	0.028
37560	0.028
37620	0.027
37680	0.028
37740	0.026
37800	0.027
37860	0.026
37920	0.027
37980	0.026
38040	0.026
38100	0.029
38160	0.03
38220	0.03
38280	0.029

38340	0.029
38400	0.027
38460	0.031
38520	0.029
38580	0.03
38640	0.028
38700	0.03
38760	0.028
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38880	0.027
38940	0.028
39000	0.029
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39120	0.03
39180	0.028
39240	0.029
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39360	0.028
39420	0.031
39480	0.03
39540	0.031
39600	0.031
39660	0.031
39720	0.029
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39840	0.03
39900	0.031
39960	0.031
40020	0.031
40080	0.03
40140	0.032
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40560	0.03
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41340	0.031
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41460	0.032
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42060	0.03
42120	0.029
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42240	0.03
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42360	0.032
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42660	0.028
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45600	0.018
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45720	0.018
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45840	0.018
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46080	0.021
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46620	0.018
46680	0.019
46740	0.019

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46920	0.02
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47220	0.02
47280	0.021
47340	0.021
47400	0.021
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47520	0.02
47580	0.02
47640	0.02
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47940	0.021
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50160	0.019
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50280	0.019
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50400	0.019
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50520	0.018
50580	0.019
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51060	0.018
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69960	0.013
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72060	0.011
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72660	0.012
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73920	0.013
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74460	0.013
74520	0.013
74580	0.013
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75060	0.013
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75300	0.013
75360	0.014
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75480	0.013
75540	0.013
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76080	0.013
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76320	0.014
76380	0.014
76440	0.015
76500	0.016
76560	0.015
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76800	0.016
76860	0.015
76920	0.015
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77400	0.018
77460	0.017
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77580	0.017
77640	0.016
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77760	0.017

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78180	0.016
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82560	0.024
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82740	0.025
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84540	0.024
84600	0.024
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84720	0.024
84780	0.024
84840	0.022
84900	0.025
84960	0.023
85020	0.023
85080	0.026
85140	0.024
85200	0.026
85260	0.024
85320	0.024

Instrument Name	DustTrak II
Model Number	8530
Serial Number	8530162308
Firmware Version	3.1
Calibration Date	11/20/2025
Test Name	MONT S_001
Test Start Time	8:18:41 AM
Test Start Date	4/29/2026
Test Length [D:H:M]	0:23:25
Test Interval [M:S]	1:00
Mass Average [mg/m3]	0.038
Mass Minimum [mg/m3]	0.011
Mass Maximum [mg/m3]	0.117
Mass TWA [mg/m3]	0.053
Photometric User Cal	1
Flow User Cal	0
Errors	
Number of Samples	1405

Elapsed Time [s]	Mass [mg/m3]	Alarms	Errors
60	0.088		
120	0.09		
180	0.09		
240	0.089		
300	0.09		
360	0.085		
420	0.084		
480	0.085		
540	0.083		
600	0.08		
660	0.08		
720	0.079		
780	0.075		
840	0.083		
900	0.087		
960	0.082		
1020	0.075		
1080	0.076		
1140	0.072		
1200	0.07		
1260	0.085		
1320	0.083		
1380	0.082		
1440	0.085		
1500	0.089		
1560	0.09		
1620	0.09		

1680	0.085
1740	0.079
1800	0.081
1860	0.084
1920	0.085
1980	0.079
2040	0.078
2100	0.078
2160	0.077
2220	0.072
2280	0.066
2340	0.071
2400	0.082
2460	0.091
2520	0.092
2580	0.089
2640	0.089
2700	0.092
2760	0.09
2820	0.086
2880	0.085
2940	0.081
3000	0.077
3060	0.08
3120	0.082
3180	0.089
3240	0.087
3300	0.085
3360	0.092
3420	0.094
3480	0.093
3540	0.099
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3660	0.102
3720	0.102
3780	0.099
3840	0.102
3900	0.101
3960	0.101
4020	0.101
4080	0.101
4140	0.098
4200	0.097
4260	0.099
4320	0.102
4380	0.104
4440	0.103

4500	0.103
4560	0.102
4620	0.1
4680	0.099
4740	0.097
4800	0.099
4860	0.1
4920	0.097
4980	0.097
5040	0.098
5100	0.098
5160	0.098
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6180	0.104
6240	0.106
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6360	0.108
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6480	0.108
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6780	0.102
6840	0.107
6900	0.107
6960	0.108
7020	0.105
7080	0.096
7140	0.097
7200	0.106
7260	0.109

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7380	0.103
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7500	0.105
7560	0.102
7620	0.1
7680	0.102
7740	0.089
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7860	0.104
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7980	0.106
8040	0.102
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8160	0.099
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8460	0.094
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8760	0.09
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8880	0.088
8940	0.08
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9120	0.098
9180	0.095
9240	0.086
9300	0.083
9360	0.09
9420	0.085
9480	0.081
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9600	0.087
9660	0.081
9720	0.079
9780	0.092
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9900	0.074
9960	0.069
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10080	0.089

