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30 May 2024  
File No.: 0207559-001

TranSystems  
2000 Center Street, Suite 303  
Berkeley, CA 94704

Attention: Kirsten M. Clayward, GISP

Subject : Environmental Screening Memorandum  
Tom Bates Regional Sports Complex Project  
400 Gilman Street  
Berkeley, California

Dear Kirsten M. Clayward:

As requested, we are submitting this draft environmental screening results summary for soil samples collected at the Tom Bates Regional Sports Complex in Berkeley, California (Figure 1).

## Field Investigation

### SITE RECONNAISSANCE

Haley & Aldrich performed a field reconnaissance of the Project site on March 11<sup>th</sup>, 2024, before performing subsurface borings. Site reconnaissance included determining site access and marking the proposed boring locations with white spray paint and stakes. The markings were also used for utility clearance through Underground Service Alert (USA) and a private utility locator.

### SOIL BORINGS

Before our investigation, a subsurface drilling permit was obtained from the City of Berkeley Toxic Management Division and is included in Attachment A.

A total of seven borings were drilled on March 22<sup>nd</sup> and 26<sup>th</sup>, 2024, as part of this investigation and were designated as borings SB-01 through SB-07 (Figure 2). All borings were hand-augered to a depth of 5 feet below ground surface (bgs); borings SB-01 and SB-02 were advanced further to their total depths of 15 and 25 feet bgs, respectively, using a direct-push drill rig by Confluence Technical Services. Continuous soil cores were collected from each boring and were visually logged using the Unified Soil Classification System and screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). Ambient air was also monitored for methane during the drilling operation using a RAE Systems MultiRAE 5-gas monitor. Boring logs are included in Attachment B.

Soil samples were collected from depths of 3 and 5 feet bgs from all borings; soil samples were also collected from SB-01 at depths of 10 and 15 feet bgs, and from SB-02 at depths of 10 and 14 feet bgs. The soil samples were placed in new Teflon-sealed glass jars, provided by the laboratory. The soil sample containers were labeled with the boring location identification and sample depth, placed in resealable plastic bags, and stored in an ice-filled cooler. The collected soil samples were transported under standard chain of custody protocols to Eurofins Calscience (Eurofins), a California-certified analytical laboratory.

Soil cuttings and decontamination liquid generated from the drilling activities were placed in a labeled 55-gallon steel drum, which was temporarily stored on the Site pending waste profiling. Drilling equipment in contact with subsurface soils was decontaminated using deionized water and phosphate-free laboratory detergent such as Liquinox® prior to and between boring locations. The soil samples collected from depths of 3 and 5 feet bgs from all borings were composited into a single sample per boring by the laboratory prior to analysis; the composite samples for SB-01 and SB-02 included the samples collected from depths of 3, 5, and 10 feet bgs.

### ANALYTICAL TESTING

Soil samples were analyzed for the following:

- California Code of Regulations (CCR) Title 22 Metals (6010/7471A).
- Total Petroleum Hydrocarbons as Diesel (TPHd) by Method SW8015B;
- Total Petroleum Hydrocarbons as Motor Oil (TPHmo) by Method SW8015B;
- Volatile Organic Compounds (VOCs), including TPH as gasoline (TPHg) (Method SW8260B);

A summary of the tabulated analytical results is included in Attachment C. The Eurofins analytical laboratory reports are included in Attachment D.

The soil analytical results were compared to the San Francisco Bay Regional Water Quality Control Board (Water Board) environmental screening levels (ESLs) for Human Health Risk Levels (Table S-1) for direct exposure for construction workers. Results for metals were also compared to the State (Title 22-STLC) and Federal (40 CFR Part 261.24 – TCLP) hazardous waste criteria. If metals exceeded the “not to exceed-limits” for the hazardous waste criteria, additional analyses were run to determine if the soil could be classified as hazardous waste. In addition, arsenic was compared to the upper background limits of 11 mg/kg for the urbanized San Francisco Bay region for samples with concentrations exceeding the ESL (Duvergé, 2011)<sup>1</sup>.

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<sup>1</sup>Duvergé, D. J., 2011, Establishing background arsenic in soil of the urbanized San Francisco Bay region (Doctoral dissertation, San Francisco State University).

## Results

### BORING SB-01

Encountered soil from SB-01 was saturated 3 feet bgs but not as sticky as the saturated soil at SB-02. A petroleum-like odor was observed from 3 to 5 feet bgs; elevated PID readings were observed at 3 and 6 feet bgs.

- TPHg was detected at a concentration of 210 ug/kg, which is below the construction worker ESL of 1,800,000 ug/kg.
- TPHd and TPHmo were detected at concentrations of 210 and 350 ug/kg, respectively, which are below the construction worker ESLs of 1,100 and 54,000 ug/kg, respectively.
- Most metals were either not detected above the laboratory Reporting Limits (RLs) or were detected below the corresponding Construction Worker ESLs with the exception of arsenic, chromium, nickel, and lead.
  - Arsenic was detected at a concentration of 16.5 mg/kg, which is above the Construction Worker ESL of 0.98 mg/kg and is slightly higher than the estimated background limit of 11 mg/kg.
  - Lead was detected at a concentration of 579 mg/kg, which is above the Construction Worker ESL of 160 mg/kg.
  - Nickel was detected at a concentration of 173 mg/kg, which is above the Construction Worker ESL of 86 mg/kg.
- Chromium STLC and TCLP results are below the corresponding State STLC and Federal TCLP criteria.
- The lead STLC result of 21.3 mg/L exceeds the corresponding State STLC criteria.
- The lead TCLP result is below the corresponding Federal TCLP criteria.

### BORING SB-02

Soil was saturated and sticky at 3 feet bgs. A petroleum-like odor and elevated PID readings were observed from 3 to 5 feet bgs. Debris such as wood and metal fragments were observed in the upper five feet.

- Two VOCs (2-butanone methyl ethyl ketone and acetone) were detected at concentrations of 29 and 170 ug/kg, respectively, which are below the construction worker ESLs of 120,000,000 and 270,000,000 ug/kg, respectively.
- TPHg was detected at a concentration of 620 ug/kg, which is below the construction worker ESL of 1,800,000 ug/kg.
- TPHd and TPHmo were detected at concentrations of 69 and 110 ug/kg, respectively, which are below the construction worker ESLs of 1,100 and 54,000 ug/kg, respectively.
- Most metals were either not detected above the laboratory RLs or were detected below the corresponding ESLs with the exception of arsenic, chromium, and lead.

- Arsenic was detected at a concentration of 7.86 mg/kg, which is above the Construction Worker ESL of 0.98 mg/kg but is lower than the estimated background limit of 11 mg/kg.
  - Chromium was detected at a concentration of 159 mg/kg; no construction worker ESL exists for chromium.
  - Lead was detected at a concentration of 224 mg/kg, which is above the Construction Worker ESL of 160 mg/kg.
  - Nickel was detected at a concentration of 23.6 mg/kg, which is below the Construction Worker ESL of 86 mg/kg.
- Additional STLC and TCLP results for chromium and lead are below the corresponding State STLC and Federal TCLP criteria.
  - The Copper STLC result is below the corresponding State STLC criteria.

### **BORING SB-03**

No saturated soil was observed at SB-03. Debris such as wood fragments were observed in the upper five feet.

- One VOC (acetone) was detected at a concentration of 130 ug/kg, which is below the construction worker ESL of 270,000,000 ug/kg.
- TPHg was detected at a concentration of 240 ug/kg, which is below the construction worker ESL of 1,800,000 ug/kg.
- TPHd and TPHmo were detected at concentrations of 120 and 250 ug/kg, respectively, which are below the construction worker ESLs of 1,100 and 54,000 ug/kg, respectively.
- Most metals were either not detected above the laboratory RLS or were detected below the corresponding ESLs. Arsenic was detected at a concentration of 7.66 mg/kg, which is above the Construction Worker ESL of 0.98 mg/kg but is less than the estimated background limit of 11 mg/kg. Lead was detected at a concentration of 264 mg/kg, which is above the Construction Worker ESL of 160 mg/kg.
- The lead STLC result of 6.96 mg/L exceeds the corresponding State STLC criteria.
- The lead TCLP result is below the corresponding Federal TCLP criteria.

### **BORING SB-04**

No saturated soil was observed at SB-04. Minimal debris (i.e., one glass fragment) was observed in the upper five feet.

- VOCs and TPHg were not detected above the laboratory reporting limits (RLs).
- TPHd and TPHmo were detected at concentrations of 34 and 84 ug/kg, respectively, which are below the construction worker ESLs of 1,100 and 54,000 ug/kg, respectively.
- Most metals were either not detected above the laboratory RLS or were detected below the construction worker ESLs except for arsenic. Arsenic was detected at a concentration of 5.52

mg/kg, which is above the ESL of 0.98 mg/kg but is less than the estimated background limit of 11 mg/kg.

#### **BORING SB-05**

No saturated soil was observed at SB-05; soil became wet at 5 feet. No debris was observed at SB-05. No water was observed in the boring.

- VOCs and TPHg were not detected above the laboratory RLs.
- TPHd and TPHmo were detected at concentrations of 48 and 140 mg/kg, respectively, which are below the construction worker ESLs of 1,100 and 54,000 mg/kg, respectively.
- Most metals were either not detected above the laboratory RLs or were detected below the construction worker ESLs except for arsenic. Arsenic was detected at a concentration of 6.36 mg/kg, which is above the ESL of 0.98 mg/kg but is less than the estimated background limit of 11 mg/kg.
- The STLC result for lead is below the corresponding State STLC criteria.

#### **BORING SB-06**

No saturated soil was observed at SB-06. No debris was observed in the upper five feet.

- VOCs, TPHg, and TPHmo were not detected above the laboratory RLs.
- TPHd was detected at a concentration of 8.1 mg/kg, which is below the construction worker ESL of 1,100 mg/kg.
- Most metals were either not detected above the laboratory RLs or were detected below the corresponding ESLs except for arsenic. Arsenic was detected at a concentration of 8.18 mg/kg, which is above the ESL of 0.98 mg/kg but is less than the estimated background limit of 11 mg/kg.
- The STLC result for chromium is below the corresponding State STLC criteria.

#### **BORING SB-07**

No saturated soil was observed at SB-06. No debris was observed in the upper five feet.

- VOCs and TPHg were not detected above the laboratory RLs.
- TPHd and TPHmo were detected at concentrations of 14 and 45 mg/kg, respectively, which are below the construction worker ESLs of 1,100 and 54,000 mg/kg, respectively.
- Most metals were either not detected above the laboratory RLs or were detected below the corresponding ESLs except for arsenic. Arsenic was detected at a concentration of 6.34 mg/kg, which is above the ESL of 0.98 mg/kg but is less than the estimated background limit of 11 mg/kg.

## Investigation Derived Waste

Soil cuttings from the borings were stored on-site in one Department of Transportation (DOT) approved 55-gallon steel drum, until characterized. Based on the soil analytical results, the soil was classified as non-hazardous waste, and the drums will be hauled and properly disposed of off-site.

## Conclusions and Recommendations

This screening study was intended for preliminary evaluation of the presence of constituents of concern and should not be assumed to be representative of all on-site soil. Based on the soil screening results summarized above, disposal of most of the on-site soil should be acceptable at a Class II or III landfill as non-hazardous waste. This assumes that the results from future stockpiled soil will have similar or lower concentrations of the analyzed contaminants. However, it is still possible that shallow soil excavated from the vicinity of borings SB-01 and SB-03, or other areas of affected soil, could be classified as non-Resource Conservation Recovery Act (RCRA) California hazardous waste, based on the lead STLC results. Should future excavated soil be classified as non-RCRA hazardous waste, disposal at a Class I landfill may be required. Additionally, given the field observations and low levels of VOCs and TPH detections in the composite samples from borings SB-01 and SB-02, groundwater in the vicinity of SB-01 and SB-02, or other affected areas, could contain VOC and TPH concentrations above screening criteria.

Borings SB-04 and SB-06 were drilled in areas that are documented as containing potentially contaminated buried trench spoils. Boring SB-05 was drilled just outside of these delineated areas. The analytical results for the soil samples collected from these three borings did not indicate significant differences in concentrations of the analyzed constituents. The detected lead and TPHmo concentrations in the sample analyzed from boring SB-05 were greater than lead and TPHmo concentrations detected in borings SB-04 and SB-06.

Based on the screening results of this investigation, Haley & Aldrich recommends the following:

1. On-site soils that are removed during construction of the site improvements should be sampled and analyzed from the resulting stockpiles for proper waste characterization and disposal.
2. Contractors expecting to come into contact with shallow on-site soils and/or groundwater need to consider these results when determining the proper personal protective equipment (PPE) required for their work.

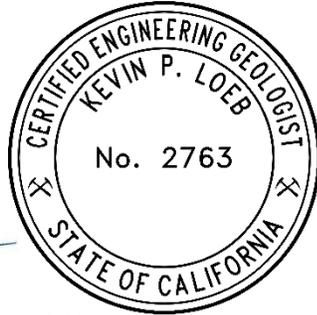
The above-listed recommendations are made in addition to the recommendations previously provided in our *Environmental Desktop Study Memorandum*, dated April 26<sup>th</sup>, 2023.

We appreciate the opportunity to provide services to TranSystems. Please contact us with any questions regarding this letter.

Sincerely,  
**HALEY & ALDRICH, INC.**



Kevin Loeb, PG, CEG  
Engineering Geologist | Senior Project Manager



Christopher R. Nardi, PE, GE  
Senior Technical Expert, Geotechnical Engineer





GIS: \\haleyaldrich.com\share\granite\2022\20860-TomBatesSportsComplex\GIS\ArcGIS\20860-TomBates.aprx - kdrozynska - 4/10/2024 10:23 AM

37°54'20"N  
 122°19'40"W  
 37°53'10"N  
 37°52'0"N  
 37°50'50"N

San Francisco Bay

Albany

Berkeley

**SITE**

**HALEY  
ALDRICH**

TOM BATES REGIONAL SPORTS COMPLEX  
 400 GILMAN STREET  
 BERKELEY, CALIFORNIA

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 0.5 MILE  
 MAY 2024

FIGURE 1



MAP SOURCE: ESRI  
 SITE COORDINATES: 122°18'31"W, 37°52'35"N

GIS FILE PATH: \\haleyaldrich.com\share\grantee\2022\220960-TransSystems-TomBatesSportsComplex\GIS\AccGIS\202405-TomBates.aprx - USER: kdrozynska - LAST SAVED: 4/10/2024 11:38 AM



**LEGEND**

- BORING LOCATION BY H&A, DRILLED ON MARCH 22 AND 26, 2024
- APPROXIMATE EXTENT OF BURIED PHASE I TRENCH SPOILS

**NOTES**

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. AERIAL IMAGERY FROM NEARMAP, DATED 5/25/2021.



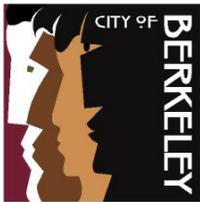
**HALEY ALDRICH** TOM BATES REGIONAL SPORTS COMPLEX  
 400 GILMAN STREET  
 BERKELEY, CALIFORNIA

**SITE PLAN**

MAY 2024

**FIGURE 2**

**Attachment A (Drilling Permit Application)**



Planning and Development Department  
 Toxics Management Division  
 A Certified Unified Program Agency

<b>TMD Use Only</b>	
Permit No.:	<u>24-EB-057</u> (expires 120 days from approval)
Permit Fee:	<u>\$1110</u> Check #: _____
Approved by:	<u>KE</u> Date: <u>3/5/24</u>
Admin:	Contractor Licenses – Reviewed by: <u>KE</u>
	Geo/Eng license <input checked="" type="radio"/> Y / N CoB Business Y / N
	Driller license <input checked="" type="radio"/> Y / N CoB Business Y / N
	Documents Scanned by: _____

Revised 7/10/2018

## SUBSURFACE DRILLING PERMIT APPLICATION

<b>Purpose of Application</b>	<input type="checkbox"/> Groundwater Monitoring/Vapor Well <b>Installation</b> <input type="checkbox"/> Groundwater Monitoring/Vapor Well <b>Destruction</b> (Provide approval letter from oversight agency) <input type="checkbox"/> Well <b>Modification</b> (pumps, vacuums, probes, elevation, etc.) <b>Number of Wells:</b> _____	<input type="checkbox"/> Soil Borings, probes, sampling points <b>Number of Borings:</b> _____ <input type="checkbox"/> Extension of Permit # _____
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Name of Facility:	
Address:	
Business Telephone:	Emergency Telephone:

Property Owner:
Owner Address:

Supervising Geological or Engineering Co.:	City of Berkeley Business Lic #:		
Address/City:			
Geol/Eng Lic. #:	Tel.:	Fax:	
Contact Person:	Email:		

Drilling Co.:	City of Berkeley Business Lic #:		
Address/City:			
C-57 License #:	Exp. Date:	Tel.:	Fax:
Local Contact Person:	Email:		

<b>Construction/Destruction Specifications (attach information as needed for multiple construction types)</b>			
Borehole/Well Casing Diameter:		Gauge of Well Casing:	
Borehole/Well Depth:	Well Screen type:	Slot Size:	
Type of grout (specify mix or product):			

- **Provide a scaled plan** identifying the proposed drilling locations, property boundaries, streets, structures, pollution source areas.
- Call the Toxics Management Division (TMD) at (510) 981-7460 to schedule an inspection of the grout sealing of wells, probes and boreholes. **Notify TMD a minimum of two (2) working days in advance** of first scheduled day of drilling
- This permit is subject to the Conditions of Approval stated on the following page.

I certify that I have prepared this application and that the work will be done in accordance with the conditions of this permit, the provisions of the laws of the State of California, including State Water Well Standards, and the ordinances and the rules and regulations of the City of Berkeley.