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10260	0.082
10320	0.083
10380	0.069
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10620	0.053
10680	0.046
10740	0.049
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10920	0.049
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11580	0.049
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12120	0.033
12180	0.032
12240	0.041
12300	0.048
12360	0.045
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12480	0.038
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12720	0.039
12780	0.036
12840	0.033
12900	0.033

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13200	0.038
13260	0.036
13320	0.031
13380	0.029
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13740	0.029
13800	0.03
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14340	0.034
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15000	0.032
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15240	0.026
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15720	0.021

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15900	0.02
15960	0.02
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16080	0.027
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16260	0.028
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16380	0.027
16440	0.026
16500	0.027
16560	0.027
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16980	0.031
17040	0.032
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21360	0.027

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32640	0.025

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37320	0.019
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37680	0.017
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37920	0.017
37980	0.017
38040	0.017
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38160	0.017
38220	0.018
38280	0.018

38340	0.018
38400	0.018
38460	0.018
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38580	0.019
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64680	0.017
64740	0.016
64800	0.016
64860	0.016
64920	0.016
64980	0.016
65040	0.016
65100	0.016
65160	0.015
65220	0.015
65280	0.015
65340	0.015
65400	0.015
65460	0.015
65520	0.015
65580	0.015
65640	0.014
65700	0.014
65760	0.014
65820	0.014
65880	0.014
65940	0.014
66000	0.014
66060	0.014
66120	0.014
66180	0.014
66240	0.013
66300	0.013
66360	0.013
66420	0.013
66480	0.013

66540	0.013
66600	0.013
66660	0.013
66720	0.013
66780	0.013
66840	0.013
66900	0.013
66960	0.013
67020	0.013
67080	0.013
67140	0.012
67200	0.012
67260	0.012
67320	0.013
67380	0.012
67440	0.012
67500	0.012
67560	0.012
67620	0.012
67680	0.012
67740	0.012
67800	0.012
67860	0.012
67920	0.012
67980	0.012
68040	0.012
68100	0.012
68160	0.012
68220	0.012
68280	0.013
68340	0.012
68400	0.012
68460	0.012
68520	0.012
68580	0.012
68640	0.012
68700	0.012
68760	0.012
68820	0.012
68880	0.013
68940	0.012
69000	0.012
69060	0.012
69120	0.012
69180	0.012
69240	0.012
69300	0.012

69360	0.012
69420	0.012
69480	0.011
69540	0.012
69600	0.012
69660	0.011
69720	0.012
69780	0.012
69840	0.013
69900	0.013
69960	0.013
70020	0.013
70080	0.013
70140	0.013
70200	0.013
70260	0.013
70320	0.021
70380	0.021
70440	0.02
70500	0.019
70560	0.02
70620	0.019
70680	0.019
70740	0.018
70800	0.019
70860	0.018
70920	0.017
70980	0.017
71040	0.016
71100	0.016
71160	0.016
71220	0.016
71280	0.016
71340	0.015
71400	0.015
71460	0.015
71520	0.015
71580	0.014
71640	0.014
71700	0.014
71760	0.014
71820	0.014
71880	0.014
71940	0.014
72000	0.014
72060	0.013
72120	0.013

72180	0.013
72240	0.013
72300	0.012
72360	0.012
72420	0.012
72480	0.012
72540	0.014
72600	0.018
72660	0.026
72720	0.022
72780	0.022
72840	0.021
72900	0.021
72960	0.022
73020	0.021
73080	0.021
73140	0.02
73200	0.02
73260	0.021
73320	0.019
73380	0.019
73440	0.018
73500	0.018
73560	0.018
73620	0.017
73680	0.017
73740	0.017
73800	0.016
73860	0.016
73920	0.016
73980	0.015
74040	0.015
74100	0.015
74160	0.015
74220	0.015
74280	0.015
74340	0.014
74400	0.014
74460	0.014
74520	0.014
74580	0.014
74640	0.014
74700	0.014
74760	0.013
74820	0.013
74880	0.013
74940	0.013

75000	0.014
75060	0.017
75120	0.02
75180	0.019
75240	0.02
75300	0.021
75360	0.021
75420	0.021
75480	0.02
75540	0.02
75600	0.02
75660	0.019
75720	0.018
75780	0.016
75840	0.016
75900	0.016
75960	0.018
76020	0.017
76080	0.017
76140	0.017
76200	0.016
76260	0.018
76320	0.018
76380	0.02
76440	0.02
76500	0.02
76560	0.02
76620	0.02
76680	0.02
76740	0.02
76800	0.024
76860	0.031
76920	0.032
76980	0.03
77040	0.038
77100	0.046
77160	0.047
77220	0.047
77280	0.044
77340	0.038
77400	0.033
77460	0.035
77520	0.04
77580	0.043
77640	0.039
77700	0.035
77760	0.042

77820	0.045
77880	0.037
77940	0.032
78000	0.033
78060	0.035
78120	0.034
78180	0.036
78240	0.046
78300	0.052
78360	0.048
78420	0.051
78480	0.05
78540	0.051
78600	0.057
78660	0.05
78720	0.047
78780	0.044
78840	0.043
78900	0.042
78960	0.043
79020	0.047
79080	0.048
79140	0.055
79200	0.059
79260	0.067
79320	0.059
79380	0.056
79440	0.061
79500	0.074
79560	0.065
79620	0.061
79680	0.059
79740	0.044
79800	0.046
79860	0.072
79920	0.073
79980	0.073
80040	0.069
80100	0.059
80160	0.06
80220	0.063
80280	0.066
80340	0.066
80400	0.074
80460	0.067
80520	0.063
80580	0.062