Signed \_\_\_\_\_ Representing \_\_\_\_\_ Date \_\_\_\_\_

**FEES: First Well/Each add'l: \$420/\$150 First Soil Boring/Each add'l: \$210/\$150**

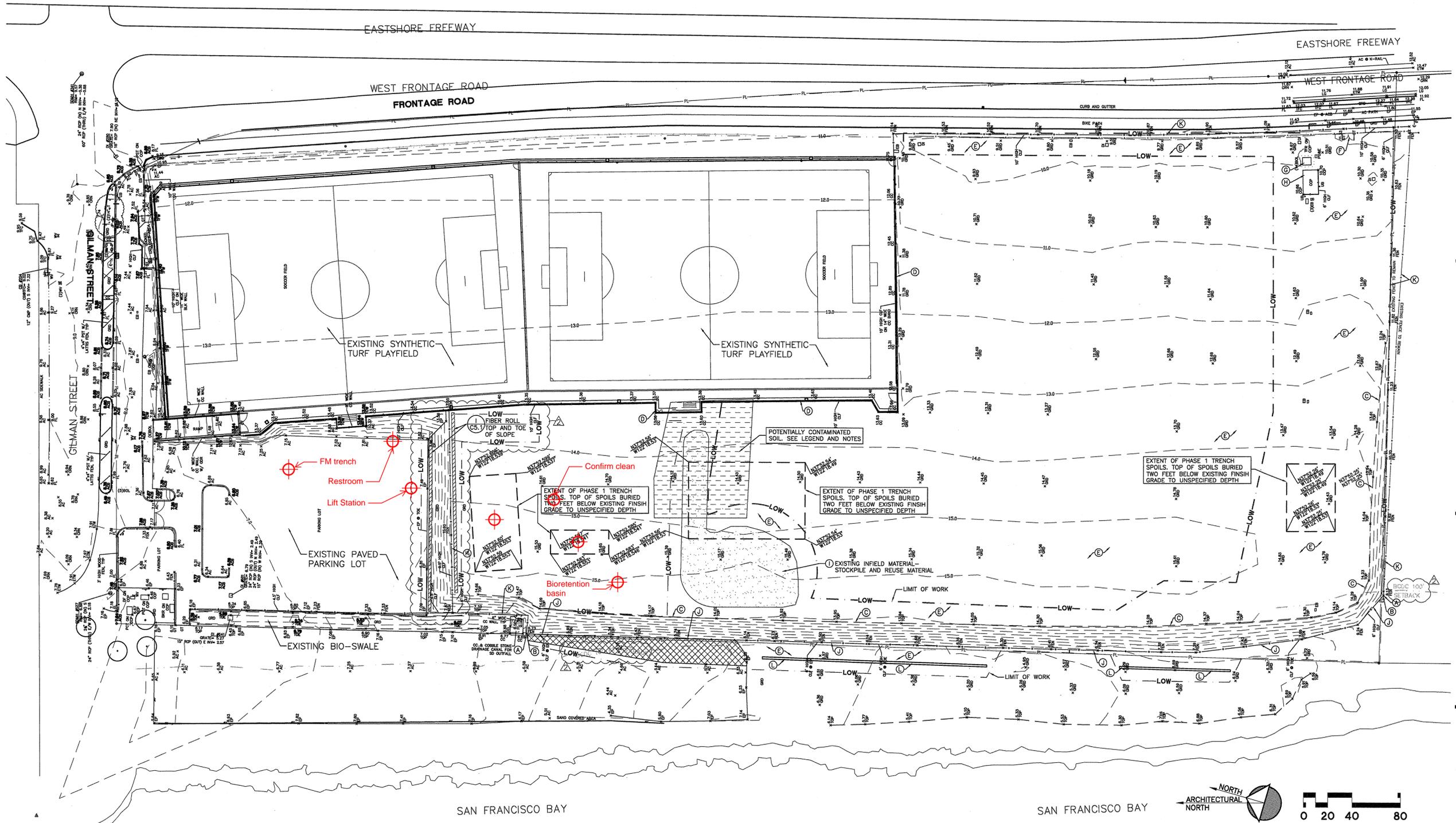


EXISTING CONDITIONS PLAN  
AND SITE PREPARATION PLAN

SYMBOL	DATE	DESCRIPTION	APPROVED
A	2/19/10	PER OUTSIDE AGENCY COMMENTS	
DESIGNED BY	PS		
DRAWN BY	RF	SCALE 1"=40'	
CHECKED BY	PS	DATE 07/JUN/2010	

TOM BATES REGIONAL SPORTS CENTER  
GILMAN STREET AT FRONTAGE ROAD  
BERKELEY, CALIFORNIA

PLANS PREPARED FOR:  
CITY OF BERKELEY  
SITE PROJECT NUMBER:



EXISTING CONDITIONS PLAN

EXISTING CONDITIONS AND SITE PREPARATION NOTES:

- THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK SHOWN ON THESE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
- REMOVAL OF EXISTING PAVING AND CURBS SHALL INCLUDE ALL SUBBASE AND BASE ROCK REQUIRED TO INSTALL ITEMS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS. WHERE THE EXISTING PAVED AREA OCCURS IN AREAS TO BE PLANTED, THE EXISTING PAVING SUBBASE, AND BASEROCK SHALL BE COMPLETELY REMOVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING UTILITY BOXES, MANHOLES, ETC. AS NECESSARY TO MEET FINISH GRADES SHOWN ON THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF EXISTING MONUMENTS AT HIS OWN EXPENSE IF DISTURBED BY CONSTRUCTION. AUTHORIZED REPRESENTATIVES OF THE CITY OF BERKELEY AND THE EAST BAY REGIONAL PARK DISTRICT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.

EXISTING CONDITIONS AND SITE PREPARATION LEGEND:

- |  |   |  |   |
|--|---|--|---|
|  | EXISTING GRANULAR INFIELD MIX-REMOVE AND STOCKPILE ON-SITE FOR REUSE. SEE LEGEND ①  |  | LIMIT OF EXISTING CHAIN LINK FENCE TO REMAIN                                  |
|  | EXISTING PAVING TO BE SHATTERED AND LEFT IN PLACE PER SPECIFICATIONS  |  | EXTENT OF CHAIN LINK FENCE TO BE REMOVED                                      |
|  | EXISTING TOP OF BANK  |  | EXISTING 20 FOOT HEIGHT CHAIN LINK AND NET FENCE TO REMAIN                    |
|  | EXISTING VEGETATED ARE TO BE CLEARED AND GRUBBED  |  | EXISTING GATE TO BE RELOCATED PER SHEET 2.2                                   |
|  | EXISTING TRANSFORMER TO REMAIN  |  | EXISTING ELECTRICAL PANEL TO REMAIN   |
|  | SPRAY AND KILL WEEDS AND REMOVE FROM INFIELD MIX PRIOR TO STOCKPILING EXISTING GRANULAR INFIELD MATERIAL FOR RE-USE. ANY EXCESS GRANULAR MATERIAL NOT REQUIRED FOR THE CONSTRUCTION OF THE SOFTBALL FIELD INFIELD IS TO BE STOCKPILED IN THE UNDEVELOPED AREA TO THE NORTH OF THE INFIELD |  | EXISTING CHAIN LINK FENCE TO BE REMOVED                                       |
|  | EXISTING CHAIN LINK FENCE TO REMAIN   |  | EXISTING WOOD AND CONCRETE PILINGS ARE TO BE REMOVED AND DISPOSED OF OFF-SITE |
|  | EDGE OF EXISTING PAVING   |  |   |

CONTAMINATED SOIL MAP NOTES:

- AREAS OF SOIL IDENTIFIED AS POTENTIALLY CONTAMINATED ARE BASED UPON:
  - "ADDENDUM TO THE EASTSHORE STATE PARK REMEDIATION AND RISK MANAGEMENT PLAN - BERKELEY NORTH BASIN STRIP--II, DECEMBER 3, 2003", PREPARED BY ERLER & KALINOWSKI, INC. ("RRMP ADDENDUM.")
  - "RESULTS OF SOIL INVESTIGATION, GILMAN STREET SPORTS FIELDS, BERKELEY CALIFORNIA" DATED NOVEMBER 8, 2006 PREPARED BY FUGRO WEST, INC.
 ADDITIONAL RELEVANT SOILS AND GEOTECHNICAL DOCUMENTS INCLUDE:
  - "GEOTECHNICAL INVESTIGATION GILMAN STREET SPORTS FIELDS BERKELEY, CALIFORNIA" DATED JANUARY 13, 2006 PREPARED BY MILLER PACIFIC ENGINEERING GROUP
  - SOIL REPORT DESCRIBING THE EXISTING STOCKPILED FILL MATERIAL TITLED "SOIL ANALYSIS REPORT UNDERHILL PARKING AND FIELD REPLACEMENT CAPITAL PROJECTS REFERENCE NO. 12221A UNIVERSITY OF CALIFORNIA BERKELEY" DATED NOVEMBER 3, 2005 PREPARED BY MACTEC ENGINEERING AND CONSULTING.
 DOCUMENTS ARE AVAILABLE AT THE CITY OF BERKELEY PARKS AND WATERFRONT DEPARTMENT LOCATED IN CITY HALL.
- REFER TO SPECIFICATION SECTION 02110 FOR EXCAVATION PROCEDURES. REQUIRED FOR EXCAVATION WHERE THAT EXCAVATION IS TWO FEET BELOW EXISTING GRADE.

MONITORING AND ON-SITE DISTRIBUTION OR OFF SITE DISPOSAL OF HAZARDOUS MATERIALS.

SITE DEMOLITION, GENERAL EARTH WORK, EXCAVATION, AND TRENCHING OPERATION SHALL BE MONITORED BY SPECIAL INSPECTORS PROVIDED BY THE CITY OF BERKELEY. IN THE EVENT THAT THE INSPECTOR (PROVIDED BY THE CITY) DETERMINES, BY TESTING PROCEDURES, THAT HAZARDOUS MATERIALS ARE ENCOUNTERED, THE INSPECTOR WILL DIRECT THE CONTRACTOR TO FOLLOW THE PROCEDURES DESCRIBED IN SPECIFICATION SECTION 02110.

## CONDITIONS OF APPROVAL:

- A. Applicant must possess a City of Berkeley Business License. Contact (510) 981-7200.
- B. Call the Toxics Management Division (TMD) at (510) 981-7460 and schedule an inspection of the grout sealing of boreholes, probes, or wells. Notify TMD a minimum of two (2) working days in advance of first scheduled day of drilling (review City holidays and reduced service days at <http://ci.berkeley.ca.us/>). Failure to notify staff of cancellation or delays may result in the applicant being billed for mobilization time.
- C. All borings must be properly destroyed (grouted/sealed) within 24 hours of drilling, unless special conditions are approved beforehand in writing as part of this permit, and must be continuously protected and stabilized.
- D. Proper storage, labeling & disposal of investigation-derived residual wastes are the responsibility of the consultant unless stated otherwise contractually. Wastes must be removed from the site within 2 weeks of conclusion of the drilling.
- E. Analytical results of all soil, vapor, and groundwater samples collected during the execution of drilling under this permit must be submitted to Toxics Management Division within 60 days of sample collection.
- F. If your permit was for construction, alteration, or destruction of a water well, cathodic protection well, groundwater monitoring well, etc., you must file a report of completion within 60 days of the completion of the work through the Department of Water Resources Online System of Well Completion Reports (OSWCR), [https://civicnet.resources.ca.gov/DWR\\_WELLS/](https://civicnet.resources.ca.gov/DWR_WELLS/).
- G. A copy of the boring logs, well construction details, confirmation of submittal of the well completion report through OSWCR, and finalized as-built locations for all borings/wells (except geotechnical borings), must be submitted to TMD within 60 days of drilling/construction/destruction.
- H. Permit is valid for 120 days for the purpose specified herein. Construction aspects can be changed based on conditions encountered in the field. The permit is valid for only one TMD inspection.
- I. Wells installed under this permit may not be used for domestic, municipal, agricultural, or irrigation water supply.
- J. All work performed must conform to Business and Profession Codes and State Water Well Standards.
- K. The permit applicant and the property owner are required to ensure stormwater pollution prevention is implemented throughout the drilling process.
- L. Drilling company is required to contain all fluids and solids in compliance with stormwater pollution prevention rules. Any violation will lead to stop work, or cleanup order and potential enforcement.

## **Attachment B (Boring Logs)**



# TEST BORING REPORT

Boring No. SB-01

Project Tom Bates Sports Complex - Environmental Sampling, 400-408 Gilman St., Berkeley, CA  
Client City of Berkeley  
Contractor Confluence Technical Services, Inc.

File No. 0207599-001  
Sheet No. 1 of 2  
Start March 22, 2024  
Finish March 22, 2024  
Driller K. Lorenz  
H&A Rep. A. Cavenev

Type	Casing	Drilling Equipment and Procedures	Elevation
Outer Diameter (in.)	Hand Auger/Direct Push 4"/3.25 / 3.5"	Rig Make & Model: Truck DPT PID Make & Model: ppBRAE3000	NA
			Location
			See Figure 2

Depth (ft)	Recovery	PID (ppb)	Sample No.	Stratum Change Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION	Gravel			Sand			Field Test					
							% Coarse	% Fine		% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	Hand Auger			0.1	SP	-ASPHALTIC CONCRETE-												
1.0		463		1.0	CL	poorly-graded SAND with gravel, Black (2/1, 10YR) dry, no odor sandy lean CLAY with gravel, Black (2/1, 10YR), moist to wet, slight odor, mottled with very dusky red (25/2, 10R), soft to stiff At 2 ft, end of mottling	10	10			75	5						
3.0		572		3.0	CL	sandy lean CLAY, Gray (6/N, Gley 1) sandy lean CLAY, wet, slight petroleum-like odor, soft	10				35	55		N	M	M	M	
5.0		1320	SB-01-3	5.0	GC	clayey GRAVEL with sand, Black (2/1, 10YR), wet, petroleum-like odor, mottled with dark reddish brown (3/4, 5YR) from 5-5.3 ft, mps = 1.5"  At 6.5 ft, grass vegetation observed	45	10			15	30						
10.0		414		10.0	SM	silty SAND, Very dark gray (3/1, Gley 1), moist, petroleum-like odor at 10.4 ft, 4 inches of silty SAND with gravel, moist to wet, slight petroleum-like odor  At 15 ft, decrease in gravel		10			55	35						
15.0		193	SB-01-5															
16.5		970																
18.0			SB-01-10															
19.0																		
20.0			SB-01-15															

Water Level Data				Recovery		Well Diagram				Summary									
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			No Recovery	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Well Box	Native	DrySeal	Overburden (ft)	Rock Cored (ft)	Samples
			Bottom of Casing	Bottom of Hole	Water												Sample Collected	25.0	0.0

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**Note:** Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

WNC TEST BORA 2022-WELL R4B CAVENEV 0207599\_HA-LIB09\_WNC\_2\_GLB WNC BORING SPECIAL GDT \\HALEYALDRICH.COM\SHARE\GRANITE\2022\220960-TRANSYSYSTEMS-TOMBATESSPORTS-001\_TOMBATESSPORTS\COMPLEX.GPJ Apr 14, 24



# TEST BORING REPORT

**Boring No. SB-01**

File No. 0207599-001

Sheet No. 2 of 2

Apr 14, 24

WNC TEST BORA 2022-WELL R4B CAVENY 0207599\_HA-LIB09\_WNC\_2\_GLB WNC BORING SPECIAL GDT \\HALEYALDRICH.COM\SHARE\GRANITE\2022\220960-TRANSYSYSTEMS-TOMBATESSPORTS\COMPLEX.GPJ

Depth (ft)	Recovery	PID (ppb)	Sample No.	Stratum Change Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION	Gravel		Sand			Field Test				
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		404 134 279 357		22.0	CL	Brown (5/3, 10YR), lean CLAY, moist, no odor, stiff At 22.4 ft, color change to very dark grayish brown (3/2, 2.5Y)					5	95	N	M	M	M
25				25.0		<p style="text-align: center;">BOTTOM OF EXPLORATION 25.0 FT</p> <p>Note: Borehole tremie grouted upon completion. Note: 4-in. hand auger used for first 3 ft, 3.25-in. hand auger used from 3-5 ft bgs.</p>										

**Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.**

**Boring No. SB-01**

**TEST BORING REPORT**

**Boring No. SB-02**

Project Tom Bates Sports Complex - Environmental Sampling, 400-408 Gilman St., Berkeley, CA  
 Client City of Berkeley  
 Contractor Confluence Technical Services, Inc.

File No. 0207599-001  
 Sheet No. 1 of 1  
 Start March 22, 2024  
 Finish March 22, 2024  
 Driller K. Lorenz  
 H&A Rep. A. Cavenev

Type	Casing	Drilling Equipment and Procedures	Elevation
Outer Diameter (in.)	Hand Auger/Direct Push	Rig Make & Model: Truck DPT PID Make & Model: ppBRAE3000	NA
			Location
			See Figure 2

Depth (ft)	Recovery	PID (ppb)	Sample No.	Stratum Change Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION	Gravel			Sand			Field Test						
							% Coarse	% Fine		% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0				0.3	SC	-ASPHALTIC CONCRETE-													
196				1.0	CL	clayey SAND, Very dark grayish brown (3/2, 10YR), moist, slight organic odor	15			55		30							
201				1.5	CL	sandy lean CLAY, Olive brown (4/4, 25Y) mottled with light olive brown (5/6, 25Y), moist, no odor	5			20	15	60	N	L	M	L			
1207				3.0	SC	lean CLAY, very dark greenish gray (3/1, Gley 1), moist, organic odor					10	90	N	M	M	L			
1732				3.5	GM	At 2.5 ft, 1-in. fragments of brittle debris and brick fragments debris observed, petroleum-like odor	60				15	25							
1914						clayey SAND with gravel, Dark gray (4/1, 10YR), wet, strong petroleum-like odor, wood fragments, metal fragments, with white (8/ N, Gley 1), sticky substance	70				15	15							
281						silty GRAVEL with sand, Black (2/1, 10YR), wet with viscous black liquid, strong petroleum-like odor, mps = 2.0 in.													
5																			
10				10.0	SM	silty SAND, Very dark gray (3/1, Gley 1), wet, slight petroleum-like odor					55	45							
208						At 11.2 ft, 2 inches of silty SAND with gravel	15				50	30							
200																			
287																			
497																			
15				15.0		BOTTOM OF EXPLORATION 15.0 FT Note: Borehole tremie grouted upon completion.													

Water Level Data				Recovery		Well Diagram				Summary							
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	<input type="checkbox"/> No Recovery	<input type="checkbox"/> Recovery	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Seal	<input type="checkbox"/> Well Box	<input type="checkbox"/> Native	<input type="checkbox"/> DrySeal	Overburden (ft)	15.0
			Bottom of Casing	<input type="checkbox"/> Sample Collected												Rock Cored (ft)	0.0
			Bottom of Hole													Samples	4 [soil]
			Water													<b>Boring No.</b>	<b>SB-02</b>

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High  
 Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**Note:** Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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**TEST BORING REPORT**

**Boring No. SB-03**

Project Tom Bates Sports Complex - Environmental Sampling, 400-408 Gilman St., Berkeley, CA  
 Client City of Berkeley  
 Contractor Confluence Technical Services, Inc.

File No. 0207599-001  
 Sheet No. 1 of 1  
 Start March 22, 2024  
 Finish March 22, 2024  
 Driller K. Lorenz  
 H&A Rep. A. Caveney

Type		Casing	Drilling Equipment and Procedures	
Outer Diameter (in.)		Hand Auger	Rig Make & Model: Hand Auger	
		4"	PID Make & Model: ppBRAE3000	
				Elevation NA
				Datum
				Location See Figure 2

Depth (ft)	Recovery	PID (ppb)	Sample No.	Stratum Change Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION	Gravel		Sand			Field Test						
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	Hand Auger			0.2	SP	-ASPHALTIC CONCRETE-												
0		37		1.0	CL	Very dark gray (3/1, 10YR) silty SAND with gravel, dry, no odor	5		75	20								
0		23	SB-02-3			Brown (4/3, 10YR) sandy lean CLAY, dry to moist, slight organic odor	10		25	65	N	M	L-M	M				
0		75				At 2 ft, color change to black (2/1, 10YR)												
0		75				At 2.5 ft, mottled with dark yellowish brown (4/4, 10YR)												
0		125	SB-03-5			At 3 ft, color change to dark greenish gray (4/1, ??)												
0		172		5.0		At 4 ft, wood debris observed												
5						At 5 ft, black (2/1, 10YR) debris												
5						BOTTOM OF EXPLORATION 5.0 FT												
5						Note: Borehole backfilled with gravity pour grout upon completion.												