80640	0.067
80700	0.073
80760	0.073
80820	0.075
80880	0.082
80940	0.068
81000	0.058
81060	0.061
81120	0.068
81180	0.076
81240	0.072
81300	0.07
81360	0.071
81420	0.059
81480	0.05
81540	0.052
81600	0.062
81660	0.06
81720	0.055
81780	0.062
81840	0.074
81900	0.081
81960	0.069
82020	0.066
82080	0.068
82140	0.071
82200	0.074
82260	0.084
82320	0.087
82380	0.08
82440	0.083
82500	0.075
82560	0.078
82620	0.075
82680	0.066
82740	0.064
82800	0.073
82860	0.088
82920	0.079
82980	0.069
83040	0.068
83100	0.073
83160	0.076
83220	0.075
83280	0.077
83340	0.05
83400	0.047

83460	0.07
83520	0.067
83580	0.052
83640	0.047
83700	0.053
83760	0.053
83820	0.043
83880	0.034
83940	0.036
84000	0.04
84060	0.052
84120	0.059
84180	0.059
84240	0.063
84300	0.076

Attachment 3

San Francisco Line Spot Sampling Results for PM₁₀ and PM_{2.5}

					PM10 Concentrations (mg/m3)			PM2.5 Concentrations (mg/m3)		
Station	Location	Dustrak File ID	Date	Time	Max	Avg	Min	Max	Avg	Min
24th St. Mission	Agent Booth	2	4/29/2026	10:44	0.067	0.048	0.040	0.043	0.038	0.034
	Ticket Machines	3	4/29/2026	10:45	0.053	0.041	0.025	0.043	0.034	0.022
	Platform	1	4/29/2026	10:32	0.095	0.087	0.064	0.082	0.072	0.057
16th St. Mission	Agent Booth	5	4/29/2026	10:26	0.108	0.062	0.045	0.079	0.063	0.049
	Ticket Machines	6	4/29/2026	10:27	0.104	0.033	0.013	0.045	0.029	0.013
	Platform	4	4/29/2026	10:28	0.115	0.087	0.075	0.086	0.076	0.068
Civic Center	North Primary Agent Booth	8	4/29/2026	10:15	0.045	0.047	0.044	0.048	0.045	0.043
	North Ticket Machines	9	4/29/2026	10:16	0.040	0.056	0.017	0.099	0.053	0.017
	Platform	7	4/29/2026	10:06	0.069	0.084	0.053	0.113	0.083	0.053
Powell	Police Conf Rm/Squad Rm	12	4/29/2026	9:43	0.035	0.027	0.026	0.030	0.027	0.025
	South Agent Booth	13	4/29/2026	9:57	0.059	0.020	0.016	0.028	0.020	0.017
	North Ticket Machines	11	4/29/2026	9:52	0.060	0.115	0.089	0.125	0.108	0.088
Montgomery	North Agent Booth	16	4/29/2026	8:56	0.068	0.023	0.022	0.026	0.025	0.024
	North Ticket Machines	15	4/29/2026	8:55	0.058	0.020	0.017	0.023	0.020	0.019
	Platform	14	4/29/2026	9:03	0.144	0.030	0.027	0.032	0.031	0.029
Embarcadero	Southwest Agent Booth	20	4/30/2026	8:49	0.139	0.017	0.017	0.020	0.019	0.019
	Southwest Ticket Machines	19	4/30/2026	9:04	0.138	0.017	0.016	0.021	0.020	0.019
	Platform	18	4/30/2026	9:05	0.135	0.049	0.045	0.053	0.048	0.044
12th St. Oakland	Central Agent Booth	26	4/30/2026	10:49	0.040	0.021	0.020	0.020	0.019	0.019
	North Ticket Machines	25	4/30/2026	10:39	0.044	0.020	0.019	0.021	0.019	0.018
	Upper Platform	27	4/30/2026	10:38	0.045	0.025	0.023	0.026	0.024	0.021
19th St. Oakland	Northeast Ticket Machines	23	4/30/2026	10:58	0.059	0.020	0.019	0.024	0.021	0.020
	Central Agent Booth	24	4/30/2026	10:59	0.058	0.015	0.014	0.018	0.017	0.016
	Lower Platform	22	4/30/2026	11:00	0.060	0.015	0.014	0.017	0.016	0.017
				Max	0.144	0.115	0.089	0.125	0.108	0.088
				Min	0.035	0.015	0.013	0.017	0.016	0.013
				Avg	0.077	0.041	0.032	0.047	0.039	0.031

Attachment 4

CAM-17 Settled Dust Metals Analyses – Montgomery, Powell & Civic Center Stations

Station	Level	Sample ID	Sampled Date
Montgomery Station Fan Room 305/306	Platform (Northern End)	MONT-306	4/29/2026
Powell Station Fan Room 304	Platform (Northern End)	POW-304	4/29/2026
Civic Center Station Fan Room 301A/B	Platform (Southern End, Opposite Side of Elevator)	CIVIC-301A/B	4/29/2026



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2605155

Report Created for: SCA Environmental, Inc.

320 Justin Drive
San Francisco, CA 94112

Project Contact: Dan Leung

Project P.O.:

Project: F-14529; Bart M Line Ambient Testing

Project Location: Bart M Line

Project Received: 05/04/2026

Analytical Report reviewed & approved for release on 05/11/2026 by:

Yen Cao

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated.





Glossary of Terms & Qualifier Definitions

Client: SCA Environmental, Inc.**WorkOrder:** 2605155**Project:** F-14529; Bart M Line Ambient Testing

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	The % recovery of Continuing Calibration Verification
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (sample filtered using a 0.45 µm filter size)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL (if present) or RL.
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



Glossary of Terms & Qualifier Definitions

Client: SCA Environmental, Inc.

WorkOrder: 2605155

Project: F-14529; Bart M Line Ambient Testing

TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	"Too Numerous to Count;" greater than 250 colonies observed on the plate.
TPH-Diesel	Sample results for semi-volatile TPH (diesel, kerosene, oil, etc) were calculated using a background subtraction procedure to correct for instrument baseline rise (column bleed) as described in Sec 7.7.2.2 of EPA 8015 B, C.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

a16 Reporting limit raised due to high metals content.



Analytical Report

Client: SCA Environmental, Inc.
Date Received: 05/04/2026 9:57
Date Prepared: 05/06/2026
Project: F-14529; Bart M Line Ambient Testing

WorkOrder: 2605155
Extraction Method: SW3050 B
Analytical Method: SW6020B
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument FileID	Batch ID
MONT-306	2605155-001A	Solid	04/29/2026	ICP-MS4 321SMPL.d	341182

Analytes	Result	RL	DF	Date Analyzed
Antimony	29.9	10.0	20	05/07/2026 00:57
Arsenic	ND	10.0	20	05/07/2026 00:57
Barium	486	100	20	05/07/2026 00:57
Beryllium	ND	10.0	20	05/07/2026 00:57
Cadmium	20.0	10.0	20	05/07/2026 00:57
Chromium	118	10.0	20	05/07/2026 00:57
Cobalt	15.8	10.0	20	05/07/2026 00:57
Copper	827	10.0	20	05/07/2026 00:57
Lead	763	10.0	20	05/07/2026 00:57
Mercury	ND	1.00	20	05/07/2026 00:57
Molybdenum	17.4	10.0	20	05/07/2026 00:57
Nickel	88.7	10.0	20	05/07/2026 00:57
Selenium	ND	10.0	20	05/07/2026 00:57
Silver	ND	10.0	20	05/07/2026 00:57
Thallium	ND	10.0	20	05/07/2026 00:57
Vanadium	36.7	10.0	20	05/07/2026 00:57
Zinc	35,600	100	20	05/07/2026 00:57

Surrogates	REC (%)	Limits	DF	
Terbium	92	70-130	20	05/07/2026 00:57

Analyst(s): MJA

Analytical Comments: a16

(Cont.)



Analytical Report

Client: SCA Environmental, Inc.
Date Received: 05/04/2026 9:57
Date Prepared: 05/06/2026
Project: F-14529; Bart M Line Ambient Testing

WorkOrder: 2605155
Extraction Method: SW3050 B
Analytical Method: SW6020B
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument FileID	Batch ID
POW-304	2605155-002A	Solid	04/29/2026	ICP-MS4 322SMPL.d	341182

Analytes	Result	RL	DF	Date Analyzed
Antimony	18.5	10.0	20	05/07/2026 01:01
Arsenic	ND	10.0	20	05/07/2026 01:01
Barium	218	100	20	05/07/2026 01:01
Beryllium	ND	10.0	20	05/07/2026 01:01
Cadmium	ND	10.0	20	05/07/2026 01:01
Chromium	87.2	10.0	20	05/07/2026 01:01
Cobalt	13.6	10.0	20	05/07/2026 01:01
Copper	1040	10.0	20	05/07/2026 01:01
Lead	153	10.0	20	05/07/2026 01:01
Mercury	ND	1.00	20	05/07/2026 01:01
Molybdenum	ND	10.0	20	05/07/2026 01:01
Nickel	58.4	10.0	20	05/07/2026 01:01
Selenium	ND	10.0	20	05/07/2026 01:01
Silver	ND	10.0	20	05/07/2026 01:01
Thallium	ND	10.0	20	05/07/2026 01:01
Vanadium	39.2	10.0	20	05/07/2026 01:01
Zinc	5750	100	20	05/07/2026 01:01

Surrogates	REC (%)	Limits	DF	
Terbium	98	70-130	20	05/07/2026 01:01

Analyst(s): MJA

Analytical Comments: a16

(Cont.)