Water Level Data					Recovery		Well Diagram				Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			No Recovery	Riser Pipe	Well Box	Screen	Native	Filter Sand	DrySeal	Overburden (ft)	5.0
			Bottom of Casing	Bottom of Hole	Water									
						Sample Collected	Bentonite Seal					Samples	2	
												<b>Boring No.</b>	<b>SB-03</b>	

**Field Tests:** Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

**Note:** Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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## **Attachment C (Summary Table)**

**TABLE I  
SUMMARY OF ANALYTICAL RESULTS  
TOM BATES REGIONAL SPORTS COMPLEX  
400 GILMAN STREET  
BERKELEY, CALIFORNIA**

Location Sample Date Sample Type	Action Level				SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07
	Construction Worker ESL	TCLP-20x	STLC-10x	TTLIC	3/22/2024	3/22/2024	3/22/2024	3/27/2024	03/22/2024	3/22/2024	3/26/2024
					Primary	Primary	Primary	Primary	Primary	Primary	Primary
<b>Inorganic Compounds (mg/kg)</b>											
Antimony	50	--	150	500	< 13.7	< 14.2	< 14.5	< 10.2	< 12.8	< 11.6	< 10.1
Arsenic	0.98	100	50	500	<b>16.5</b>	<b>7.86</b>	<b>7.66</b>	<b>5.52</b>	<b>6.36</b>	<b>8.18</b>	<b>6.34</b>
Barium	3,000	2,000	1,000	10,000	<b>508</b>	<b>596</b>	<b>532</b>	<b>119</b>	<b>199</b>	<b>134</b>	<b>74.5</b>
Beryllium	27	--	7.5	75	< 0.684	< 0.709	< 0.724	< 0.508	< 0.641	< 0.582	< 0.503
Cadmium	51	20	10	100	<b>1.76</b>	<b>0.78</b>	<b>1.39</b>	< 0.508	< 0.641	< 0.582	< 0.503
Chromium	--	100	50	2,500	<b>152</b>	<b>159</b>	<b>44.7</b>	<b>34.8</b>	<b>47.2</b>	<b>52.6</b>	<b>31.3</b>
Cobalt	28	--	800	8,000	<b>19.7</b>	<b>6.49</b>	<b>10.3</b>	<b>9.57</b>	<b>12.6</b>	<b>12.1</b>	<b>7.0</b>
Copper	14,000	--	250	2,500	<b>103</b>	<b>360</b>	<b>52.0</b>	<b>26.9</b>	<b>35.4</b>	<b>19.8</b>	<b>20.6</b>
Lead	160	100	50	1,000	<b>579</b>	<b>224</b>	<b>264</b>	<b>42.7</b>	<b>62.0</b>	<b>12.7</b>	<b>25.0</b>
Mercury	44	4	2	20	< 0.112	<b>1.22</b>	<b>0.533</b>	<b>0.0893</b>	<b>0.230</b>	<b>0.0939</b>	<b>0.192</b>
Molybdenum	1,800	--	3,500	3,500	< 2.73	< 2.84	< 2.90	< 2.03	< 2.56	< 2.33	< 2.01
Nickel	86	--	200	2,000	<b>173</b>	<b>23.6</b>	<b>56.7</b>	<b>38.8</b>	<b>53.1</b>	<b>47.9</b>	<b>30.6</b>
Selenium	1,700	20	10	100	< 4.10	< 4.26	< 4.35	< 3.05	< 3.84	< 3.49	< 3.02
Silver	1,800	100	50	500	< 2.05	< 2.13	< 2.17	< 1.52	< 1.92	< 1.75	< 1.51
Thallium	3.5	--	70	700	< 13.7	< 14.2	< 14.5	< 10.2	< 12.8	< 11.6	< 10.1
Vanadium	470	--	240	2,400	<b>62.9</b>	<b>20.4</b>	<b>35.4</b>	<b>34.0</b>	<b>41.7</b>	<b>45.0</b>	<b>30.8</b>
Zinc	110,000	--	2,500	5,000	<b>634</b>	<b>859</b>	<b>509</b>	<b>103</b>	<b>120</b>	<b>44.8</b>	<b>51.8</b>
<b>Extraction Metals (mg/L)</b>											
Chromium STLC	--	--	5.0 <sup>a</sup>	--	< 1.0	<b>2.85</b>	--	--	--	< 1.0	--
Chromium TCLP	--	5.0 <sup>b</sup>	--	--	< 0.5	< 0.5	--	--	--	--	--
Copper STLC	--	--	25 <sup>a</sup>	--	--	< 1.0	--	--	--	--	--
Lead STLC	--	--	5.0 <sup>a</sup>	--	<b>21.3</b>	< 1.0	<b>6.96</b>	--	<b>2.29</b>	--	--
Lead TCLP	--	5.0 <sup>b</sup>	--	--	<b>0.94</b>	< 0.5	< 0.5	--	--	--	--
<b>Total Petroleum Hydrocarbons (mg/kg)</b>											
Total Petroleum Hydrocarbons (C10-C28) DRO	1,100	--	--	--	<b>210</b>	<b>69</b>	<b>120</b>	<b>34</b>	<b>48</b>	<b>8.1</b>	<b>14</b>
Total Petroleum Hydrocarbons (C17-C44) Motor Oil	54,000	--	--	--	<b>350</b>	<b>110</b>	<b>250</b>	<b>84</b>	<b>140</b>	< 28	<b>45</b>
<b>Total Petroleum Hydrocarbons (ug/kg)</b>											
Gasoline Range Organics	1,800,000	--	--	--	<b>210</b>	<b>620</b>	<b>240</b>	< 97	< 120	< 110	< 99
<b>Volatile Organic Compounds (ug/kg)</b>											
2-Butanone (Methyl Ethyl Ketone)	120,000,000	4,000,000	--	--	< 26	<b>29</b>	< 29	< 19	< 24	< 22	< 20
Acetone	270,000,000	--	--	--	<b>55</b>	<b>170</b>	<b>130</b>	< 19	< 24	< 22	< 20
Benzene	33,000	10,000	--	--	<b>6.2</b>	< 1.4	< 1.4	< 0.97	< 1.2	< 1.1	< 0.99

**Notes:**

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

Commercial/Industrial ESL = Commercial/Industrial Direct Exposure Environmental Screening Level (ESL) established by the San Francisco Bay Regional Water Quality Control Board, July 2019 (Rev. 2)

Construction Worker ESL = Construction Worker Direct Exposure ESL established by the San Francisco Bay Regional Water Quality Control Board, July 2019 (Rev. 2)

STLC = Soluble Threshold Limit Concentration

TTLC = Total Threshold Limit Concentrations

TCLP = Toxicity Characteristic Leaching Procedure

Highlighted concentration exceeds the construction worker ESL.

Highlighted concentration exceeds the STLC.

Highlighted concentration exceeds the TCLP.

Non-detects are reported to the laboratory reporting limit (< RL).

Detects are **bolded**.

a = value is STLC criteria for extraction metals in mg/L

b = value is TCLP criteria for extraction metals in mg/L

Analyses were completed using USEPA Method 6010B, 7471A, 8260B.

ESL for total chromium provided as chromium (III).

Only Volatile Organic Compounds that were detected are shown, see laboratory analytical reports in attachment D for the full list of volatile organic compounds analyzed.

## **Attachment D (Analytical Results)**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kevin Loeb  
Haley & Aldrich, Inc.  
2033 North Main Street  
Suite 309  
Walnut Creek, California 94596

Generated 4/9/2024 5:18:55 PM

## JOB DESCRIPTION

Tom Bates – Env. Sampling Berkeley

## JOB NUMBER

570-178097-1

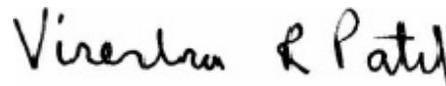
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## Job Notes

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## Definitions/Glossary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Haley & Aldrich, Inc.  
Project: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

Job ID: 570-178097-1

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## Job Narrative 570-178097-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 3/27/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

### GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-425723 and analytical batch 570-425661 were outside control limits: (570-178099-B-18-B MS) and (570-178099-B-18-C MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

### Diesel Range Organics

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

### Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-426377 and 570-426377 and analytical batch 570-426585 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-425879 and analytical batch 570-426219 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

### Organic Prep

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

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# Detection Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Client Sample ID: SB-04-3

## Lab Sample ID: 570-178097-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-04-5

## Lab Sample ID: 570-178097-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-07-3

## Lab Sample ID: 570-178097-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-07-5

## Lab Sample ID: 570-178097-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-04 COMPOSITE-1,2

## Lab Sample ID: 570-178097-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	34		5.1		mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C17-C44)	84		25		mg/Kg	1		8015B	Total/NA
Arsenic	5.52		3.05		mg/Kg	5		6010B	Total/NA
Barium	119		3.05		mg/Kg	5		6010B	Total/NA
Chromium	34.8		1.02		mg/Kg	5		6010B	Total/NA
Cobalt	9.57		1.02		mg/Kg	5		6010B	Total/NA
Copper	26.9		2.03		mg/Kg	5		6010B	Total/NA
Lead	42.7		2.03		mg/Kg	5		6010B	Total/NA
Nickel	38.8		2.03		mg/Kg	5		6010B	Total/NA
Vanadium	34.0		1.02		mg/Kg	5		6010B	Total/NA
Zinc	103		5.08		mg/Kg	5		6010B	Total/NA
Mercury	0.0893		0.0801		mg/Kg	1		7471A	Total/NA

## Client Sample ID: SB-07 COMPOSITE-3,4

## Lab Sample ID: 570-178097-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	14		4.8		mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C17-C44)	45		24		mg/Kg	1		8015B	Total/NA
Arsenic	6.34		3.02		mg/Kg	5		6010B	Total/NA
Barium	74.5		3.02		mg/Kg	5		6010B	Total/NA
Chromium	31.3		1.01		mg/Kg	5		6010B	Total/NA
Cobalt	7.00		1.01		mg/Kg	5		6010B	Total/NA
Copper	20.6		2.01		mg/Kg	5		6010B	Total/NA
Lead	25.0		2.01		mg/Kg	5		6010B	Total/NA
Nickel	30.6		2.01		mg/Kg	5		6010B	Total/NA
Vanadium	30.8		1.01		mg/Kg	5		6010B	Total/NA
Zinc	51.8		5.03		mg/Kg	5		6010B	Total/NA
Mercury	0.192		0.0772		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120				03/29/24 19:08	03/30/24 02:37	1

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120				03/29/24 19:08	03/30/24 02:58	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Lab Sample ID: 570-178097-5**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1,1-Trichloroethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1,2,2-Tetrachloroethane	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1,2-Trichloroethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1-Dichloroethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1-Dichloroethene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,1-Dichloropropene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2,3-Trichlorobenzene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2,3-Trichloropropane	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2,4-Trichlorobenzene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2,4-Trimethylbenzene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2-Dibromo-3-Chloropropane	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2-Dibromoethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2-Dichlorobenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2-Dichloroethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,2-Dichloropropane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,3,5-Trimethylbenzene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,3-Dichlorobenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,3-Dichloropropane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
1,4-Dichlorobenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
2,2-Dichloropropane	ND		4.8		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
2-Butanone (MEK)	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
2-Chlorotoluene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
2-Hexanone	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
4-Chlorotoluene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
4-Methyl-2-pentanone (MIBK)	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Acetone	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Benzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Bromobenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Bromochloromethane	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Bromodichloromethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Bromoform	ND		4.8		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Bromomethane	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
cis-1,2-Dichloroethene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
cis-1,3-Dichloropropene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Carbon disulfide	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Carbon tetrachloride	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Chlorobenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Chloroethane	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Chloroform	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Chloromethane	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Dibromochloromethane	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Dibromomethane	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Dichlorodifluoromethane	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Di-isopropyl ether (DIPE)	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Ethanol	ND		240		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Ethylbenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Ethyl-t-butyl ether (ETBE)	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Methylene Chloride	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Naphthalene	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
n-Butylbenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
N-Propylbenzene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
o-Xylene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
m,p-Xylene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
p-Isopropyltoluene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
sec-Butylbenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Styrene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
trans-1,2-Dichloroethene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
trans-1,3-Dichloropropene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Tert-amyl-methyl ether (TAME)	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
tert-Butyl alcohol (TBA)	ND		19		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
tert-Butylbenzene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Tetrachloroethene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Toluene	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Trichloroethene	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Trichlorofluoromethane	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Vinyl acetate	ND		9.7		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Vinyl chloride	ND		0.97		ug/Kg		03/29/24 19:08	03/30/24 02:37	1
Xylenes, Total	ND		1.9		ug/Kg		03/29/24 19:08	03/30/24 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		32 - 179	03/29/24 19:08	03/30/24 02:37	1
4-Bromofluorobenzene (Surr)	98		80 - 120	03/29/24 19:08	03/30/24 02:37	1
Dibromofluoromethane (Surr)	102		58 - 147	03/29/24 19:08	03/30/24 02:37	1
Toluene-d8 (Surr)	101		80 - 120	03/29/24 19:08	03/30/24 02:37	1

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1,1-Trichloroethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1,2-Trichloroethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1-Dichloroethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1-Dichloroethene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,1-Dichloropropene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2,3-Trichloropropane	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2-Dibromoethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2-Dichlorobenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,2-Dichloroethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Lab Sample ID: 570-178097-6**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,3-Dichlorobenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,3-Dichloropropane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
1,4-Dichlorobenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
2,2-Dichloropropane	ND		4.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
2-Butanone (MEK)	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
2-Chlorotoluene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
2-Hexanone	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
4-Chlorotoluene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
4-Methyl-2-pentanone (MIBK)	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Acetone	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Benzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Bromobenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Bromochloromethane	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Bromodichloromethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Bromoform	ND		4.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Bromomethane	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
cis-1,2-Dichloroethene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
cis-1,3-Dichloropropene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Carbon disulfide	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Carbon tetrachloride	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Chlorobenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Chloroethane	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Chloroform	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Chloromethane	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Dibromochloromethane	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Dibromomethane	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Dichlorodifluoromethane	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Di-isopropyl ether (DIPE)	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Ethanol	ND		250		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Ethylbenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Ethyl-t-butyl ether (ETBE)	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Isopropylbenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Methylene Chloride	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Naphthalene	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
n-Butylbenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
N-Propylbenzene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
o-Xylene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
m,p-Xylene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
p-Isopropyltoluene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
sec-Butylbenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Styrene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
trans-1,2-Dichloroethene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Tert-amyl-methyl ether (TAME)	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
tert-Butyl alcohol (TBA)	ND		20		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
tert-Butylbenzene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Lab Sample ID: 570-178097-6**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Toluene	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Trichloroethene	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Trichlorofluoromethane	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Vinyl acetate	ND		9.9		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Vinyl chloride	ND		0.99		ug/Kg		03/29/24 19:08	03/30/24 02:58	1
Xylenes, Total	ND		2.0		ug/Kg		03/29/24 19:08	03/30/24 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	107		32 - 179	03/29/24 19:08	03/30/24 02:58	1
<i>4-Bromofluorobenzene (Surr)</i>	96		80 - 120	03/29/24 19:08	03/30/24 02:58	1
<i>Dibromofluoromethane (Surr)</i>	100		58 - 147	03/29/24 19:08	03/30/24 02:58	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120	03/29/24 19:08	03/30/24 02:58	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34		5.1		mg/Kg		03/28/24 18:26	04/06/24 01:22	1
TPH as Motor Oil (C17-C44)	84		25		mg/Kg		03/28/24 18:26	04/06/24 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	94		60 - 138				03/28/24 18:26	04/06/24 01:22	1

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14		4.8		mg/Kg		03/28/24 18:26	04/09/24 02:49	1
TPH as Motor Oil (C17-C44)	45		24		mg/Kg		03/28/24 18:26	04/09/24 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	101		60 - 138				03/28/24 18:26	04/09/24 02:49	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 6010B - Metals (ICP)

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.2		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Arsenic</b>	<b>5.52</b>		3.05		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Barium</b>	<b>119</b>		3.05		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
Beryllium	ND		0.508		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
Cadmium	ND		0.508		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Chromium</b>	<b>34.8</b>		1.02		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Cobalt</b>	<b>9.57</b>		1.02		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Copper</b>	<b>26.9</b>		2.03		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Lead</b>	<b>42.7</b>		2.03		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
Molybdenum	ND		2.03		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Nickel</b>	<b>38.8</b>		2.03		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
Selenium	ND		3.05		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
Silver	ND		1.52		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
Thallium	ND		10.2		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Vanadium</b>	<b>34.0</b>		1.02		mg/Kg		04/02/24 07:15	04/04/24 18:20	5
<b>Zinc</b>	<b>103</b>		5.08		mg/Kg		04/02/24 07:15	04/04/24 18:20	5

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178097-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.1		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Arsenic</b>	<b>6.34</b>		3.02		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Barium</b>	<b>74.5</b>		3.02		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
Beryllium	ND		0.503		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
Cadmium	ND		0.503		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Chromium</b>	<b>31.3</b>		1.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Cobalt</b>	<b>7.00</b>		1.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Copper</b>	<b>20.6</b>		2.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Lead</b>	<b>25.0</b>		2.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
Molybdenum	ND		2.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Nickel</b>	<b>30.6</b>		2.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
Selenium	ND		3.02		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
Silver	ND		1.51		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
Thallium	ND		10.1		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Vanadium</b>	<b>30.8</b>		1.01		mg/Kg		04/02/24 07:15	04/04/24 18:30	5
<b>Zinc</b>	<b>51.8</b>		5.03		mg/Kg		04/02/24 07:15	04/04/24 18:30	5

# Client Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: SW846 7471A - Mercury (CVAA)

Client Sample ID: SB-04 COMPOSITE-1,2

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178097-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0893		0.0801		mg/Kg		03/30/24 12:45	04/01/24 16:07	1

Client Sample ID: SB-07 COMPOSITE-3,4

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178097-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.192		0.0772		mg/Kg		03/30/24 12:45	04/01/24 16:09	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: Composite - Sample Compositing

Client Sample ID: SB-04-3  
Date Collected: 03/22/24 00:00  
Date Received: 03/27/24 10:00

Lab Sample ID: 570-178097-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 12:45	1

Client Sample ID: SB-04-5  
Date Collected: 03/22/24 00:00  
Date Received: 03/27/24 10:00

Lab Sample ID: 570-178097-2  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 12:45	1

Client Sample ID: SB-07-3  
Date Collected: 03/22/24 00:00  
Date Received: 03/27/24 10:00

Lab Sample ID: 570-178097-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 12:45	1

Client Sample ID: SB-07-5  
Date Collected: 03/22/24 00:00  
Date Received: 03/27/24 10:00

Lab Sample ID: 570-178097-4  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 12:45	1

# Surrogate Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (32-179)	BFB (80-120)	DBFM (58-147)	TOL (80-120)
570-178097-5	SB-04 COMPOSITE-1,2	104	98	102	101
570-178097-6	SB-07 COMPOSITE-3,4	107	96	100	100
LCS 570-425723/1-A	Lab Control Sample	98	96	101	98
LCSD 570-425723/2-A	Lab Control Sample Dup	95	100	94	98
MB 570-425723/5-A	Method Blank	97	97	97	102

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TOL (80-120)
570-178097-5	SB-04 COMPOSITE-1,2	99
570-178097-6	SB-07 COMPOSITE-3,4	98
LCS 570-425723/3-A	Lab Control Sample	96
LCSD 570-425723/4-A	Lab Control Sample Dup	96
MB 570-425723/5-A	Method Blank	99

**Surrogate Legend**

TOL = Toluene-d8 (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-138)
570-178097-5	SB-04 COMPOSITE-1,2	94
570-178097-5 MS	SB-04 COMPOSITE-1,2	90
570-178097-5 MS	SB-04 COMPOSITE-1,2	93
570-178097-5 MSD	SB-04 COMPOSITE-1,2	91
570-178097-5 MSD	SB-04 COMPOSITE-1,2	83
570-178097-6	SB-07 COMPOSITE-3,4	101
LCS 570-425301/2-A	Lab Control Sample	91
LCS 570-425301/6-A	Lab Control Sample	95
LCSD 570-425301/3-A	Lab Control Sample Dup	91
LCSD 570-425301/7-A	Lab Control Sample Dup	94
MB 570-425301/1-A	Method Blank	103

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-425723/5-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 425723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1-Dichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1-Dichloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1-Dichloropropene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,3-Trichloropropane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dibromoethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dichloropropane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,3-Dichloropropane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2,2-Dichloropropane	ND		5.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2-Butanone (MEK)	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2-Chlorotoluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2-Hexanone	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
4-Chlorotoluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
4-Methyl-2-pentanone (MIBK)	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Acetone	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Benzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromochloromethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromodichloromethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromoform	ND		5.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromomethane	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Carbon disulfide	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Carbon tetrachloride	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chloroethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chloroform	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chloromethane	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Dibromochloromethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Dibromomethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Dichlorodifluoromethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Di-isopropyl ether (DIPE)	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Ethanol	ND		250		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Ethylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-425723/5-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 425723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethyl-t-butyl ether (ETBE)	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Isopropylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Methylene Chloride	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Naphthalene	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
n-Butylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
N-Propylbenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
o-Xylene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
m,p-Xylene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
p-Isopropyltoluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
sec-Butylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Styrene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Tert-amyl-methyl ether (TAME)	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
tert-Butyl alcohol (TBA)	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
tert-Butylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Tetrachloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Toluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Trichloroethene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Trichlorofluoromethane	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Vinyl acetate	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Vinyl chloride	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Xylenes, Total	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		32 - 179	03/29/24 17:40	03/29/24 21:39	1
4-Bromofluorobenzene (Surr)	97		80 - 120	03/29/24 17:40	03/29/24 21:39	1
Dibromofluoromethane (Surr)	97		58 - 147	03/29/24 17:40	03/29/24 21:39	1
Toluene-d8 (Surr)	102		80 - 120	03/29/24 17:40	03/29/24 21:39	1