Analytical Report

Client: SCA Environmental, Inc.
Date Received: 05/04/2026 9:57
Date Prepared: 05/06/2026
Project: F-14529; Bart M Line Ambient Testing

WorkOrder: 2605155
Extraction Method: SW3050 B
Analytical Method: SW6020B
Unit: mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument FileID	Batch ID
CIVIC-301A/B	2605155-003A	Solid	04/29/2026	ICP-MS4 323SMPL.d	341182

Analytes	Result	RL	DF	Date Analyzed
Antimony	13.8	10.0	20	05/07/2026 01:05
Arsenic	ND	10.0	20	05/07/2026 01:05
Barium	229	100	20	05/07/2026 01:05
Beryllium	ND	10.0	20	05/07/2026 01:05
Cadmium	ND	10.0	20	05/07/2026 01:05
Chromium	89.5	10.0	20	05/07/2026 01:05
Cobalt	23.4	10.0	20	05/07/2026 01:05
Copper	1270	10.0	20	05/07/2026 01:05
Lead	148	10.0	20	05/07/2026 01:05
Mercury	ND	1.00	20	05/07/2026 01:05
Molybdenum	10.5	10.0	20	05/07/2026 01:05
Nickel	66.8	10.0	20	05/07/2026 01:05
Selenium	ND	10.0	20	05/07/2026 01:05
Silver	ND	10.0	20	05/07/2026 01:05
Thallium	ND	10.0	20	05/07/2026 01:05
Vanadium	53.7	10.0	20	05/07/2026 01:05
Zinc	3990	100	20	05/07/2026 01:05

Surrogates	REC (%)	Limits	DF	
Terbium	89	70-130	20	05/07/2026 01:05

Analyst(s): MJA

Analytical Comments: a16



Quality Control Report

Client: SCA Environmental, Inc.

Date Prepared: 05/06/2026

Date Analyzed: 05/06/2026

Instrument: ICP-MS5

Matrix: Soil

Project: F-14529; Bart M Line Ambient Testing

WorkOrder: 2605155

BatchID: 341182

Extraction Method: SW3050 B

Analytical Method: SW6020B

Unit: mg/kg

Sample ID: MB/LCS/LCSD-341182

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Antimony	ND	0.0940	0.500	-	-	-
Arsenic	ND	0.100	0.500	-	-	-
Barium	ND	0.700	5.00	-	-	-
Beryllium	ND	0.0630	0.500	-	-	-
Cadmium	ND	0.0630	0.500	-	-	-
Chromium	ND	0.110	0.500	-	-	-
Cobalt	ND	0.0610	0.500	-	-	-
Copper	ND	0.150	0.500	-	-	-
Lead	ND	0.110	0.500	-	-	-
Mercury	ND	0.0410	0.0500	-	-	-
Molybdenum	ND	0.110	0.500	-	-	-
Nickel	ND	0.160	0.500	-	-	-
Selenium	ND	0.160	0.500	-	-	-
Silver	ND	0.0620	0.500	-	-	-
Thallium	ND	0.0690	0.500	-	-	-
Vanadium	ND	0.0920	0.500	-	-	-
Zinc	ND	1.80	5.00	-	-	-

Surrogate Recovery

Terbium	530	500	106	70-130
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(Cont.)



Quality Control Report

Client: SCA Environmental, Inc.

Date Prepared: 05/06/2026

Date Analyzed: 05/06/2026

Instrument: ICP-MS5

Matrix: Soil

Project: F-14529; Bart M Line Ambient Testing

WorkOrder: 2605155

BatchID: 341182

Extraction Method: SW3050 B

Analytical Method: SW6020B

Unit: mg/kg

Sample ID: MB/LCS/LCSD-341182

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	48.0	47.8	50	96	96	75-125	0.421	20
Arsenic	49.9	49.3	50	100	99	75-125	1.19	20
Barium	500	488	500	100	98	75-125	2.29	20
Beryllium	50.9	50.2	50	102	100	75-125	1.53	20
Cadmium	49.6	49.1	50	99	98	75-125	1.15	20
Chromium	49.6	49.7	50	99	99	75-125	0.0101	20
Cobalt	51.3	51.0	50	103	102	75-125	0.551	20
Copper	50.8	50.2	50	102	100	75-125	1.10	20
Lead	50.2	49.6	50	100	99	75-125	1.22	20
Mercury	1.24	1.25	1.25	99	100	75-125	0.962	20
Molybdenum	47.6	48.0	50	95	96	75-125	0.787	20
Nickel	50.3	49.8	50	101	100	75-125	1.04	20
Selenium	49.9	50.0	50	100	100	75-125	0.184	20
Silver	48.6	48.3	50	97	97	75-125	0.635	20
Thallium	52.2	50.6	50	104	101	75-125	3.16	20
Vanadium	49.7	49.2	50	99	98	75-125	0.874	20
Zinc	506	504	500	101	101	75-125	0.291	20
Surrogate Recovery								
Terbium	511	503	500	102	101	70-130	1.67	20



Certified Analyte List

Client: SCA Environmental, Inc.

WorkOrder: 2605155

Project: F-14529; Bart M Line Ambient Testing

Analyte	Cert 1	Cert 2	Cert 3	Cert 4	Cert 5	Analytical Method	Matrix
Antimony	●	●	○	○	○	SW6020B	Soil
Arsenic	●	●	○	○	○	SW6020B	Soil
Barium	●	●	○	○	○	SW6020B	Soil
Beryllium	●	●	○	○	○	SW6020B	Soil
Cadmium	●	●	○	○	○	SW6020B	Soil
Chromium	●	●	○	○	○	SW6020B	Soil
Cobalt	●	●	○	○	○	SW6020B	Soil
Copper	●	●	○	○	○	SW6020B	Soil
Lead	●	●	○	○	○	SW6020B	Soil
Mercury	●	●	○	○	○	SW6020B	Soil
Molybdenum	●	●	○	○	○	SW6020B	Soil
Nickel	●	●	○	○	○	SW6020B	Soil
Selenium	●	●	○	○	○	SW6020B	Soil
Silver	●	●	○	○	○	SW6020B	Soil
Thallium	●	●	○	○	○	SW6020B	Soil
Vanadium	●	●	○	○	○	SW6020B	Soil
Zinc	●	●	○	○	○	SW6020B	Soil

Certifications

Cert 1 CA ELAP 1644

Cert 2 ORELAP (NELAP) 4033

The Certified Analyte Report lists the compounds for which MAI is accredited at the time of issuance. Although MAI holds multiple accreditations, methods with extensive compound lists may not be fully accredited due to state agency availability.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2605155

ClientCode: SCAF

☐ WaterTrax
 ☐ CLIP
 ☐ EDF
 ☐ EQuIS
 ☐ Dry-Weight
 ☒ Email
 ☐ HardCopy
 ☐ ThirdParty
 ☐ J-flag
☐ Detection Summary
 ☐ Excel

Report to:

Dan Leung
SCA Environmental, Inc.
320 Justin Drive
San Francisco, CA 94112
415-882-1675 FAX: (415) 703-0701

Email: dleung@sca-enviro.com; labreports99@gm
cc/3rd Party:
PO:
Project: F-14529; Bart M Line Ambient Testing

Bill to:

Accounts Payable
SCA Environmental, Inc.
320 Justin Drive
San Francisco, CA 94112
labreports99@gmail.com

Requested TAT: 5 days;

Date Received: 05/04/2026

Date Logged: 05/05/2026

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2605155-001	MONT-306	Solid	4/29/2026 00:00	☐	A	A										
2605155-002	POW-304	Solid	4/29/2026 00:00	☐	A	A										
2605155-003	CIVIC-301A/B	Solid	4/29/2026 00:00	☐	A	A										

Test Legend:

1	CAM17MS_TTLC_S	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Jennifer Lagerbom

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: SCA ENVIRONMENTAL, INC.

Project: F-14529; Bart M Line Ambient Testing

Work Order: 2605155

Client Contact: Dan Leung

QC Level: LEVEL 2

Contact's Email: dleung@sca-enviro.com; labreports99@gmail.com

Comments:

Date Logged: 5/5/2026

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	MONT-306	Solid	SW6020 B (CAM 17)	1	2OZ PJ, Unpres	☐	☐	☐	4/29/2026	5 days	5/11/2026		☐	☐
002A	POW-304	Solid	SW6020 B (CAM 17)	1	2OZ PJ, Unpres	☐	☐	☐	4/29/2026	5 days	5/11/2026		☐	☐
003A	CIVIC-301A/B	Solid	SW6020 B (CAM 17)	1	2OZ PJ, Unpres	☐	☐	☐	4/29/2026	5 days	5/11/2026		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.



CHAIN OF CUSTODY RECORD

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim #_____

ICE/t° _____	COMMENTS:
GOOD CONDITION _____	
HEAD SPACE ABSENT _____	
DECHLORINATED IN LAB _____	
APPROPRIATE CONTAINERS _____	
PRESERVED IN LAB _____	
VOAS O&G METALS OTHER HAZARDOUS:	
PRESERVATION _____ pH-2 _____	



Sample Receipt Checklist

Client Name: SCA Environmental, Inc.
Project: F-14529; Bart M Line Ambient Testing

Date and Time Received: 5/4/2026 09:57
Date Logged: 5/5/2026
Received by: Agustina Venegas
Logged by: Agustina Venegas

WorkOrder No: 2605155 Matrix: Solid
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒
COC quote is active?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☒	

Sample/Temp Blank temperature	Temp:	NA ☒
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐ No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2)?	Yes ☐ No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7)?	Yes ☐ No ☐	NA ☒

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2606B73

Report Created for: SCA Environmental, Inc.

320 Justin Drive
San Francisco, CA 94112

Project Contact: Dan Leung

Project P.O.:

Project: F14529; BART 2026 Ambient Testing

Project Location: BART, Mont. Powell, Civi CTR

Project Received: 06/16/2026

Analytical Report reviewed & approved for release on 06/25/2026 by:

Yen Cao

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated.