Lab Sample ID: LCS 570-425723/1-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	50.29		ug/Kg		101	80 - 125
1,1,1,1-Trichloroethane	50.0	48.08		ug/Kg		96	78 - 130
1,1,1,2-Tetrachloroethane	50.0	53.58		ug/Kg		107	80 - 124
1,1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.21		ug/Kg		100	73 - 130
1,1,1,2-Trichloroethane	50.0	52.12		ug/Kg		104	80 - 123
1,1-Dichloroethane	50.0	49.08		ug/Kg		98	79 - 124
1,1-Dichloroethene	50.0	48.92		ug/Kg		98	74 - 132
1,1-Dichloropropene	50.0	48.70		ug/Kg		97	78 - 130
1,2,3-Trichlorobenzene	50.0	52.70		ug/Kg		105	80 - 123
1,2,3-Trichloropropane	50.0	45.96		ug/Kg		92	79 - 120
1,2,4-Trichlorobenzene	50.0	54.47		ug/Kg		109	80 - 125
1,2,4-Trimethylbenzene	50.0	49.82		ug/Kg		100	80 - 124

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-425723/1-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,2-Dibromo-3-Chloropropane	50.0	46.42		ug/Kg		93	67 - 120
1,2-Dibromoethane	50.0	48.42		ug/Kg		97	80 - 120
1,2-Dichlorobenzene	50.0	51.28		ug/Kg		103	80 - 120
1,2-Dichloroethane	50.0	46.78		ug/Kg		94	77 - 120
1,2-Dichloropropane	50.0	47.52		ug/Kg		95	80 - 126
1,3,5-Trimethylbenzene	50.0	49.57		ug/Kg		99	80 - 121
1,3-Dichlorobenzene	50.0	51.80		ug/Kg		104	80 - 120
1,3-Dichloropropane	50.0	50.92		ug/Kg		102	80 - 120
1,4-Dichlorobenzene	50.0	50.07		ug/Kg		100	80 - 120
2,2-Dichloropropane	50.0	49.29		ug/Kg		99	73 - 135
2-Butanone (MEK)	50.0	45.50		ug/Kg		91	67 - 136
2-Chlorotoluene	50.0	49.03		ug/Kg		98	80 - 120
2-Hexanone	50.0	50.44		ug/Kg		101	70 - 137
4-Chlorotoluene	50.0	49.76		ug/Kg		100	80 - 121
4-Methyl-2-pentanone (MIBK)	50.0	47.13		ug/Kg		94	74 - 124
Acetone	50.0	48.19		ug/Kg		96	61 - 142
Benzene	50.0	47.48		ug/Kg		95	80 - 120
Bromobenzene	50.0	51.08		ug/Kg		102	80 - 120
Bromochloromethane	50.0	49.91		ug/Kg		100	80 - 120
Bromodichloromethane	50.0	47.83		ug/Kg		96	80 - 125
Bromoform	50.0	51.02		ug/Kg		102	74 - 138
Bromomethane	50.0	51.95		ug/Kg		104	58 - 136
cis-1,2-Dichloroethane	50.0	51.23		ug/Kg		102	80 - 124
cis-1,3-Dichloropropene	50.0	47.80		ug/Kg		96	80 - 123
Carbon disulfide	50.0	46.67		ug/Kg		93	68 - 128
Carbon tetrachloride	50.0	49.57		ug/Kg		99	75 - 140
Chlorobenzene	50.0	50.33		ug/Kg		101	80 - 120
Chloroethane	50.0	53.27		ug/Kg		107	76 - 137
Chloroform	50.0	48.95		ug/Kg		98	80 - 121
Chloromethane	50.0	48.69		ug/Kg		97	74 - 133
Dibromochloromethane	50.0	51.23		ug/Kg		102	80 - 132
Dibromomethane	50.0	47.82		ug/Kg		96	80 - 120
Dichlorodifluoromethane	50.0	47.43		ug/Kg		95	63 - 146
Di-isopropyl ether (DIPE)	50.0	48.86		ug/Kg		98	73 - 132
Ethanol	500	476.2		ug/Kg		95	46 - 159
Ethylbenzene	50.0	48.77		ug/Kg		98	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	49.58		ug/Kg		99	77 - 129
Isopropylbenzene	50.0	51.80		ug/Kg		104	80 - 122
Methylene Chloride	50.0	48.05		ug/Kg		96	74 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	48.12		ug/Kg		96	79 - 123
Naphthalene	50.0	50.89		ug/Kg		102	79 - 121
n-Butylbenzene	50.0	51.31		ug/Kg		103	79 - 131
N-Propylbenzene	50.0	50.10		ug/Kg		100	80 - 122
o-Xylene	50.0	47.87		ug/Kg		96	80 - 120
m,p-Xylene	100	96.29		ug/Kg		96	80 - 120
p-Isopropyltoluene	50.0	49.28		ug/Kg		99	80 - 126
sec-Butylbenzene	50.0	49.79		ug/Kg		100	80 - 125
Styrene	50.0	49.63		ug/Kg		99	80 - 120
trans-1,2-Dichloroethene	50.0	50.04		ug/Kg		100	75 - 123

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-425723/1-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
trans-1,3-Dichloropropene	50.0	48.99		ug/Kg		98	80 - 124
Tert-amyl-methyl ether (TAME)	50.0	47.02		ug/Kg		94	80 - 120
tert-Butyl alcohol (TBA)	250	248.0		ug/Kg		99	74 - 123
tert-Butylbenzene	50.0	50.43		ug/Kg		101	80 - 124
Tetrachloroethene	50.0	49.75		ug/Kg		99	80 - 122
Toluene	50.0	48.23		ug/Kg		96	80 - 120
Trichloroethene	50.0	49.25		ug/Kg		99	80 - 127
Trichlorofluoromethane	50.0	52.62		ug/Kg		105	70 - 144
Vinyl acetate	50.0	49.05		ug/Kg		98	71 - 125
Vinyl chloride	50.0	51.74		ug/Kg		103	79 - 133

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		32 - 179
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	101		58 - 147
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 570-425723/2-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	Limit
1,1,1,2-Tetrachloroethane	50.0	48.19		ug/Kg		96	80 - 125	4	20
1,1,1-Trichloroethane	50.0	46.74		ug/Kg		93	78 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	50.64		ug/Kg		101	80 - 124	6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.82		ug/Kg		102	73 - 130	1	20
1,1,2-Trichloroethane	50.0	47.93		ug/Kg		96	80 - 123	8	20
1,1-Dichloroethane	50.0	46.62		ug/Kg		93	79 - 124	5	20
1,1-Dichloroethene	50.0	46.39		ug/Kg		93	74 - 132	5	20
1,1-Dichloropropene	50.0	48.24		ug/Kg		96	78 - 130	1	20
1,2,3-Trichlorobenzene	50.0	48.29		ug/Kg		97	80 - 123	9	20
1,2,3-Trichloropropane	50.0	45.39		ug/Kg		91	79 - 120	1	20
1,2,4-Trichlorobenzene	50.0	49.96		ug/Kg		100	80 - 125	9	20
1,2,4-Trimethylbenzene	50.0	47.35		ug/Kg		95	80 - 124	5	20
1,2-Dibromo-3-Chloropropane	50.0	43.30		ug/Kg		87	67 - 120	7	20
1,2-Dibromoethane	50.0	46.46		ug/Kg		93	80 - 120	4	20
1,2-Dichlorobenzene	50.0	47.78		ug/Kg		96	80 - 120	7	20
1,2-Dichloroethane	50.0	46.87		ug/Kg		94	77 - 120	0	20
1,2-Dichloropropane	50.0	47.70		ug/Kg		95	80 - 126	0	20
1,3,5-Trimethylbenzene	50.0	47.95		ug/Kg		96	80 - 121	3	20
1,3-Dichlorobenzene	50.0	49.42		ug/Kg		99	80 - 120	5	20
1,3-Dichloropropane	50.0	48.74		ug/Kg		97	80 - 120	4	20
1,4-Dichlorobenzene	50.0	47.94		ug/Kg		96	80 - 120	4	20
2,2-Dichloropropane	50.0	48.40		ug/Kg		97	73 - 135	2	20
2-Butanone (MEK)	50.0	41.45		ug/Kg		83	67 - 136	9	20
2-Chlorotoluene	50.0	47.48		ug/Kg		95	80 - 120	3	20
2-Hexanone	50.0	44.00		ug/Kg		88	70 - 137	14	20
4-Chlorotoluene	50.0	48.50		ug/Kg		97	80 - 121	3	20

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-425723/2-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
4-Methyl-2-pentanone (MIBK)	50.0	46.36		ug/Kg		93	74 - 124	2	20	
Acetone	50.0	48.91		ug/Kg		98	61 - 142	1	23	
Benzene	50.0	46.14		ug/Kg		92	80 - 120	3	20	
Bromobenzene	50.0	48.39		ug/Kg		97	80 - 120	5	20	
Bromochloromethane	50.0	48.97		ug/Kg		98	80 - 120	2	20	
Bromodichloromethane	50.0	48.77		ug/Kg		98	80 - 125	2	20	
Bromoform	50.0	46.49		ug/Kg		93	74 - 138	9	20	
Bromomethane	50.0	51.33		ug/Kg		103	58 - 136	1	20	
cis-1,2-Dichloroethene	50.0	47.74		ug/Kg		95	80 - 124	7	20	
cis-1,3-Dichloropropene	50.0	46.61		ug/Kg		93	80 - 123	3	20	
Carbon disulfide	50.0	45.82		ug/Kg		92	68 - 128	2	20	
Carbon tetrachloride	50.0	46.92		ug/Kg		94	75 - 140	5	20	
Chlorobenzene	50.0	48.01		ug/Kg		96	80 - 120	5	20	
Chloroethane	50.0	50.76		ug/Kg		102	76 - 137	5	20	
Chloroform	50.0	45.27		ug/Kg		91	80 - 121	8	20	
Chloromethane	50.0	47.43		ug/Kg		95	74 - 133	3	20	
Dibromochloromethane	50.0	49.19		ug/Kg		98	80 - 132	4	20	
Dibromomethane	50.0	47.95		ug/Kg		96	80 - 120	0	20	
Dichlorodifluoromethane	50.0	46.81		ug/Kg		94	63 - 146	1	20	
Di-isopropyl ether (DIPE)	50.0	46.21		ug/Kg		92	73 - 132	6	20	
Ethanol	500	464.3		ug/Kg		93	46 - 159	3	30	
Ethylbenzene	50.0	47.54		ug/Kg		95	80 - 120	3	20	
Ethyl-t-butyl ether (ETBE)	50.0	46.94		ug/Kg		94	77 - 129	5	20	
Isopropylbenzene	50.0	51.02		ug/Kg		102	80 - 122	2	20	
Methylene Chloride	50.0	44.94		ug/Kg		90	74 - 120	7	20	
Methyl-t-Butyl Ether (MTBE)	50.0	46.75		ug/Kg		94	79 - 123	3	20	
Naphthalene	50.0	47.30		ug/Kg		95	79 - 121	7	20	
n-Butylbenzene	50.0	48.88		ug/Kg		98	79 - 131	5	20	
N-Propylbenzene	50.0	47.74		ug/Kg		95	80 - 122	5	20	
o-Xylene	50.0	46.89		ug/Kg		94	80 - 120	2	20	
m,p-Xylene	100	94.62		ug/Kg		95	80 - 120	2	20	
p-Isopropyltoluene	50.0	46.56		ug/Kg		93	80 - 126	6	20	
sec-Butylbenzene	50.0	48.28		ug/Kg		97	80 - 125	3	20	
Styrene	50.0	48.69		ug/Kg		97	80 - 120	2	20	
trans-1,2-Dichloroethene	50.0	48.80		ug/Kg		98	75 - 123	3	20	
trans-1,3-Dichloropropene	50.0	48.06		ug/Kg		96	80 - 124	2	20	
Tert-amyl-methyl ether (TAME)	50.0	46.77		ug/Kg		94	80 - 120	1	20	
tert-Butyl alcohol (TBA)	250	238.0		ug/Kg		95	74 - 123	4	20	
tert-Butylbenzene	50.0	48.68		ug/Kg		97	80 - 124	4	20	
Tetrachloroethene	50.0	48.00		ug/Kg		96	80 - 122	4	20	
Toluene	50.0	47.24		ug/Kg		94	80 - 120	2	20	
Trichloroethene	50.0	48.93		ug/Kg		98	80 - 127	1	20	
Trichlorofluoromethane	50.0	52.49		ug/Kg		105	70 - 144	0	20	
Vinyl acetate	50.0	48.19		ug/Kg		96	71 - 125	2	20	
Vinyl chloride	50.0	50.69		ug/Kg		101	79 - 133	2	20	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	95		32 - 179

# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-425723/2-A  
Matrix: Solid  
Analysis Batch: 425661

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 425723

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	94		58 - 147
Toluene-d8 (Surr)	98		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 570-425723/5-A  
Matrix: Solid  
Analysis Batch: 425663

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 425723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics	ND		100		ug/Kg		03/29/24 17:40	03/29/24 21:39	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		80 - 120	03/29/24 17:40	03/29/24 21:39	1

Lab Sample ID: LCS 570-425723/3-A  
Matrix: Solid  
Analysis Batch: 425663

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 425723

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
TPPH	1000	1083		ug/Kg		108	65 - 135

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: LCSD 570-425723/4-A  
Matrix: Solid  
Analysis Batch: 425663

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 425723

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
TPPH	1000	1042		ug/Kg		104	65 - 135	4	30

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		80 - 120

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-425301/1-A  
Matrix: Solid  
Analysis Batch: 427556

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 425301

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		5.0		mg/Kg		03/28/24 18:26	04/05/24 21:19	1
TPH as Motor Oil (C17-C44)	ND		25		mg/Kg		03/28/24 18:26	04/05/24 21:19	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
n-Octacosane (Surr)	103		60 - 138	03/28/24 18:26	04/05/24 21:19	1

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: LCS 570-425301/2-A**

**Matrix: Solid**

**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 425301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	400	421.3		mg/Kg		105	80 - 130
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
<i>n-Octacosane (Surr)</i>		91					60 - 138

**Lab Sample ID: LCS 570-425301/6-A**

**Matrix: Solid**

**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 425301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH as Motor Oil (C17-C44)	400	417.2		mg/Kg		104	77 - 125
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
<i>n-Octacosane (Surr)</i>		95					60 - 138

**Lab Sample ID: LCSD 570-425301/3-A**

**Matrix: Solid**

**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 425301**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	412.6		mg/Kg		103	80 - 130	2	20
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
<i>n-Octacosane (Surr)</i>		91					60 - 138		

**Lab Sample ID: LCSD 570-425301/7-A**

**Matrix: Solid**

**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 425301**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	423.0		mg/Kg		106	77 - 125	1	20
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
<i>n-Octacosane (Surr)</i>		94					60 - 138		

**Lab Sample ID: 570-178097-5 MS**

**Matrix: Solid**

**Analysis Batch: 427556**

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Prep Type: Total/NA**

**Prep Batch: 425301**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	34		401	423.6		mg/Kg		97	43 - 165
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
<i>n-Octacosane (Surr)</i>		90							60 - 138

# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-178097-5 MS

Matrix: Solid

Analysis Batch: 427556

Client Sample ID: SB-04 COMPOSITE-1,2

Prep Type: Total/NA

Prep Batch: 425301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
TPH as Motor Oil (C17-C44)	84		387	454.2		mg/Kg		96	44 - 161	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>							
<i>n-Octacosane (Surr)</i>	93		60 - 138							

Lab Sample ID: 570-178097-5 MSD

Matrix: Solid

Analysis Batch: 427556

Client Sample ID: SB-04 COMPOSITE-1,2

Prep Type: Total/NA

Prep Batch: 425301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	34		389	401.4		mg/Kg		94	43 - 165	5	35
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	91		60 - 138								

Lab Sample ID: 570-178097-5 MSD

Matrix: Solid

Analysis Batch: 427556

Client Sample ID: SB-04 COMPOSITE-1,2

Prep Type: Total/NA

Prep Batch: 425301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	84		390	413.9		mg/Kg		85	44 - 161	9	37
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	83		60 - 138								

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-426377/1-B ^5

Matrix: Solid

Analysis Batch: 426585

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 426377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.1		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Arsenic	ND		3.02		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Barium	ND		3.02		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Beryllium	ND		0.503		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Cadmium	ND		0.503		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Chromium	ND		1.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Cobalt	ND		1.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Copper	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Lead	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Molybdenum	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Nickel	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Selenium	ND		3.02		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Silver	ND		1.51		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Thallium	ND		10.1		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Vanadium	ND		1.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 570-426377/1-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 426585**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 426377**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		5.03		mg/Kg		04/02/24 06:45	04/02/24 14:33	5

**Lab Sample ID: LCS 570-426377/2-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 426585**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 426377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	49.8	42.39		mg/Kg		85	80 - 120
Arsenic	49.8	43.47		mg/Kg		87	80 - 120
Barium	49.8	44.65		mg/Kg		90	80 - 120
Beryllium	49.8	44.39		mg/Kg		89	80 - 120
Cadmium	49.8	44.56		mg/Kg		90	80 - 120
Chromium	49.8	44.85		mg/Kg		90	80 - 120
Cobalt	49.8	45.25		mg/Kg		91	80 - 120
Copper	49.8	44.96		mg/Kg		90	80 - 120
Lead	49.8	45.20		mg/Kg		91	80 - 120
Molybdenum	49.8	44.23		mg/Kg		89	80 - 120
Nickel	49.8	45.11		mg/Kg		91	80 - 120
Selenium	49.8	44.37		mg/Kg		89	80 - 120
Silver	24.9	22.36		mg/Kg		90	80 - 120
Thallium	49.8	43.68		mg/Kg		88	80 - 120
Vanadium	49.8	44.49		mg/Kg		89	80 - 120
Zinc	49.8	44.50		mg/Kg		89	80 - 120

**Lab Sample ID: LCSD 570-426377/3-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 426585**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 426377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	49.8	42.41		mg/Kg		85	80 - 120	0	20
Arsenic	49.8	43.46		mg/Kg		87	80 - 120	0	20
Barium	49.8	44.55		mg/Kg		90	80 - 120	0	20
Beryllium	49.8	44.24		mg/Kg		89	80 - 120	0	20
Cadmium	49.8	44.04		mg/Kg		89	80 - 120	1	20
Chromium	49.8	44.75		mg/Kg		90	80 - 120	0	20
Cobalt	49.8	44.51		mg/Kg		89	80 - 120	2	20
Copper	49.8	44.64		mg/Kg		90	80 - 120	1	20
Lead	49.8	44.54		mg/Kg		90	80 - 120	1	20
Molybdenum	49.8	44.27		mg/Kg		89	80 - 120	0	20
Nickel	49.8	45.11		mg/Kg		91	80 - 120	0	20
Selenium	49.8	42.91		mg/Kg		86	80 - 120	3	20
Silver	24.9	22.30		mg/Kg		90	80 - 120	0	20
Thallium	49.8	43.46		mg/Kg		87	80 - 120	1	20
Vanadium	49.8	44.32		mg/Kg		89	80 - 120	0	20
Zinc	49.8	43.97		mg/Kg		88	80 - 120	1	20

# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-425879/1-A**  
**Matrix: Solid**  
**Analysis Batch: 426219**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 425879**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833		mg/Kg		03/30/24 12:45	04/01/24 15:30	1

**Lab Sample ID: LCS 570-425879/2-A**  
**Matrix: Solid**  
**Analysis Batch: 426219**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 425879**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.377	0.3650		mg/Kg		97	80 - 120

**Lab Sample ID: LCSD 570-425879/3-A**  
**Matrix: Solid**  
**Analysis Batch: 426219**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 425879**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.408	0.3795		mg/Kg		93	80 - 120	4	10

# QC Association Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## GC/MS VOA

### Analysis Batch: 425661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	8260B	425723
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	8260B	425723
MB 570-425723/5-A	Method Blank	Total/NA	Solid	8260B	425723
LCS 570-425723/1-A	Lab Control Sample	Total/NA	Solid	8260B	425723
LCSD 570-425723/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	425723

### Analysis Batch: 425663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	8260B/CA_LUFT MS	425723
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	8260B/CA_LUFT MS	425723
MB 570-425723/5-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	425723
LCS 570-425723/3-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	425723
LCSD 570-425723/4-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	425723