Glossary of Terms & Qualifier Definitions

Client: SCA Environmental, Inc.**WorkOrder:** 2606B73**Project:** F14529; BART 2026 Ambient Testing

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	The % recovery of Continuing Calibration Verification
DF	Dilution Factor
DISS	Dissolved (sample filtered using a 0.45 µm filter size)
DISTLC	Soluble Threshold Limit Concentration using DI water
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
HMI	ICPMS HMI= High Matrix Sample Introduction
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit ¹
MET	Modified Elutriate Test (Effluent Elutriate)
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL (if present) or RL.
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit ²
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SET	Standard Elutriate Test (Open Water)

¹ MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

² RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.



Glossary of Terms & Qualifier Definitions

Client: SCA Environmental, Inc.

WorkOrder: 2606B73

Project: F14529; BART 2026 Ambient Testing

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	Micro: "Too Numerous to Count;" greater than 250 colonies observed on the plate.
TPH-Diesel	Sample results for semi-volatile TPH (diesel, kerosene, oil, etc) were calculated using a background subtraction procedure to correct for instrument baseline rise (column bleed) as described in Sec 7.7.2.2 of EPA 8015 B, C.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)



Analytical Report

Client: SCA Environmental, Inc.
Date Received: 06/16/2026 14:37
Date Prepared: 06/17/2026
Project: F14529; BART 2026 Ambient Testing

WorkOrder: 2606B73
Extraction Method: CA Title 22
Analytical Method: SW6020B
Unit: mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument FileID	Batch ID
MONT-306	2606B73-001A	Solid	06/16/2026 13:01	ICP-MS6 243SMPL.d	344118

Analytes	Result	RL	DE	Date Analyzed
Cadmium	ND	0.0500	1	06/19/2026 20:51
Chromium	1.21	0.100	1	06/19/2026 20:51
Copper	2.16	0.100	1	06/19/2026 20:51
Lead	3.87	0.100	1	06/19/2026 20:51
Zinc	655	1.00	1	06/19/2026 20:51

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument FileID	Batch ID
POW-304	2606B73-002A	Solid	06/16/2026	ICP-MS6 244SMPL.d	344118

Analytes	Result	RL	DE	Date Analyzed
Chromium	0.884	0.100	1	06/19/2026 20:54
Copper	4.55	0.100	1	06/19/2026 20:54
Lead	3.45	0.100	1	06/19/2026 20:54
Zinc	233	1.00	1	06/19/2026 20:54

Analyst(s): WV

(Cont.)



Analytical Report

Client: SCA Environmental, Inc.
Date Received: 06/16/2026 14:37
Date Prepared: 06/17/2026
Project: F14529; BART 2026 Ambient Testing

WorkOrder: 2606B73
Extraction Method: CA Title 22
Analytical Method: SW6020B
Unit: mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument FileID	Batch ID
CIVIC-301 A/B	2606B73-003A	Solid	06/16/2026	ICP-MS6 246SMPL.d	344118

Analytes	Result	RL	DE	Date Analyzed
Chromium	2.39	0.100	1	06/19/2026 21:01
Copper	16.3	0.100	1	06/19/2026 21:01
Lead	9.89	0.100	1	06/19/2026 21:01
Zinc	320	1.00	1	06/19/2026 21:01

Analyst(s): WV



Quality Control Report

Client: SCA Environmental, Inc.

Date Prepared: 06/17/2026

Date Analyzed: 06/19/2026

Instrument: ICP-MS6

Matrix: Soil

Project: F14529; BART 2026 Ambient Testing

WorkOrder: 2606B73

BatchID: 344118

Extraction Method: CA Title 22

Analytical Method: SW6020B

Unit: mg/L

Sample ID: MB/LCS/LCSD-344118

QC Summary Report for Metals (STLC)

Analyte	MB Result	MDL	RL			
Cadmium	ND	0.0500	0.0500	-	-	-
Chromium	ND	0.100	0.100	-	-	-
Copper	ND	0.100	0.100	-	-	-
Lead	ND	0.100	0.100	-	-	-
Zinc	ND	1.00	1.00	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Cadmium	10.0	10.2	10	100	102	75-125	1.54	20
Chromium	9.69	10.1	10	97	101	75-125	3.76	20
Copper	9.94	10.0	10	99	100	75-125	0.939	20
Lead	9.93	10.2	10	99	102	75-125	2.52	20
Zinc	100	103	100	100	103	75-125	2.24	20



Certified Analyte List

Client: SCA Environmental, Inc.

WorkOrder: 2606B73

Project: F14529; BART 2026 Ambient Testing

Analyte	Cert 1	Cert 2	Cert 3	Cert 4	Cert 5	Analytical Method	Matrix
Cadmium	●	●	○	○	○	SW6020B	Soil
Chromium	●	●	○	○	○	SW6020B	Soil
Copper	●	●	○	○	○	SW6020B	Soil
Lead	●	●	○	○	○	SW6020B	Soil
Zinc	●	●	○	○	○	SW6020B	Soil

Certifications

Cert 1 CA ELAP 1644

Cert 2 ORELAP (NELAP) 4033

The Certified Analyte Report lists the compounds for which MAI is accredited at the time of issuance. Although MAI holds multiple accreditations, methods with extensive compound lists may not be fully accredited due to state agency availability.

McC Campbell Analytical, Inc.