### Prep Batch: 425723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	5030C	
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	5030C	
MB 570-425723/5-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-425723/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 570-425723/3-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-425723/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
LCSD 570-425723/4-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

## GC Semi VOA

### Prep Batch: 425301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	3550C	
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	3550C	
MB 570-425301/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-425301/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 570-425301/6-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-425301/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 570-425301/7-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-178097-5 MS	SB-04 COMPOSITE-1,2	Total/NA	Solid	3550C	
570-178097-5 MS	SB-04 COMPOSITE-1,2	Total/NA	Solid	3550C	
570-178097-5 MSD	SB-04 COMPOSITE-1,2	Total/NA	Solid	3550C	
570-178097-5 MSD	SB-04 COMPOSITE-1,2	Total/NA	Solid	3550C	

### Analysis Batch: 427556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	8015B	425301
MB 570-425301/1-A	Method Blank	Total/NA	Solid	8015B	425301
LCS 570-425301/2-A	Lab Control Sample	Total/NA	Solid	8015B	425301
LCS 570-425301/6-A	Lab Control Sample	Total/NA	Solid	8015B	425301
LCSD 570-425301/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	425301
LCSD 570-425301/7-A	Lab Control Sample Dup	Total/NA	Solid	8015B	425301

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# QC Association Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## GC Semi VOA (Continued)

### Analysis Batch: 427556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5 MS	SB-04 COMPOSITE-1,2	Total/NA	Solid	8015B	425301
570-178097-5 MS	SB-04 COMPOSITE-1,2	Total/NA	Solid	8015B	425301
570-178097-5 MSD	SB-04 COMPOSITE-1,2	Total/NA	Solid	8015B	425301
570-178097-5 MSD	SB-04 COMPOSITE-1,2	Total/NA	Solid	8015B	425301

### Analysis Batch: 428246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	8015B	425301

## Metals

### Prep Batch: 425879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	7471A	
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	7471A	
MB 570-425879/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-425879/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-425879/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

### Analysis Batch: 426219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	7471A	425879
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	7471A	425879
MB 570-425879/1-A	Method Blank	Total/NA	Solid	7471A	425879
LCS 570-425879/2-A	Lab Control Sample	Total/NA	Solid	7471A	425879
LCSD 570-425879/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	425879

### Prep Batch: 426377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	3050B	
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	3050B	
MB 570-426377/1-B ^5	Method Blank	Total/NA	Solid	3050B	
LCS 570-426377/2-B ^5	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-426377/3-B ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	

### Analysis Batch: 426585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-426377/1-B ^5	Method Blank	Total/NA	Solid	6010B	426377
LCS 570-426377/2-B ^5	Lab Control Sample	Total/NA	Solid	6010B	426377
LCSD 570-426377/3-B ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	426377

### Analysis Batch: 427509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-5	SB-04 COMPOSITE-1,2	Total/NA	Solid	6010B	426377
570-178097-6	SB-07 COMPOSITE-3,4	Total/NA	Solid	6010B	426377

## Organic Prep

### Analysis Batch: 425566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-1	SB-04-3	Total/NA	Solid	Composite	
570-178097-2	SB-04-5	Total/NA	Solid	Composite	

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# QC Association Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Organic Prep (Continued)

### Analysis Batch: 425566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178097-3	SB-07-3	Total/NA	Solid	Composite	
570-178097-4	SB-07-5	Total/NA	Solid	Composite	

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# Lab Chronicle

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

**Client Sample ID: SB-04-3**

**Lab Sample ID: 570-178097-1**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425566	03/29/24 12:45	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

**Client Sample ID: SB-04-5**

**Lab Sample ID: 570-178097-2**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425566	03/29/24 12:45	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

**Client Sample ID: SB-07-3**

**Lab Sample ID: 570-178097-3**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425566	03/29/24 12:45	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

**Client Sample ID: SB-07-5**

**Lab Sample ID: 570-178097-4**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425566	03/29/24 12:45	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Lab Sample ID: 570-178097-5**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.16 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/30/24 02:37	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.16 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	5 mL	425663	03/30/24 02:37	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			9.86 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	427556	04/06/24 01:22	N5Y3	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			1.97 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:20	P1R	EET CAL 4
Instrument ID: ICP11										

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

**Client Sample ID: SB-04 COMPOSITE-1,2**

**Lab Sample ID: 570-178097-5**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.52 g	50 mL	425879	03/30/24 12:45	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 16:07	ECX6	EET CAL 4
Instrument ID: HG7										

**Client Sample ID: SB-07 COMPOSITE-3,4**

**Lab Sample ID: 570-178097-6**

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.06 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/30/24 02:58	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.06 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 g	5 mL	425663	03/30/24 02:58	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			10.48 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	428246	04/09/24 02:49	SP9M	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			1.99 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:30	P1R	EET CAL 4
Instrument ID: ICP11										
Total/NA	Prep	7471A			0.54 g	50 mL	425879	03/30/24 12:45	VCN7	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 16:09	ECX6	EET CAL 4
Instrument ID: HG7										

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
8260B	5030C	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5030C	Solid	1,1-Dichloropropene
8260B	5030C	Solid	1,2,3-Trichlorobenzene
8260B	5030C	Solid	1,2,4-Trimethylbenzene
8260B	5030C	Solid	1,3,5-Trimethylbenzene
8260B	5030C	Solid	1,3-Dichloropropane
8260B	5030C	Solid	2,2-Dichloropropane
8260B	5030C	Solid	2-Butanone (MEK)
8260B	5030C	Solid	2-Chlorotoluene
8260B	5030C	Solid	2-Hexanone
8260B	5030C	Solid	Acetone
8260B	5030C	Solid	Ethanol
8260B	5030C	Solid	Isopropylbenzene
8260B	5030C	Solid	p-Isopropyltoluene
8260B	5030C	Solid	Vinyl acetate
Composite		Solid	Composited

# Method Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
Composite	Sample Compositing	None	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

**Protocol References:**

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178097-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-178097-1	SB-04-3	Solid	03/22/24 00:00	03/27/24 10:00
570-178097-2	SB-04-5	Solid	03/22/24 00:00	03/27/24 10:00
570-178097-3	SB-07-3	Solid	03/22/24 00:00	03/27/24 10:00
570-178097-4	SB-07-5	Solid	03/22/24 00:00	03/27/24 10:00
570-178097-5	SB-04 COMPOSITE-1,2	Solid	03/22/24 00:00	03/27/24 10:00
570-178097-6	SB-07 COMPOSITE-3,4	Solid	03/22/24 00:00	03/27/24 10:00

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Regulatory Program  DW  NPDES  RCRA  Other

Euroms Environment Testing

Euroms' services under this CoC shall be performed in accordance with the T&Cs within Blanket Service Agreement# 2022-24 by and between Haley & Aldrich Inc. its subsidiaries and affiliates and Euroms Northern California, LLC and its named affiliates Euroms Environment Testing Northeast, LLC Euroms Environment Testing North Central LLC and Euroms Environment Testing Southwest, LLC

<b>Client Contact</b> Haley & Aldrich K.Loeb Address: 6455 Almaden Expressway   Suite 100 City/State/Zip San Jose, CA 95120 Phone (925) 935-9771 FAX: (925) 979-1456 H&A Project Number 0207599-001-001-02 Site 400-408 Gilman St, Berkeley, CA 94710 H&A P O # 0207599-001-001-02	<b>H&amp;A Project Manager: K.Loeb</b> Tel/Fax: T: 925.433.2302	<b>H&amp;A Site Contact: A.Caveney</b> Lab Contact: Virendra Patel	Date: 3/26/24 Carrier:	COC No 1 of 1 COCs Sampler: A.Caveney For Lab Use Only: Walk-in Client: Lab Sampling Job / SDG No
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ H&A STD <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS/MSD (Y/N) VOCs and TPH-g Method 8260 TPH-diesel and as motor oil using USEPA Method 8015B CAM47-Metals (NO) GOR 1-HB 8260 Method		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOCs and TPH-g Method 8260	TPH-diesel and as motor oil using USEPA Method 8015B	CAM47-Metals (NO) GOR	1-HB 8260 Method	Sample Specific Notes
SB-04-3	3/22/2024		G	S	2	N	N	X	X	X		COMPOSITE FOR ANALYSIS
SB-04-5	3/22/24		G	S	2	N	N	X	X	X		ANALYSIS
SB-07-3	3/22/24		G	S	2	N	N	X	X	X		COMPOSITE FOR ANALYSIS
SB-07-5	3/22/24		G	S	2	N	N	X	X	X		ANALYSIS



570-178097 Chain of Custody

<b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammabl <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<b>Sample Disposal</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months
---	--

**Special Instructions/QC Requirements & Comments:** Send results to kloeb@haleyaldrich.com, acaveney@haleyaldrich.com, H&A Equis 4-file EDD required, Report Dry weight, Report to the RL

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temp (°C) Obs'd: _____ Corr'd: _____ Therm ID No _____
Relinquished by: <i>A. Kash Caveney</i>	Company: <i>H&amp;A</i>	Date/Time: <i>3/26/24 12:00</i>
Relinquished by: <i>A. Kash</i>	Company: <i>ECS</i>	Date/Time: <i>3/26/24 16:30</i>
Relinquished by: _____	Company: _____	Date/Time: _____
Received by: <i>A. Kash</i>	Company: <i>ECS</i>	Date/Time: <i>3/26/24 12:00</i>
Received by: _____	Company: _____	Date/Time: _____
Received in Laboratory by: <i>pu</i>	Company: <i>ECS</i>	Date/Time: <i>3/27/24 10:00</i>

11/50

SCU 12/1-2

## Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 570-178097-1

**Login Number: 178097**

**List Number: 1**

**Creator: Gonzalez, Juan**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kevin Loeb  
Haley & Aldrich, Inc.  
2033 North Main Street  
Suite 309  
Walnut Creek, California 94596

Generated 4/9/2024 5:24:07 PM

## JOB DESCRIPTION

Tom Bates – Env. Sampling Berkeley

## JOB NUMBER

570-178099-1

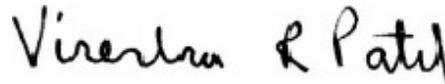
# Eurofins Calscience

## Job Notes

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

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

## Authorization



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Authorized for release by  
Virendra Patel, Project Manager I  
[Virendra.Patel@et.eurofinsus.com](mailto:Virendra.Patel@et.eurofinsus.com)  
(714)895-5494



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# Definitions/Glossary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Haley & Aldrich, Inc.  
Project: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

**Job ID: 570-178099-1**

**Eurofins Calscience**

## Job Narrative 570-178099-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 3/27/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

### GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-425723 and analytical batch 570-425661 were outside control limits: (570-178099-B-18-B MS) and (570-178099-B-18-C MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

### Diesel Range Organics

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

### Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-426377 and 570-426377 and analytical batch 570-426585 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

### General Chemistry

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

### Organic Prep

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

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# Detection Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-01-3

Lab Sample ID: 570-178099-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-01-5

Lab Sample ID: 570-178099-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-01-10

Lab Sample ID: 570-178099-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-02-3

Lab Sample ID: 570-178099-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-02-5

Lab Sample ID: 570-178099-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-02-10

Lab Sample ID: 570-178099-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-03-3

Lab Sample ID: 570-178099-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-03-5

Lab Sample ID: 570-178099-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-05-3

Lab Sample ID: 570-178099-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-05-5

Lab Sample ID: 570-178099-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-06-3

Lab Sample ID: 570-178099-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

## Client Sample ID: SB-06-5

Lab Sample ID: 570-178099-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Composited	Yes				NONE	1		Composite	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

# Detection Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-01 COMPOSITE

Lab Sample ID: 570-178099-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	210		130		ug/Kg	1	*	8260B/CA_LUFT MS	Total/NA
Acetone	55		26		ug/Kg	1	*	8260B	Total/NA
Benzene	6.2		1.3		ug/Kg	1	*	8260B	Total/NA
Diesel Range Organics [C10-C28]	210		6.6		mg/Kg	1	*	8015B	Total/NA
TPH as Motor Oil (C17-C44)	350		33		mg/Kg	1	*	8015B	Total/NA
Arsenic	16.5		4.10		mg/Kg	5	*	6010B	Total/NA
Barium	508		4.10		mg/Kg	5	*	6010B	Total/NA
Cadmium	1.76		0.684		mg/Kg	5	*	6010B	Total/NA
Chromium	152		1.37		mg/Kg	5	*	6010B	Total/NA
Cobalt	19.7		1.37		mg/Kg	5	*	6010B	Total/NA
Copper	103		2.73		mg/Kg	5	*	6010B	Total/NA
Lead	579		2.73		mg/Kg	5	*	6010B	Total/NA
Nickel	173		2.73		mg/Kg	5	*	6010B	Total/NA
Vanadium	62.9		1.37		mg/Kg	5	*	6010B	Total/NA
Zinc	634		6.84		mg/Kg	5	*	6010B	Total/NA

## Client Sample ID: SB-02 COMPOSITE

Lab Sample ID: 570-178099-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	620		140		ug/Kg	1	*	8260B/CA_LUFT MS	Total/NA
2-Butanone (MEK)	29		28		ug/Kg	1	*	8260B	Total/NA
Acetone	170		28		ug/Kg	1	*	8260B	Total/NA
Diesel Range Organics [C10-C28]	69		6.8		mg/Kg	1	*	8015B	Total/NA
TPH as Motor Oil (C17-C44)	110		34		mg/Kg	1	*	8015B	Total/NA
Arsenic	7.86		4.26		mg/Kg	5	*	6010B	Total/NA
Barium	596		4.26		mg/Kg	5	*	6010B	Total/NA
Cadmium	0.780		0.709		mg/Kg	5	*	6010B	Total/NA
Chromium	159		1.42		mg/Kg	5	*	6010B	Total/NA
Cobalt	6.49		1.42		mg/Kg	5	*	6010B	Total/NA
Copper	360		2.84		mg/Kg	5	*	6010B	Total/NA
Lead	224		2.84		mg/Kg	5	*	6010B	Total/NA
Nickel	23.6		2.84		mg/Kg	5	*	6010B	Total/NA
Vanadium	20.4		1.42		mg/Kg	5	*	6010B	Total/NA
Zinc	859		7.09		mg/Kg	5	*	6010B	Total/NA
Mercury	1.22		0.116		mg/Kg	1	*	7471A	Total/NA

## Client Sample ID: SB-03 COMPOSITE

Lab Sample ID: 570-178099-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	240		140		ug/Kg	1	*	8260B/CA_LUFT MS	Total/NA
Acetone	130		29		ug/Kg	1	*	8260B	Total/NA
Diesel Range Organics [C10-C28]	120		7.3		mg/Kg	1	*	8015B	Total/NA
TPH as Motor Oil (C17-C44)	250		36		mg/Kg	1	*	8015B	Total/NA
Arsenic	7.66		4.35		mg/Kg	5	*	6010B	Total/NA
Barium	532		4.35		mg/Kg	5	*	6010B	Total/NA
Cadmium	1.39		0.724		mg/Kg	5	*	6010B	Total/NA
Chromium	44.7		1.45		mg/Kg	5	*	6010B	Total/NA
Cobalt	10.3		1.45		mg/Kg	5	*	6010B	Total/NA
Copper	52.0		2.90		mg/Kg	5	*	6010B	Total/NA
Lead	264		2.90		mg/Kg	5	*	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

# Detection Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-03 COMPOSITE (Continued)

Lab Sample ID: 570-178099-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	56.7		2.90		mg/Kg	5	✳	6010B	Total/NA
Vanadium	35.4		1.45		mg/Kg	5	✳	6010B	Total/NA
Zinc	509		7.24		mg/Kg	5	✳	6010B	Total/NA
Mercury	0.533		0.118		mg/Kg	1	✳	7471A	Total/NA

## Client Sample ID: SB-05 COMPOSITE

Lab Sample ID: 570-178099-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	48		6.5		mg/Kg	1	✳	8015B	Total/NA
TPH as Motor Oil (C17-C44)	140		32		mg/Kg	1	✳	8015B	Total/NA
Arsenic	6.36		3.84		mg/Kg	5	✳	6010B	Total/NA
Barium	199		3.84		mg/Kg	5	✳	6010B	Total/NA
Chromium	47.2		1.28		mg/Kg	5	✳	6010B	Total/NA
Cobalt	12.6		1.28		mg/Kg	5	✳	6010B	Total/NA
Copper	35.4		2.56		mg/Kg	5	✳	6010B	Total/NA
Lead	62.0		2.56		mg/Kg	5	✳	6010B	Total/NA
Nickel	53.1		2.56		mg/Kg	5	✳	6010B	Total/NA
Vanadium	41.7		1.28		mg/Kg	5	✳	6010B	Total/NA
Zinc	120		6.41		mg/Kg	5	✳	6010B	Total/NA
Mercury	0.230		0.0992		mg/Kg	1	✳	7471A	Total/NA

## Client Sample ID: SB-06 COMPOSITE

Lab Sample ID: 570-178099-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.1		5.5		mg/Kg	1	✳	8015B	Total/NA
Arsenic	8.18		3.49		mg/Kg	5	✳	6010B	Total/NA
Barium	134		3.49		mg/Kg	5	✳	6010B	Total/NA
Chromium	52.6		1.16		mg/Kg	5	✳	6010B	Total/NA
Cobalt	12.1		1.16		mg/Kg	5	✳	6010B	Total/NA
Copper	19.8		2.33		mg/Kg	5	✳	6010B	Total/NA
Lead	12.7		2.33		mg/Kg	5	✳	6010B	Total/NA
Nickel	47.9		2.33		mg/Kg	5	✳	6010B	Total/NA
Vanadium	45.0		1.16		mg/Kg	5	✳	6010B	Total/NA
Zinc	44.8		5.82		mg/Kg	5	✳	6010B	Total/NA
Mercury	0.0939		0.0906		mg/Kg	1	✳	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Client Sample ID: SB-01 COMPOSITE**

Date Collected: 03/22/24 00:00  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-15**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	210		130		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				03/29/24 19:08	03/29/24 23:46	1

**Client Sample ID: SB-02 COMPOSITE**

Date Collected: 03/22/24 00:00  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-16**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	620		140		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120				03/29/24 19:08	03/30/24 00:07	1

**Client Sample ID: SB-03 COMPOSITE**

Date Collected: 03/22/24 00:00  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-17**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	240		140		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120				03/29/24 19:08	03/30/24 00:28	1

**Client Sample ID: SB-05 COMPOSITE**

Date Collected: 03/22/24 00:00  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		120		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				03/29/24 19:08	03/29/24 22:21	1

**Client Sample ID: SB-06 COMPOSITE**

Date Collected: 03/22/24 00:00  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-19**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	ND		110		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120				03/29/24 19:08	03/30/24 00:50	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-01 COMPOSITE**

**Lab Sample ID: 570-178099-15**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1,1-Trichloroethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1,2,2-Tetrachloroethane	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1,2-Trichloroethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1-Dichloroethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1-Dichloroethene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,1-Dichloropropene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2,3-Trichlorobenzene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2,3-Trichloropropane	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2,4-Trichlorobenzene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2,4-Trimethylbenzene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2-Dibromo-3-Chloropropane	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2-Dibromoethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2-Dichlorobenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2-Dichloroethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,2-Dichloropropane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,3,5-Trimethylbenzene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,3-Dichlorobenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,3-Dichloropropane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
1,4-Dichlorobenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
2,2-Dichloropropane	ND		6.5		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
2-Butanone (MEK)	ND		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
2-Chlorotoluene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
2-Hexanone	ND		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
4-Chlorotoluene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
4-Methyl-2-pentanone (MIBK)	ND		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
<b>Acetone</b>	<b>55</b>		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
<b>Benzene</b>	<b>6.2</b>		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Bromobenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Bromochloromethane	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Bromodichloromethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Bromoform	ND		6.5		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Bromomethane	ND		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
cis-1,2-Dichloroethene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
cis-1,3-Dichloropropene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Carbon disulfide	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Carbon tetrachloride	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Chlorobenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Chloroethane	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Chloroform	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Chloromethane	ND		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Dibromochloromethane	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Dibromomethane	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Dichlorodifluoromethane	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Di-isopropyl ether (DIPE)	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Ethanol	ND		330		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Ethylbenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Ethyl-t-butyl ether (ETBE)	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-01 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-15**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Methylene Chloride	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Methyl-t-Butyl Ether (MTBE)	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Naphthalene	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
n-Butylbenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
N-Propylbenzene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
o-Xylene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
m,p-Xylene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
p-Isopropyltoluene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
sec-Butylbenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Styrene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
trans-1,2-Dichloroethene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
trans-1,3-Dichloropropene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Tert-amyl-methyl ether (TAME)	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
tert-Butyl alcohol (TBA)	ND		26		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
tert-Butylbenzene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Tetrachloroethene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Toluene	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Trichloroethene	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Trichlorofluoromethane	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Vinyl acetate	ND		13		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Vinyl chloride	ND		1.3		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1
Xylenes, Total	ND		2.6		ug/Kg	☼	03/29/24 19:08	03/29/24 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		32 - 179	03/29/24 19:08	03/29/24 23:46	1
4-Bromofluorobenzene (Surr)	96		80 - 120	03/29/24 19:08	03/29/24 23:46	1
Dibromofluoromethane (Surr)	102		58 - 147	03/29/24 19:08	03/29/24 23:46	1
Toluene-d8 (Surr)	103		80 - 120	03/29/24 19:08	03/29/24 23:46	1

**Client Sample ID: SB-02 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-16**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1,1-Trichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1,2,2-Tetrachloroethane	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1,2-Trichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1-Dichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1-Dichloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,1-Dichloropropene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2,3-Trichlorobenzene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2,3-Trichloropropane	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2,4-Trichlorobenzene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2,4-Trimethylbenzene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2-Dibromoethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2-Dichlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,2-Dichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-02 COMPOSITE**

**Lab Sample ID: 570-178099-16**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,3,5-Trimethylbenzene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,3-Dichlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,3-Dichloropropane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
1,4-Dichlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
2,2-Dichloropropane	ND		7.0		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
<b>2-Butanone (MEK)</b>	<b>29</b>		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
2-Chlorotoluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
2-Hexanone	ND		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
4-Chlorotoluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
4-Methyl-2-pentanone (MIBK)	ND		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
<b>Acetone</b>	<b>170</b>		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Benzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Bromobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Bromochloromethane	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Bromodichloromethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Bromoform	ND		7.0		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Bromomethane	ND		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
cis-1,2-Dichloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
cis-1,3-Dichloropropene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Carbon disulfide	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Carbon tetrachloride	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Chlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Chloroethane	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Chloroform	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Chloromethane	ND		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Dibromochloromethane	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Dibromomethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Dichlorodifluoromethane	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Di-isopropyl ether (DIPE)	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Ethanol	ND		350		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Ethylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Ethyl-t-butyl ether (ETBE)	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Isopropylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Methylene Chloride	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Methyl-t-Butyl Ether (MTBE)	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Naphthalene	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
n-Butylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
N-Propylbenzene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
o-Xylene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
m,p-Xylene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
p-Isopropyltoluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
sec-Butylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Styrene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
trans-1,2-Dichloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
trans-1,3-Dichloropropene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Tert-amyl-methyl ether (TAME)	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
tert-Butyl alcohol (TBA)	ND		28		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
tert-Butylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-02 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-16**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Toluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Trichloroethene	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Trichlorofluoromethane	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Vinyl acetate	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Vinyl chloride	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1
Xylenes, Total	ND		2.8		ug/Kg	☼	03/29/24 19:08	03/30/24 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		32 - 179	03/29/24 19:08	03/30/24 00:07	1
4-Bromofluorobenzene (Surr)	90		80 - 120	03/29/24 19:08	03/30/24 00:07	1
Dibromofluoromethane (Surr)	103		58 - 147	03/29/24 19:08	03/30/24 00:07	1
Toluene-d8 (Surr)	101		80 - 120	03/29/24 19:08	03/30/24 00:07	1

**Client Sample ID: SB-03 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-17**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1,1-Trichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1,2,2-Tetrachloroethane	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1,2-Trichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1-Dichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1-Dichloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,1-Dichloropropene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2,3-Trichlorobenzene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2,3-Trichloropropane	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2,4-Trichlorobenzene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2,4-Trimethylbenzene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2-Dibromo-3-Chloropropane	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2-Dibromoethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2-Dichlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2-Dichloroethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,2-Dichloropropane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,3,5-Trimethylbenzene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,3-Dichlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,3-Dichloropropane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
1,4-Dichlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
2,2-Dichloropropane	ND		7.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
2-Butanone (MEK)	ND		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
2-Chlorotoluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
2-Hexanone	ND		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
4-Chlorotoluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
4-Methyl-2-pentanone (MIBK)	ND		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
<b>Acetone</b>	<b>130</b>		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Benzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Bromobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Bromochloromethane	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Bromodichloromethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-03 COMPOSITE**

**Lab Sample ID: 570-178099-17**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		7.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Bromomethane	ND		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
cis-1,2-Dichloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
cis-1,3-Dichloropropene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Carbon disulfide	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Carbon tetrachloride	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Chlorobenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Chloroethane	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Chloroform	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Chloromethane	ND		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Dibromochloromethane	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Dibromomethane	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Dichlorodifluoromethane	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Di-isopropyl ether (DIPE)	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Ethanol	ND		360		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Ethylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Ethyl-t-butyl ether (ETBE)	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Isopropylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Methylene Chloride	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Naphthalene	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
n-Butylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
N-Propylbenzene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
o-Xylene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
m,p-Xylene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
p-Isopropyltoluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
sec-Butylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Styrene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
trans-1,2-Dichloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
trans-1,3-Dichloropropene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Tert-amyl-methyl ether (TAME)	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
tert-Butyl alcohol (TBA)	ND		29		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
tert-Butylbenzene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Tetrachloroethene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Toluene	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Trichloroethene	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Trichlorofluoromethane	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Vinyl acetate	ND		14		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Vinyl chloride	ND		1.4		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1
Xylenes, Total	ND		2.9		ug/Kg	☼	03/29/24 19:08	03/30/24 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		32 - 179	03/29/24 19:08	03/30/24 00:28	1
4-Bromofluorobenzene (Surr)	96		80 - 120	03/29/24 19:08	03/30/24 00:28	1
Dibromofluoromethane (Surr)	102		58 - 147	03/29/24 19:08	03/30/24 00:28	1
Toluene-d8 (Surr)	104		80 - 120	03/29/24 19:08	03/30/24 00:28	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SB-05 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1,1-Trichloroethane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1,2,2-Tetrachloroethane	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1,2-Trichloroethane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1-Dichloroethane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1-Dichloroethene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,1-Dichloropropene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2,3-Trichlorobenzene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2,3-Trichloropropane	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2,4-Trichlorobenzene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2,4-Trimethylbenzene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2-Dibromo-3-Chloropropane	ND		12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2-Dibromoethane	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2-Dichlorobenzene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2-Dichloroethane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,2-Dichloropropane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,3,5-Trimethylbenzene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,3-Dichlorobenzene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,3-Dichloropropane	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
1,4-Dichlorobenzene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
2,2-Dichloropropane	ND		6.1		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
2-Butanone (MEK)	ND		24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
2-Chlorotoluene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
2-Hexanone	ND		24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
4-Chlorotoluene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
4-Methyl-2-pentanone (MIBK)	ND		24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Acetone	ND	F1	24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Benzene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Bromobenzene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Bromochloromethane	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Bromodichloromethane	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Bromoform	ND		6.1		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Bromomethane	ND		24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
cis-1,2-Dichloroethene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
cis-1,3-Dichloropropene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Carbon disulfide	ND		12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Carbon tetrachloride	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Chlorobenzene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Chloroethane	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Chloroform	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Chloromethane	ND		24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Dibromochloromethane	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Dibromomethane	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Dichlorodifluoromethane	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Di-isopropyl ether (DIPE)	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Ethanol	ND		300		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Ethylbenzene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Ethyl-t-butyl ether (ETBE)	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-05 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Methylene Chloride	ND		12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Methyl-t-Butyl Ether (MTBE)	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Naphthalene	ND		12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
n-Butylbenzene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
N-Propylbenzene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
o-Xylene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
m,p-Xylene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
p-Isopropyltoluene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
sec-Butylbenzene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Styrene	ND	F1	1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
trans-1,2-Dichloroethene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
trans-1,3-Dichloropropene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Tert-amyl-methyl ether (TAME)	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
tert-Butyl alcohol (TBA)	ND		24		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
tert-Butylbenzene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Tetrachloroethene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Toluene	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Trichloroethene	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Trichlorofluoromethane	ND		12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Vinyl acetate	ND	F1	12		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Vinyl chloride	ND		1.2		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1
Xylenes, Total	ND		2.4		ug/Kg	☼	03/29/24 19:08	03/29/24 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		32 - 179	03/29/24 19:08	03/29/24 22:21	1
4-Bromofluorobenzene (Surr)	95		80 - 120	03/29/24 19:08	03/29/24 22:21	1
Dibromofluoromethane (Surr)	99		58 - 147	03/29/24 19:08	03/29/24 22:21	1
Toluene-d8 (Surr)	104		80 - 120	03/29/24 19:08	03/29/24 22:21	1

**Client Sample ID: SB-06 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-19**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1,1-Trichloroethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1,2,2-Tetrachloroethane	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		11		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1,2-Trichloroethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1-Dichloroethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1-Dichloroethene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,1-Dichloropropene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2,3-Trichlorobenzene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2,3-Trichloropropane	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2,4-Trichlorobenzene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2,4-Trimethylbenzene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2-Dibromoethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2-Dichlorobenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,2-Dichloroethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-06 COMPOSITE**

**Lab Sample ID: 570-178099-19**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,3,5-Trimethylbenzene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,3-Dichlorobenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,3-Dichloropropane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
1,4-Dichlorobenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
2,2-Dichloropropane	ND		5.6		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
2-Butanone (MEK)	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
2-Chlorotoluene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
2-Hexanone	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
4-Chlorotoluene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Acetone	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Benzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Bromobenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Bromochloromethane	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Bromodichloromethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Bromoform	ND		5.6		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Bromomethane	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
cis-1,2-Dichloroethene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
cis-1,3-Dichloropropene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Carbon disulfide	ND		11		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Carbon tetrachloride	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Chlorobenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Chloroethane	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Chloroform	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Chloromethane	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Dibromochloromethane	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Dibromomethane	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Dichlorodifluoromethane	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Di-isopropyl ether (DIPE)	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Ethanol	ND		280		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Ethylbenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Ethyl-t-butyl ether (ETBE)	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Isopropylbenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Methylene Chloride	ND		11		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Methyl-t-Butyl Ether (MTBE)	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Naphthalene	ND		11		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
n-Butylbenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
N-Propylbenzene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
o-Xylene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
m,p-Xylene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
p-Isopropyltoluene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
sec-Butylbenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Styrene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
trans-1,2-Dichloroethene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
trans-1,3-Dichloropropene	ND		2.2		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
Tert-amyl-methyl ether (TAME)	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
tert-Butyl alcohol (TBA)	ND		22		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1
tert-Butylbenzene	ND		1.1		ug/Kg	☼	03/29/24 19:08	03/30/24 00:50	1

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SB-06 COMPOSITE**

**Lab Sample ID: 570-178099-19**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.1		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1
Toluene	ND		1.1		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1
Trichloroethene	ND		2.2		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1
Trichlorofluoromethane	ND		11		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1
Vinyl acetate	ND		11		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1
Vinyl chloride	ND		1.1		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1
Xylenes, Total	ND		2.2		ug/Kg	✳	03/29/24 19:08	03/30/24 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		32 - 179	03/29/24 19:08	03/30/24 00:50	1
4-Bromofluorobenzene (Surr)	98		80 - 120	03/29/24 19:08	03/30/24 00:50	1
Dibromofluoromethane (Surr)	103		58 - 147	03/29/24 19:08	03/30/24 00:50	1
Toluene-d8 (Surr)	99		80 - 120	03/29/24 19:08	03/30/24 00:50	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

### Client Sample ID: SB-01 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		6.6		mg/Kg	☼	03/28/24 18:26	04/09/24 03:34	1
TPH as Motor Oil (C17-C44)	350		33		mg/Kg	☼	03/28/24 18:26	04/09/24 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		60 - 138				03/28/24 18:26	04/09/24 03:34	1

### Client Sample ID: SB-02 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	69		6.8		mg/Kg	☼	03/28/24 18:26	04/09/24 03:56	1
TPH as Motor Oil (C17-C44)	110		34		mg/Kg	☼	03/28/24 18:26	04/09/24 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 138				03/28/24 18:26	04/09/24 03:56	1

### Client Sample ID: SB-03 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	120		7.3		mg/Kg	☼	03/28/24 18:26	04/09/24 04:19	1
TPH as Motor Oil (C17-C44)	250		36		mg/Kg	☼	03/28/24 18:26	04/09/24 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 138				03/28/24 18:26	04/09/24 04:19	1

### Client Sample ID: SB-05 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	48		6.5		mg/Kg	☼	03/28/24 18:26	04/09/24 04:41	1
TPH as Motor Oil (C17-C44)	140		32		mg/Kg	☼	03/28/24 18:26	04/09/24 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 138				03/28/24 18:26	04/09/24 04:41	1

### Client Sample ID: SB-06 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-19

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.1		5.5		mg/Kg	☼	03/28/24 18:26	04/09/24 05:48	1
TPH as Motor Oil (C17-C44)	ND		28		mg/Kg	☼	03/28/24 18:26	04/09/24 05:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		60 - 138				03/28/24 18:26	04/09/24 05:48	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 6010B - Metals (ICP)

**Client Sample ID: SB-01 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-15**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		13.7		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Arsenic</b>	<b>16.5</b>		4.10		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Barium</b>	<b>508</b>		4.10		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
Beryllium	ND		0.684		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Cadmium</b>	<b>1.76</b>		0.684		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Chromium</b>	<b>152</b>		1.37		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Cobalt</b>	<b>19.7</b>		1.37		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Copper</b>	<b>103</b>		2.73		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Lead</b>	<b>579</b>		2.73		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
Molybdenum	ND		2.73		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Nickel</b>	<b>173</b>		2.73		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
Selenium	ND		4.10		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
Silver	ND		2.05		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
Thallium	ND		13.7		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Vanadium</b>	<b>62.9</b>		1.37		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5
<b>Zinc</b>	<b>634</b>		6.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:33	5

**Client Sample ID: SB-02 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-16**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		14.2		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Arsenic</b>	<b>7.86</b>		4.26		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Barium</b>	<b>596</b>		4.26		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
Beryllium	ND		0.709		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Cadmium</b>	<b>0.780</b>		0.709		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Chromium</b>	<b>159</b>		1.42		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Cobalt</b>	<b>6.49</b>		1.42		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Copper</b>	<b>360</b>		2.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Lead</b>	<b>224</b>		2.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
Molybdenum	ND		2.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Nickel</b>	<b>23.6</b>		2.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
Selenium	ND		4.26		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
Silver	ND		2.13		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
Thallium	ND		14.2		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Vanadium</b>	<b>20.4</b>		1.42		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5
<b>Zinc</b>	<b>859</b>		7.09		mg/Kg	☼	04/02/24 07:15	04/04/24 18:35	5

**Client Sample ID: SB-03 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-17**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		14.5		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Arsenic</b>	<b>7.66</b>		4.35		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Barium</b>	<b>532</b>		4.35		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
Beryllium	ND		0.724		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Cadmium</b>	<b>1.39</b>		0.724		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Chromium</b>	<b>44.7</b>		1.45		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Cobalt</b>	<b>10.3</b>		1.45		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Copper</b>	<b>52.0</b>		2.90		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 6010B - Metals (ICP) (Continued)

**Client Sample ID: SB-03 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-17**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>264</b>		2.90		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
Molybdenum	ND		2.90		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Nickel</b>	<b>56.7</b>		2.90		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
Selenium	ND		4.35		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
Silver	ND		2.17		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
Thallium	ND		14.5		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Vanadium</b>	<b>35.4</b>		1.45		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5
<b>Zinc</b>	<b>509</b>		7.24		mg/Kg	☼	04/02/24 07:15	04/04/24 18:37	5

**Client Sample ID: SB-05 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		12.8		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Arsenic</b>	<b>6.36</b>		3.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Barium</b>	<b>199</b>		3.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
Beryllium	ND		0.641		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
Cadmium	ND		0.641		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Chromium</b>	<b>47.2</b>		1.28		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Cobalt</b>	<b>12.6</b>		1.28		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Copper</b>	<b>35.4</b>		2.56		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Lead</b>	<b>62.0</b>		2.56		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
Molybdenum	ND		2.56		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Nickel</b>	<b>53.1</b>		2.56		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
Selenium	ND		3.84		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
Silver	ND		1.92		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
Thallium	ND		12.8		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Vanadium</b>	<b>41.7</b>		1.28		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5
<b>Zinc</b>	<b>120</b>		6.41		mg/Kg	☼	04/02/24 07:15	04/04/24 18:40	5

**Client Sample ID: SB-06 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-19**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		11.6		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Arsenic</b>	<b>8.18</b>		3.49		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Barium</b>	<b>134</b>		3.49		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
Beryllium	ND		0.582		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
Cadmium	ND		0.582		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Chromium</b>	<b>52.6</b>		1.16		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Cobalt</b>	<b>12.1</b>		1.16		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Copper</b>	<b>19.8</b>		2.33		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Lead</b>	<b>12.7</b>		2.33		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
Molybdenum	ND		2.33		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Nickel</b>	<b>47.9</b>		2.33		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
Selenium	ND		3.49		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
Silver	ND		1.75		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
Thallium	ND		11.6		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Vanadium</b>	<b>45.0</b>		1.16		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5
<b>Zinc</b>	<b>44.8</b>		5.82		mg/Kg	☼	04/02/24 07:15	04/04/24 18:42	5

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# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: SW846 7471A - Mercury (CVAA)

**Client Sample ID: SB-01 COMPOSITE**

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.112		mg/Kg	☼	04/01/24 08:13	04/01/24 13:17	1

**Client Sample ID: SB-02 COMPOSITE**

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.22		0.116		mg/Kg	☼	04/01/24 08:13	04/01/24 13:19	1

**Client Sample ID: SB-03 COMPOSITE**

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.533		0.118		mg/Kg	☼	04/01/24 08:13	04/01/24 13:24	1

**Client Sample ID: SB-05 COMPOSITE**

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.230		0.0992		mg/Kg	☼	04/01/24 08:13	04/01/24 13:26	1

**Client Sample ID: SB-06 COMPOSITE**

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-19

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0939		0.0906		mg/Kg	☼	04/01/24 08:13	04/01/24 13:28	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## General Chemistry

Client Sample ID: SB-01 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM 2540G)	25.4		0.100		%			03/29/24 12:26	1

Client Sample ID: SB-02 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM 2540G)	29.9		0.100		%			03/29/24 12:26	1

Client Sample ID: SB-03 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM 2540G)	30.6		0.100		%			03/29/24 12:26	1

Client Sample ID: SB-05 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM 2540G)	20.8		0.100		%			03/29/24 12:26	1

Client Sample ID: SB-06 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-19

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (SM 2540G)	13.3		0.100		%			03/29/24 12:26	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: Composite - Sample Compositing

**Client Sample ID: SB-01-3**  
 Date Collected: 03/22/24 09:40  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-1**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-01-5**  
 Date Collected: 03/22/24 10:25  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-2**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-01-10**  
 Date Collected: 03/22/24 10:40  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-3**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-02-3**  
 Date Collected: 03/22/24 08:05  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-5**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-02-5**  
 Date Collected: 03/22/24 08:20  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-6**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-02-10**  
 Date Collected: 03/22/24 09:05  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-7**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-03-3**  
 Date Collected: 03/22/24 12:30  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-9**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-03-5**  
 Date Collected: 03/22/24 12:45  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-10**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-05-3**  
 Date Collected: 03/22/24 13:55  
 Date Received: 03/27/24 10:00

**Lab Sample ID: 570-178099-11**  
 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: Composite - Sample Compositing

**Client Sample ID: SB-05-5**  
**Date Collected: 03/22/24 14:05**  
**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-06-3**  
**Date Collected: 03/22/24 13:30**  
**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-13**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

**Client Sample ID: SB-06-5**  
**Date Collected: 03/22/24 13:40**  
**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-14**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Composited	Yes				NONE			03/29/24 14:52	1

# Surrogate Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (32-179)	BFB (80-120)	DBFM (58-147)	TOL (80-120)
570-178099-15	SB-01 COMPOSITE	98	96	102	103
570-178099-16	SB-02 COMPOSITE	100	90	103	101
570-178099-17	SB-03 COMPOSITE	99	96	102	104
570-178099-18	SB-05 COMPOSITE	103	95	99	104
570-178099-18 MS	SB-05 COMPOSITE	109	98	100	100
570-178099-18 MSD	SB-05 COMPOSITE	99	98	99	102
570-178099-19	SB-06 COMPOSITE	100	98	103	99
LCS 570-425723/1-A	Lab Control Sample	98	96	101	98
LCSD 570-425723/2-A	Lab Control Sample Dup	95	100	94	98
MB 570-425723/5-A	Method Blank	97	97	97	102

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		TOL (80-120)
570-178099-15	SB-01 COMPOSITE	101
570-178099-16	SB-02 COMPOSITE	99
570-178099-17	SB-03 COMPOSITE	102
570-178099-18	SB-05 COMPOSITE	101
570-178099-19	SB-06 COMPOSITE	98
LCS 570-425723/3-A	Lab Control Sample	96
LCSD 570-425723/4-A	Lab Control Sample Dup	96
MB 570-425723/5-A	Method Blank	99

**Surrogate Legend**

TOL = Toluene-d8 (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1 (60-138)
570-178099-15	SB-01 COMPOSITE	92
570-178099-16	SB-02 COMPOSITE	102
570-178099-17	SB-03 COMPOSITE	102
570-178099-18	SB-05 COMPOSITE	95
570-178099-19	SB-06 COMPOSITE	99
LCS 570-425301/2-A	Lab Control Sample	91
LCS 570-425301/6-A	Lab Control Sample	95
LCSD 570-425301/3-A	Lab Control Sample Dup	91
LCSD 570-425301/7-A	Lab Control Sample Dup	94
MB 570-425301/1-A	Method Blank	103

# Surrogate Summary

Client: Haley & Aldrich, Inc.

Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Surrogate Legend

OTCSN = n-Octacosane (Surr)

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-425723/5-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 425723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,1-Trichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1,2-Trichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1-Dichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1-Dichloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,1-Dichloropropene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,3-Trichlorobenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,3-Trichloropropane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dibromoethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dichlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dichloroethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,2-Dichloropropane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,3-Dichlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,3-Dichloropropane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
1,4-Dichlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2,2-Dichloropropane	ND		5.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2-Butanone (MEK)	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2-Chlorotoluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
2-Hexanone	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
4-Chlorotoluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
4-Methyl-2-pentanone (MIBK)	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Acetone	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Benzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromochloromethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromodichloromethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromoform	ND		5.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Bromomethane	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Carbon disulfide	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Carbon tetrachloride	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chlorobenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chloroethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chloroform	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Chloromethane	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Dibromochloromethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Dibromomethane	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Dichlorodifluoromethane	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Di-isopropyl ether (DIPE)	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Ethanol	ND		250		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Ethylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1

# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-425723/5-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 425723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethyl-t-butyl ether (ETBE)	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Isopropylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Methylene Chloride	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Naphthalene	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
n-Butylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
N-Propylbenzene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
o-Xylene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
m,p-Xylene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
p-Isopropyltoluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
sec-Butylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Styrene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Tert-amyl-methyl ether (TAME)	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
tert-Butyl alcohol (TBA)	ND		20		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
tert-Butylbenzene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Tetrachloroethene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Toluene	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Trichloroethene	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Trichlorofluoromethane	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Vinyl acetate	ND		10		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Vinyl chloride	ND		1.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1
Xylenes, Total	ND		2.0		ug/Kg		03/29/24 17:40	03/29/24 21:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		32 - 179	03/29/24 17:40	03/29/24 21:39	1
4-Bromofluorobenzene (Surr)	97		80 - 120	03/29/24 17:40	03/29/24 21:39	1
Dibromofluoromethane (Surr)	97		58 - 147	03/29/24 17:40	03/29/24 21:39	1
Toluene-d8 (Surr)	102		80 - 120	03/29/24 17:40	03/29/24 21:39	1

Lab Sample ID: LCS 570-425723/1-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,1-Trichloroethane	50.0	48.08		ug/Kg		96	78 - 130
1,1,1,2-Tetrachloroethane	50.0	53.58		ug/Kg		107	80 - 124
1,1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.21		ug/Kg		100	73 - 130
1,1,1,2-Trichloroethane	50.0	52.12		ug/Kg		104	80 - 123
1,1-Dichloroethane	50.0	49.08		ug/Kg		98	79 - 124
1,1-Dichloroethene	50.0	48.92		ug/Kg		98	74 - 132
1,1-Dichloropropene	50.0	48.70		ug/Kg		97	78 - 130
1,2,3-Trichlorobenzene	50.0	52.70		ug/Kg		105	80 - 123
1,2,3-Trichloropropane	50.0	45.96		ug/Kg		92	79 - 120
1,2,4-Trichlorobenzene	50.0	54.47		ug/Kg		109	80 - 125
1,2,4-Trimethylbenzene	50.0	49.82		ug/Kg		100	80 - 124

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-425723/1-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
1,2-Dibromo-3-Chloropropane	50.0	46.42		ug/Kg		93	67 - 120
1,2-Dibromoethane	50.0	48.42		ug/Kg		97	80 - 120
1,2-Dichlorobenzene	50.0	51.28		ug/Kg		103	80 - 120
1,2-Dichloroethane	50.0	46.78		ug/Kg		94	77 - 120
1,2-Dichloropropane	50.0	47.52		ug/Kg		95	80 - 126
1,3,5-Trimethylbenzene	50.0	49.57		ug/Kg		99	80 - 121
1,3-Dichlorobenzene	50.0	51.80		ug/Kg		104	80 - 120
1,3-Dichloropropane	50.0	50.92		ug/Kg		102	80 - 120
1,4-Dichlorobenzene	50.0	50.07		ug/Kg		100	80 - 120
2,2-Dichloropropane	50.0	49.29		ug/Kg		99	73 - 135
2-Butanone (MEK)	50.0	45.50		ug/Kg		91	67 - 136
2-Chlorotoluene	50.0	49.03		ug/Kg		98	80 - 120
2-Hexanone	50.0	50.44		ug/Kg		101	70 - 137
4-Chlorotoluene	50.0	49.76		ug/Kg		100	80 - 121
4-Methyl-2-pentanone (MIBK)	50.0	47.13		ug/Kg		94	74 - 124
Acetone	50.0	48.19		ug/Kg		96	61 - 142
Benzene	50.0	47.48		ug/Kg		95	80 - 120
Bromobenzene	50.0	51.08		ug/Kg		102	80 - 120
Bromochloromethane	50.0	49.91		ug/Kg		100	80 - 120
Bromodichloromethane	50.0	47.83		ug/Kg		96	80 - 125
Bromoform	50.0	51.02		ug/Kg		102	74 - 138
Bromomethane	50.0	51.95		ug/Kg		104	58 - 136
cis-1,2-Dichloroethane	50.0	51.23		ug/Kg		102	80 - 124
cis-1,3-Dichloropropene	50.0	47.80		ug/Kg		96	80 - 123
Carbon disulfide	50.0	46.67		ug/Kg		93	68 - 128
Carbon tetrachloride	50.0	49.57		ug/Kg		99	75 - 140
Chlorobenzene	50.0	50.33		ug/Kg		101	80 - 120
Chloroethane	50.0	53.27		ug/Kg		107	76 - 137
Chloroform	50.0	48.95		ug/Kg		98	80 - 121
Chloromethane	50.0	48.69		ug/Kg		97	74 - 133
Dibromochloromethane	50.0	51.23		ug/Kg		102	80 - 132
Dibromomethane	50.0	47.82		ug/Kg		96	80 - 120
Dichlorodifluoromethane	50.0	47.43		ug/Kg		95	63 - 146
Di-isopropyl ether (DIPE)	50.0	48.86		ug/Kg		98	73 - 132
Ethanol	500	476.2		ug/Kg		95	46 - 159
Ethylbenzene	50.0	48.77		ug/Kg		98	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	49.58		ug/Kg		99	77 - 129
Isopropylbenzene	50.0	51.80		ug/Kg		104	80 - 122
Methylene Chloride	50.0	48.05		ug/Kg		96	74 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	48.12		ug/Kg		96	79 - 123
Naphthalene	50.0	50.89		ug/Kg		102	79 - 121
n-Butylbenzene	50.0	51.31		ug/Kg		103	79 - 131
N-Propylbenzene	50.0	50.10		ug/Kg		100	80 - 122
o-Xylene	50.0	47.87		ug/Kg		96	80 - 120
m,p-Xylene	100	96.29		ug/Kg		96	80 - 120
p-Isopropyltoluene	50.0	49.28		ug/Kg		99	80 - 126
sec-Butylbenzene	50.0	49.79		ug/Kg		100	80 - 125
Styrene	50.0	49.63		ug/Kg		99	80 - 120
trans-1,2-Dichloroethene	50.0	50.04		ug/Kg		100	75 - 123

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-425723/1-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
trans-1,3-Dichloropropene	50.0	48.99		ug/Kg		98	80 - 124	
Tert-amyl-methyl ether (TAME)	50.0	47.02		ug/Kg		94	80 - 120	
tert-Butyl alcohol (TBA)	250	248.0		ug/Kg		99	74 - 123	
tert-Butylbenzene	50.0	50.43		ug/Kg		101	80 - 124	
Tetrachloroethene	50.0	49.75		ug/Kg		99	80 - 122	
Toluene	50.0	48.23		ug/Kg		96	80 - 120	
Trichloroethene	50.0	49.25		ug/Kg		99	80 - 127	
Trichlorofluoromethane	50.0	52.62		ug/Kg		105	70 - 144	
Vinyl acetate	50.0	49.05		ug/Kg		98	71 - 125	
Vinyl chloride	50.0	51.74		ug/Kg		103	79 - 133	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		32 - 179
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	101		58 - 147
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 570-425723/2-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
1,1,1,2-Tetrachloroethane	50.0	48.19		ug/Kg		96	80 - 125	4	20	
1,1,1-Trichloroethane	50.0	46.74		ug/Kg		93	78 - 130	3	20	
1,1,2,2-Tetrachloroethane	50.0	50.64		ug/Kg		101	80 - 124	6	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.82		ug/Kg		102	73 - 130	1	20	
1,1,2-Trichloroethane	50.0	47.93		ug/Kg		96	80 - 123	8	20	
1,1-Dichloroethane	50.0	46.62		ug/Kg		93	79 - 124	5	20	
1,1-Dichloroethene	50.0	46.39		ug/Kg		93	74 - 132	5	20	
1,1-Dichloropropene	50.0	48.24		ug/Kg		96	78 - 130	1	20	
1,2,3-Trichlorobenzene	50.0	48.29		ug/Kg		97	80 - 123	9	20	
1,2,3-Trichloropropane	50.0	45.39		ug/Kg		91	79 - 120	1	20	
1,2,4-Trichlorobenzene	50.0	49.96		ug/Kg		100	80 - 125	9	20	
1,2,4-Trimethylbenzene	50.0	47.35		ug/Kg		95	80 - 124	5	20	
1,2-Dibromo-3-Chloropropane	50.0	43.30		ug/Kg		87	67 - 120	7	20	
1,2-Dibromoethane	50.0	46.46		ug/Kg		93	80 - 120	4	20	
1,2-Dichlorobenzene	50.0	47.78		ug/Kg		96	80 - 120	7	20	
1,2-Dichloroethane	50.0	46.87		ug/Kg		94	77 - 120	0	20	
1,2-Dichloropropane	50.0	47.70		ug/Kg		95	80 - 126	0	20	
1,3,5-Trimethylbenzene	50.0	47.95		ug/Kg		96	80 - 121	3	20	
1,3-Dichlorobenzene	50.0	49.42		ug/Kg		99	80 - 120	5	20	
1,3-Dichloropropane	50.0	48.74		ug/Kg		97	80 - 120	4	20	
1,4-Dichlorobenzene	50.0	47.94		ug/Kg		96	80 - 120	4	20	
2,2-Dichloropropane	50.0	48.40		ug/Kg		97	73 - 135	2	20	
2-Butanone (MEK)	50.0	41.45		ug/Kg		83	67 - 136	9	20	
2-Chlorotoluene	50.0	47.48		ug/Kg		95	80 - 120	3	20	
2-Hexanone	50.0	44.00		ug/Kg		88	70 - 137	14	20	
4-Chlorotoluene	50.0	48.50		ug/Kg		97	80 - 121	3	20	

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-425723/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 425661

Prep Batch: 425723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
4-Methyl-2-pentanone (MIBK)	50.0	46.36		ug/Kg		93	74 - 124	2	20	
Acetone	50.0	48.91		ug/Kg		98	61 - 142	1	23	
Benzene	50.0	46.14		ug/Kg		92	80 - 120	3	20	
Bromobenzene	50.0	48.39		ug/Kg		97	80 - 120	5	20	
Bromochloromethane	50.0	48.97		ug/Kg		98	80 - 120	2	20	
Bromodichloromethane	50.0	48.77		ug/Kg		98	80 - 125	2	20	
Bromoform	50.0	46.49		ug/Kg		93	74 - 138	9	20	
Bromomethane	50.0	51.33		ug/Kg		103	58 - 136	1	20	
cis-1,2-Dichloroethene	50.0	47.74		ug/Kg		95	80 - 124	7	20	
cis-1,3-Dichloropropene	50.0	46.61		ug/Kg		93	80 - 123	3	20	
Carbon disulfide	50.0	45.82		ug/Kg		92	68 - 128	2	20	
Carbon tetrachloride	50.0	46.92		ug/Kg		94	75 - 140	5	20	
Chlorobenzene	50.0	48.01		ug/Kg		96	80 - 120	5	20	
Chloroethane	50.0	50.76		ug/Kg		102	76 - 137	5	20	
Chloroform	50.0	45.27		ug/Kg		91	80 - 121	8	20	
Chloromethane	50.0	47.43		ug/Kg		95	74 - 133	3	20	
Dibromochloromethane	50.0	49.19		ug/Kg		98	80 - 132	4	20	
Dibromomethane	50.0	47.95		ug/Kg		96	80 - 120	0	20	
Dichlorodifluoromethane	50.0	46.81		ug/Kg		94	63 - 146	1	20	
Di-isopropyl ether (DIPE)	50.0	46.21		ug/Kg		92	73 - 132	6	20	
Ethanol	500	464.3		ug/Kg		93	46 - 159	3	30	
Ethylbenzene	50.0	47.54		ug/Kg		95	80 - 120	3	20	
Ethyl-t-butyl ether (ETBE)	50.0	46.94		ug/Kg		94	77 - 129	5	20	
Isopropylbenzene	50.0	51.02		ug/Kg		102	80 - 122	2	20	
Methylene Chloride	50.0	44.94		ug/Kg		90	74 - 120	7	20	
Methyl-t-Butyl Ether (MTBE)	50.0	46.75		ug/Kg		94	79 - 123	3	20	
Naphthalene	50.0	47.30		ug/Kg		95	79 - 121	7	20	
n-Butylbenzene	50.0	48.88		ug/Kg		98	79 - 131	5	20	
N-Propylbenzene	50.0	47.74		ug/Kg		95	80 - 122	5	20	
o-Xylene	50.0	46.89		ug/Kg		94	80 - 120	2	20	
m,p-Xylene	100	94.62		ug/Kg		95	80 - 120	2	20	
p-Isopropyltoluene	50.0	46.56		ug/Kg		93	80 - 126	6	20	
sec-Butylbenzene	50.0	48.28		ug/Kg		97	80 - 125	3	20	
Styrene	50.0	48.69		ug/Kg		97	80 - 120	2	20	
trans-1,2-Dichloroethene	50.0	48.80		ug/Kg		98	75 - 123	3	20	
trans-1,3-Dichloropropene	50.0	48.06		ug/Kg		96	80 - 124	2	20	
Tert-amyl-methyl ether (TAME)	50.0	46.77		ug/Kg		94	80 - 120	1	20	
tert-Butyl alcohol (TBA)	250	238.0		ug/Kg		95	74 - 123	4	20	
tert-Butylbenzene	50.0	48.68		ug/Kg		97	80 - 124	4	20	
Tetrachloroethene	50.0	48.00		ug/Kg		96	80 - 122	4	20	
Toluene	50.0	47.24		ug/Kg		94	80 - 120	2	20	
Trichloroethene	50.0	48.93		ug/Kg		98	80 - 127	1	20	
Trichlorofluoromethane	50.0	52.49		ug/Kg		105	70 - 144	0	20	
Vinyl acetate	50.0	48.19		ug/Kg		96	71 - 125	2	20	
Vinyl chloride	50.0	50.69		ug/Kg		101	79 - 133	2	20	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	95		32 - 179

# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-425723/2-A

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 425723

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	94		58 - 147
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 570-178099-18 MS

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: SB-05 COMPOSITE

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	ND		62.5	40.00		ug/Kg	*	64	61 - 129
1,1,1,1-Trichloroethane	ND		62.5	48.44		ug/Kg	*	78	67 - 125
1,1,1,2-Tetrachloroethane	ND		62.5	36.78		ug/Kg	*	59	20 - 164
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		62.5	51.27		ug/Kg	*	82	62 - 125
1,1,2-Trichloroethane	ND		62.5	40.00		ug/Kg	*	64	52 - 134
1,1-Dichloroethane	ND		62.5	48.66		ug/Kg	*	78	66 - 125
1,1-Dichloroethene	ND		62.5	49.47		ug/Kg	*	79	60 - 125
1,1-Dichloropropene	ND		62.5	49.88		ug/Kg	*	80	69 - 125
1,2,3-Trichlorobenzene	ND		62.5	16.19		ug/Kg	*	26	20 - 145
1,2,3-Trichloropropane	ND		62.5	33.09		ug/Kg	*	53	53 - 128
1,2,4-Trichlorobenzene	ND		62.5	18.21		ug/Kg	*	29	20 - 146
1,2,4-Trimethylbenzene	ND		62.5	34.40		ug/Kg	*	55	51 - 129
1,2-Dibromo-3-Chloropropane	ND		62.5	29.94		ug/Kg	*	48	33 - 126
1,2-Dibromoethane	ND	F1	62.5	37.39	F1	ug/Kg	*	60	65 - 125
1,2-Dichlorobenzene	ND	F1	62.5	27.25	F1	ug/Kg	*	44	47 - 130
1,2-Dichloroethane	ND		62.5	41.62		ug/Kg	*	67	66 - 127
1,2-Dichloropropane	ND		62.5	44.41		ug/Kg	*	71	70 - 125
1,3,5-Trimethylbenzene	ND		62.5	36.38		ug/Kg	*	58	50 - 132
1,3-Dichlorobenzene	ND	F1	62.5	29.09	F1	ug/Kg	*	47	48 - 128
1,3-Dichloropropane	ND	F1	62.5	39.42	F1	ug/Kg	*	63	66 - 125
1,4-Dichlorobenzene	ND	F1	62.5	27.75	F1	ug/Kg	*	44	47 - 127
2,2-Dichloropropane	ND		62.5	50.86		ug/Kg	*	81	61 - 128
2-Butanone (MEK)	ND		62.5	37.52		ug/Kg	*	60	48 - 134
2-Chlorotoluene	ND	F1	62.5	34.52		ug/Kg	*	55	54 - 127
2-Hexanone	ND		62.5	33.13		ug/Kg	*	53	48 - 136
4-Chlorotoluene	ND		62.5	34.38		ug/Kg	*	55	54 - 125
4-Methyl-2-pentanone (MIBK)	ND		62.5	42.64		ug/Kg	*	68	55 - 133
Acetone	ND	F1	62.5	163.7	F1	ug/Kg	*	262	30 - 175
Benzene	ND		62.5	45.24		ug/Kg	*	72	70 - 125
Bromobenzene	ND	F1	62.5	34.47	F1	ug/Kg	*	55	57 - 129
Bromochloromethane	ND		62.5	45.61		ug/Kg	*	73	67 - 125
Bromodichloromethane	ND		62.5	42.24		ug/Kg	*	68	64 - 130
Bromoform	ND		62.5	33.54		ug/Kg	*	54	49 - 133
Bromomethane	ND		62.5	54.37		ug/Kg	*	87	30 - 149
cis-1,2-Dichloroethene	ND		62.5	47.59		ug/Kg	*	76	71 - 125
cis-1,3-Dichloropropene	ND		62.5	41.01		ug/Kg	*	66	63 - 126
Carbon disulfide	ND		62.5	44.25		ug/Kg	*	71	53 - 125
Carbon tetrachloride	ND		62.5	50.03		ug/Kg	*	80	60 - 130
Chlorobenzene	ND	F1	62.5	39.04	F1	ug/Kg	*	62	65 - 125

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-178099-18 MS

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: SB-05 COMPOSITE

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Chloroethane	ND		62.5	56.93		ug/Kg	*	91	51 - 131
Chloroform	ND		62.5	46.59		ug/Kg	*	75	70 - 125
Chloromethane	ND		62.5	54.15		ug/Kg	*	87	43 - 125
Dibromochloromethane	ND		62.5	39.09		ug/Kg	*	63	56 - 132
Dibromomethane	ND	F1	62.5	40.39	F1	ug/Kg	*	65	67 - 127
Dichlorodifluoromethane	ND		62.5	52.22		ug/Kg	*	84	47 - 127
Di-isopropyl ether (DIPE)	ND		62.5	46.06		ug/Kg	*	74	62 - 125
Ethanol	ND		625	466.1		ug/Kg	*	75	21 - 168
Ethylbenzene	ND		62.5	40.88		ug/Kg	*	65	64 - 125
Ethyl-t-butyl ether (ETBE)	ND		62.5	45.75		ug/Kg	*	73	61 - 125
Isopropylbenzene	ND		62.5	43.33		ug/Kg	*	69	59 - 129
Methylene Chloride	ND		62.5	43.65		ug/Kg	*	70	60 - 125
Methyl-t-Butyl Ether (MTBE)	ND		62.5	43.91		ug/Kg	*	70	61 - 125
Naphthalene	ND		62.5	17.70		ug/Kg	*	28	25 - 136
n-Butylbenzene	ND		62.5	35.16		ug/Kg	*	56	35 - 135
N-Propylbenzene	ND		62.5	38.72		ug/Kg	*	62	52 - 131
o-Xylene	ND		62.5	38.23		ug/Kg	*	61	59 - 128
m,p-Xylene	ND		125	80.11		ug/Kg	*	64	60 - 125
p-Isopropyltoluene	ND		62.5	36.16		ug/Kg	*	58	46 - 132
sec-Butylbenzene	ND		62.5	38.12		ug/Kg	*	61	47 - 131
Styrene	ND	F1	62.5	35.57	F1	ug/Kg	*	57	58 - 128
trans-1,2-Dichloroethene	ND		62.5	49.61		ug/Kg	*	79	67 - 125
trans-1,3-Dichloropropene	ND		62.5	37.64		ug/Kg	*	60	59 - 132
Tert-amyl-methyl ether (TAME)	ND		62.5	44.35		ug/Kg	*	71	66 - 127
tert-Butyl alcohol (TBA)	ND		312	255.5		ug/Kg	*	82	50 - 142
tert-Butylbenzene	ND		62.5	40.27		ug/Kg	*	64	53 - 126
Tetrachloroethene	ND		62.5	43.05		ug/Kg	*	69	62 - 129
Toluene	ND		62.5	43.86		ug/Kg	*	70	68 - 125
Trichloroethene	ND		62.5	47.30		ug/Kg	*	76	41 - 169
Trichlorofluoromethane	ND		62.5	57.55		ug/Kg	*	92	63 - 128
Vinyl acetate	ND	F1	62.5	ND	F1	ug/Kg	*	0	20 - 154
Vinyl chloride	ND		62.5	57.25		ug/Kg	*	92	59 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		32 - 179
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	100		58 - 147
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 570-178099-18 MSD

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: SB-05 COMPOSITE

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier						Limits
1,1,1,2-Tetrachloroethane	ND		61.6	38.60		ug/Kg	*	63	61 - 129	4	23
1,1,1-Trichloroethane	ND		61.6	45.55		ug/Kg	*	74	67 - 125	6	20
1,1,1,2,2-Tetrachloroethane	ND		61.6	34.99		ug/Kg	*	57	20 - 164	5	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		61.6	48.21		ug/Kg	*	78	62 - 125	6	20

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-178099-18 MSD

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: SB-05 COMPOSITE

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1,2-Trichloroethane	ND		61.6	41.12		ug/Kg	*	67	52 - 134	3	25
1,1-Dichloroethane	ND		61.6	46.19		ug/Kg	*	75	66 - 125	5	20
1,1-Dichloroethene	ND		61.6	47.44		ug/Kg	*	77	60 - 125	4	20
1,1-Dichloropropene	ND		61.6	46.88		ug/Kg	*	76	69 - 125	6	20
1,2,3-Trichlorobenzene	ND		61.6	15.80		ug/Kg	*	26	20 - 145	2	39
1,2,3-Trichloropropane	ND		61.6	32.72		ug/Kg	*	53	53 - 128	1	25
1,2,4-Trichlorobenzene	ND		61.6	18.42		ug/Kg	*	30	20 - 146	1	38
1,2,4-Trimethylbenzene	ND		61.6	32.14		ug/Kg	*	52	51 - 129	7	27
1,2-Dibromo-3-Chloropropane	ND		61.6	26.19		ug/Kg	*	42	33 - 126	13	29
1,2-Dibromoethane	ND	F1	61.6	35.90	F1	ug/Kg	*	58	65 - 125	4	21
1,2-Dichlorobenzene	ND	F1	61.6	25.95	F1	ug/Kg	*	42	47 - 130	5	29
1,2-Dichloroethane	ND		61.6	40.81		ug/Kg	*	66	66 - 127	2	20
1,2-Dichloropropane	ND		61.6	42.88		ug/Kg	*	70	70 - 125	4	20
1,3,5-Trimethylbenzene	ND		61.6	34.81		ug/Kg	*	56	50 - 132	4	29
1,3-Dichlorobenzene	ND	F1	61.6	28.66	F1	ug/Kg	*	47	48 - 128	1	28
1,3-Dichloropropane	ND	F1	61.6	40.18	F1	ug/Kg	*	65	66 - 125	2	20
1,4-Dichlorobenzene	ND	F1	61.6	27.41	F1	ug/Kg	*	44	47 - 127	1	28
2,2-Dichloropropane	ND		61.6	48.47		ug/Kg	*	79	61 - 128	5	20
2-Butanone (MEK)	ND		61.6	33.97		ug/Kg	*	55	48 - 134	10	24
2-Chlorotoluene	ND	F1	61.6	32.93	F1	ug/Kg	*	53	54 - 127	5	27
2-Hexanone	ND		61.6	36.02		ug/Kg	*	58	48 - 136	8	28
4-Chlorotoluene	ND		61.6	33.08		ug/Kg	*	54	54 - 125	4	26
4-Methyl-2-pentanone (MIBK)	ND		61.6	40.25		ug/Kg	*	65	55 - 133	6	23
Acetone	ND	F1	61.6	148.0	F1	ug/Kg	*	240	30 - 175	10	30
Benzene	ND		61.6	44.34		ug/Kg	*	72	70 - 125	2	20
Bromobenzene	ND	F1	61.6	32.52	F1	ug/Kg	*	53	57 - 129	6	26
Bromochloromethane	ND		61.6	44.59		ug/Kg	*	72	67 - 125	2	20
Bromodichloromethane	ND		61.6	40.88		ug/Kg	*	66	64 - 130	3	20
Bromoform	ND		61.6	32.80		ug/Kg	*	53	49 - 133	2	27
Bromomethane	ND		61.6	49.04		ug/Kg	*	80	30 - 149	10	31
cis-1,2-Dichloroethene	ND		61.6	45.61		ug/Kg	*	74	71 - 125	4	20
cis-1,3-Dichloropropene	ND		61.6	38.86		ug/Kg	*	63	63 - 126	5	20
Carbon disulfide	ND		61.6	41.13		ug/Kg	*	67	53 - 125	7	20
Carbon tetrachloride	ND		61.6	46.27		ug/Kg	*	75	60 - 130	8	20
Chlorobenzene	ND	F1	61.6	37.02	F1	ug/Kg	*	60	65 - 125	5	22
Chloroethane	ND		61.6	52.51		ug/Kg	*	85	51 - 131	8	21
Chloroform	ND		61.6	44.31		ug/Kg	*	72	70 - 125	5	20
Chloromethane	ND		61.6	50.41		ug/Kg	*	82	43 - 125	7	21
Dibromochloromethane	ND		61.6	39.01		ug/Kg	*	63	56 - 132	0	24
Dibromomethane	ND	F1	61.6	42.72		ug/Kg	*	69	67 - 127	6	20
Dichlorodifluoromethane	ND		61.6	48.68		ug/Kg	*	79	47 - 127	7	20
Di-isopropyl ether (DIPE)	ND		61.6	44.78		ug/Kg	*	73	62 - 125	3	20
Ethanol	ND		61.6	460.3		ug/Kg	*	75	21 - 168	1	40
Ethylbenzene	ND		61.6	39.23		ug/Kg	*	64	64 - 125	4	22
Ethyl-t-butyl ether (ETBE)	ND		61.6	44.48		ug/Kg	*	72	61 - 125	3	20
Isopropylbenzene	ND		61.6	41.19		ug/Kg	*	67	59 - 129	5	26
Methylene Chloride	ND		61.6	42.68		ug/Kg	*	69	60 - 125	2	20
Methyl-t-Butyl Ether (MTBE)	ND		61.6	43.29		ug/Kg	*	70	61 - 125	1	20
Naphthalene	ND		61.6	17.91		ug/Kg	*	29	25 - 136	1	32

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-178099-18 MSD

Matrix: Solid

Analysis Batch: 425661

Client Sample ID: SB-05 COMPOSITE

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
n-Butylbenzene	ND		61.6	32.03		ug/Kg	✱	52	35 - 135	9	35
N-Propylbenzene	ND		61.6	36.88		ug/Kg	✱	60	52 - 131	5	27
o-Xylene	ND		61.6	37.20		ug/Kg	✱	60	59 - 128	3	24
m,p-Xylene	ND		123	77.22		ug/Kg	✱	63	60 - 125	4	24
p-Isopropyltoluene	ND		61.6	32.60		ug/Kg	✱	53	46 - 132	10	30
sec-Butylbenzene	ND		61.6	34.90		ug/Kg	✱	57	47 - 131	9	30
Styrene	ND	F1	61.6	35.41	F1	ug/Kg	✱	57	58 - 128	0	24
trans-1,2-Dichloroethene	ND		61.6	46.81		ug/Kg	✱	76	67 - 125	6	20
trans-1,3-Dichloropropene	ND		61.6	36.71		ug/Kg	✱	60	59 - 132	3	22
Tert-amyl-methyl ether (TAME)	ND		61.6	44.13		ug/Kg	✱	72	66 - 127	0	20
tert-Butyl alcohol (TBA)	ND		308	231.6		ug/Kg	✱	75	50 - 142	10	27
tert-Butylbenzene	ND		61.6	35.38		ug/Kg	✱	57	53 - 126	13	28
Tetrachloroethene	ND		61.6	40.83		ug/Kg	✱	66	62 - 129	5	21
Toluene	ND		61.6	42.62		ug/Kg	✱	69	68 - 125	3	20
Trichloroethene	ND		61.6	44.20		ug/Kg	✱	72	41 - 169	7	21
Trichlorofluoromethane	ND		61.6	53.84		ug/Kg	✱	87	63 - 128	7	20
Vinyl acetate	ND	F1	61.6	ND	F1	ug/Kg	✱	0	20 - 154	NC	40
Vinyl chloride	ND		61.6	53.04		ug/Kg	✱	86	59 - 125	8	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		32 - 179
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	99		58 - 147
Toluene-d8 (Surr)	102		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 570-425723/5-A

Matrix: Solid

Analysis Batch: 425663

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 425723

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics	ND		100		ug/Kg		03/29/24 17:40	03/29/24 21:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		80 - 120	03/29/24 17:40	03/29/24 21:39	1

Lab Sample ID: LCS 570-425723/3-A

Matrix: Solid

Analysis Batch: 425663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 425723

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
TPPH	1000	1083		ug/Kg		108	65 - 135

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		80 - 120

# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 570-425723/4-A**  
**Matrix: Solid**  
**Analysis Batch: 425663**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 425723**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPPH	1000	1042		ug/Kg		104	65 - 135	4	30
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
Toluene-d8 (Surr)	96		80 - 120						

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 570-425301/1-A**  
**Matrix: Solid**  
**Analysis Batch: 427556**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 425301**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0		mg/Kg		03/28/24 18:26	04/05/24 21:19	1
TPH as Motor Oil (C17-C44)	ND		25		mg/Kg		03/28/24 18:26	04/05/24 21:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	103		60 - 138				03/28/24 18:26	04/05/24 21:19	1

**Lab Sample ID: LCS 570-425301/2-A**  
**Matrix: Solid**  
**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 425301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	400	421.3		mg/Kg		105	80 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	91		60 - 138				

**Lab Sample ID: LCS 570-425301/6-A**  
**Matrix: Solid**  
**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 425301**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TPH as Motor Oil (C17-C44)	400	417.2		mg/Kg		104	77 - 125
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	95		60 - 138				

**Lab Sample ID: LCSD 570-425301/3-A**  
**Matrix: Solid**  
**Analysis Batch: 427556**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 425301**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	412.6		mg/Kg		103	80 - 130	2	20

# QC Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 570-425301/3-A  
Matrix: Solid  
Analysis Batch: 427556

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 425301

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	91		60 - 138

Lab Sample ID: LCSD 570-425301/7-A  
Matrix: Solid  
Analysis Batch: 427556

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 425301

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	423.0		mg/Kg		106	77 - 125	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	94		60 - 138

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-426377/1-B ^5  
Matrix: Solid  
Analysis Batch: 426585

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 426377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.1		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Arsenic	ND		3.02		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Barium	ND		3.02		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Beryllium	ND		0.503		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Cadmium	ND		0.503		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Chromium	ND		1.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Cobalt	ND		1.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Copper	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Lead	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Molybdenum	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Nickel	ND		2.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Selenium	ND		3.02		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Silver	ND		1.51		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Thallium	ND		10.1		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Vanadium	ND		1.01		mg/Kg		04/02/24 06:45	04/02/24 14:33	5
Zinc	ND		5.03		mg/Kg		04/02/24 06:45	04/02/24 14:33	5

Lab Sample ID: LCS 570-426377/2-B ^5  
Matrix: Solid  
Analysis Batch: 426585

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 426377

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	49.8	42.39		mg/Kg		85	80 - 120
Arsenic	49.8	43.47		mg/Kg		87	80 - 120
Barium	49.8	44.65		mg/Kg		90	80 - 120
Beryllium	49.8	44.39		mg/Kg		89	80 - 120
Cadmium	49.8	44.56		mg/Kg		90	80 - 120
Chromium	49.8	44.85		mg/Kg		90	80 - 120
Cobalt	49.8	45.25		mg/Kg		91	80 - 120
Copper	49.8	44.96		mg/Kg		90	80 - 120

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 570-426377/2-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 426585**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 426377**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Lead	49.8	45.20		mg/Kg		91	80 - 120	
Molybdenum	49.8	44.23		mg/Kg		89	80 - 120	
Nickel	49.8	45.11		mg/Kg		91	80 - 120	
Selenium	49.8	44.37		mg/Kg		89	80 - 120	
Silver	24.9	22.36		mg/Kg		90	80 - 120	
Thallium	49.8	43.68		mg/Kg		88	80 - 120	
Vanadium	49.8	44.49		mg/Kg		89	80 - 120	
Zinc	49.8	44.50		mg/Kg		89	80 - 120	

**Lab Sample ID: LCSD 570-426377/3-B ^5**  
**Matrix: Solid**  
**Analysis Batch: 426585**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 426377**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
Antimony	49.8	42.41		mg/Kg		85	80 - 120	0	20	
Arsenic	49.8	43.46		mg/Kg		87	80 - 120	0	20	
Barium	49.8	44.55		mg/Kg		90	80 - 120	0	20	
Beryllium	49.8	44.24		mg/Kg		89	80 - 120	0	20	
Cadmium	49.8	44.04		mg/Kg		89	80 - 120	1	20	
Chromium	49.8	44.75		mg/Kg		90	80 - 120	0	20	
Cobalt	49.8	44.51		mg/Kg		89	80 - 120	2	20	
Copper	49.8	44.64		mg/Kg		90	80 - 120	1	20	
Lead	49.8	44.54		mg/Kg		90	80 - 120	1	20	
Molybdenum	49.8	44.27		mg/Kg		89	80 - 120	0	20	
Nickel	49.8	45.11		mg/Kg		91	80 - 120	0	20	
Selenium	49.8	42.91		mg/Kg		86	80 - 120	3	20	
Silver	24.9	22.30		mg/Kg		90	80 - 120	0	20	
Thallium	49.8	43.46		mg/Kg		87	80 - 120	1	20	
Vanadium	49.8	44.32		mg/Kg		89	80 - 120	0	20	
Zinc	49.8	43.97		mg/Kg		88	80 - 120	1	20	

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-426032/1-A**  
**Matrix: Solid**  
**Analysis Batch: 426219**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 426032**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0817		mg/Kg		04/01/24 08:13	04/01/24 13:02	1

**Lab Sample ID: LCS 570-426032/2-A**  
**Matrix: Solid**  
**Analysis Batch: 426219**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 426032**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Mercury	0.392	0.3986		mg/Kg		102	80 - 120	

# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-426032/3-A  
 Matrix: Solid  
 Analysis Batch: 426219

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 426032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.385	0.3976		mg/Kg		103	80 - 120	0	10

## Method: 2540G - Percent Moisture

Lab Sample ID: 570-178099-15 DU  
 Matrix: Solid  
 Analysis Batch: 425560

Client Sample ID: SB-01 COMPOSITE  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	25.4		25.9		%		2	10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# QC Association Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## GC/MS VOA

### Analysis Batch: 425661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	8260B	425723
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	8260B	425723
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	8260B	425723
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	8260B	425723
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	8260B	425723
MB 570-425723/5-A	Method Blank	Total/NA	Solid	8260B	425723
LCS 570-425723/1-A	Lab Control Sample	Total/NA	Solid	8260B	425723
LCSD 570-425723/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	425723
570-178099-18 MS	SB-05 COMPOSITE	Total/NA	Solid	8260B	425723
570-178099-18 MSD	SB-05 COMPOSITE	Total/NA	Solid	8260B	425723

### Analysis Batch: 425663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	8260B/CA_LUFT MS	425723
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	8260B/CA_LUFT MS	425723
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	8260B/CA_LUFT MS	425723
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	8260B/CA_LUFT MS	425723
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	8260B/CA_LUFT MS	425723
MB 570-425723/5-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	425723
LCS 570-425723/3-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	425723
LCSD 570-425723/4-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	425723

### Prep Batch: 425723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	5030C	
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	5030C	
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	5030C	
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	5030C	
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	5030C	
MB 570-425723/5-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-425723/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 570-425723/3-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-425723/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
LCSD 570-425723/4-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-178099-18 MS	SB-05 COMPOSITE	Total/NA	Solid	5030C	
570-178099-18 MSD	SB-05 COMPOSITE	Total/NA	Solid	5030C	

## GC Semi VOA

### Prep Batch: 425301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	3550C	
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	3550C	
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	3550C	
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	3550C	

# QC Association Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## GC Semi VOA (Continued)

### Prep Batch: 425301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	3550C	
MB 570-425301/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-425301/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 570-425301/6-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-425301/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 570-425301/7-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

### Analysis Batch: 427556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-425301/1-A	Method Blank	Total/NA	Solid	8015B	425301