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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 2606B73

ClientCode: SCAF

☐ WaterTrax ☐ CLIP ☐ EDF ☐ EQuIS ☐ Dry-Weight ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Excel

Report to:

Dan Leung
SCA Environmental, Inc.
320 Justin Drive
San Francisco, CA 94112
415-882-1675 FAX: (415) 703-0701

Email: dleung@sca-enviro.com; labreports99@gm
cc/3rd Party:
PO:
Project: F14529; BART 2026 Ambient Testing

Bill to:

Accounts Payable
SCA Environmental, Inc.
320 Justin Drive
San Francisco, CA 94112
labreports99@gmail.com

Requested TAT: 5 days;

Date Received: 06/16/2026

Date Logged: 06/17/2026

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2606B73-001	MONT-306	Solid	6/16/2026 13:01	☐	A	A										
2606B73-002	POW-304	Solid	6/16/2026 00:00	☐	A	A										
2606B73-003	CIVIC-301 A/B	Solid	6/16/2026 00:00	☐	A	A										

Test Legend:

1	METALSMS_STLC_S	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Project Manager: Jennifer Lagerbom

Prepared by: Agustina Venegas

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: SCA ENVIRONMENTAL, INC.

Project: F14529; BART 2026 Ambient Testing

Work Order: 2606B73

Client Contact: Dan Leung

QC Level: LEVEL 2

Contact's Email: dleung@sca-enviro.com; labreports99@gmail.com

Comments:

Date Logged: 6/17/2026

☐ WaterTrax ☐ CLIP ☐ EDF ☐ Excel ☐ EQUIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry- Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	MONT-306	Solid	SW6020 (Metals) (STLC) <Cadmium, Chromium, Copper, Lead, Zinc>	1	4OZ aGJ, Unpres	☐	☐	☐	6/16/2026 13:01	5 days*	6/25/2026		☐	☐
002A	POW-304	Solid	SW6020 (Metals) (STLC) <Chromium, Copper, Lead, Zinc>	1	4OZ aGJ, Unpres	☐	☐	☐	6/16/2026	5 days*	6/25/2026		☐	☐
003A	CIVIC-301 A/B	Solid	SW6020 (Metals) (STLC) <Chromium, Copper, Lead, Zinc>	1	4OZ aGJ, Unpres	☐	☐	☐	6/16/2026	5 days*	6/25/2026		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U** = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.

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www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☐ PDF ☒ EDD ☐ Write On (DW) ☐ EQUIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim # _____

Report To: Dan Leung

Bill To: SCA Environmental, Inc.

Company: SCA Environmental, Inc.

3637 Grand Ave, #C Oakland, CA 94610 labreports99@gmail.com

Tele: (415) 867-9544

E-Mail: dleung@sca-enviro.com

Project #: F14529

Project Name: BART 2026 AMBIENT

Project Location: BART, MONT. POWELL.

Purchase Order#	18511116
-----------------	----------

Sampler Signature: Dan Leung

CNIC CR

[illegible]

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:
Dan Leung

Date:

6/16

Time:

2:37 P

Received By:

24

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

ICE/t⁹

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

COMMENTS:

1) CADMIUM, CHROMIUM, COPPER, LEAD, ZINC

2) CHROMIUM, COPPER, LEAD, ZINC

3) CHROMIUM, COPPER, LEAD, ZINC

VOAS	O&G	METALS	OTHER	HAZARDOUS:
PRESERVATION		pH<2		



Sample Receipt Checklist

Client Name: SCA Environmental, Inc.
Project: F14529; BART 2026 Ambient Testing

Date and Time Received: 6/16/2026 14:37
Date Logged: 6/17/2026
Received by: Agustina Venegas
Logged by: Agustina Venegas

WorkOrder No: 2606B73 Matrix: Solid
Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Sample IDs noted by Client on COC?	Yes ☒	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☒	No ☐	
Sampler's name noted on COC?	Yes ☒	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☒
COC quote is active?	Yes ☐	No ☐	NA ☒

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	NA ☒
Shipping container/cooler in good condition?	Yes ☒	No ☐	
Samples in proper containers/bottles?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☒	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☒	

Sample/Temp Blank temperature	Temp:	NA ☒
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes ☐ No ☐	NA ☒
Sample labels checked for correct preservation?	Yes ☒ No ☐	
pH acceptable upon receipt (Metal: <2)?	Yes ☐ No ☐	NA ☒

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes ☐ No ☐	NA ☒
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7)?	Yes ☐ No ☐	NA ☒

Comments:

Attachment 5

SCA's Personnel Certifications

The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

Daniel M.K. Leung

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene® (ABIH®) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

Certified Industrial Hygienist® (CIH®)

The aforementioned individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.



Credential Number: 10893 CP

Award Date: November 21, 2015

Expiration Date: June 1, 2026

Alan Leibowitz, CIH, CSP, FAIHA
Chair of the Board of Directors



Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant
Daniel Leung



Name

Certification No. **07-4175**

Expires on **04/19/2027**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq of the Business and Professions Code.





STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Daniel Leung

CERTIFICATE TYPE:

Lead Inspector/Assessor

Lead Project Monitor

NUMBER:

LRC-00002456

LRC-00002628

EXPIRATION DATE:

10/14/2026

8/22/2026

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD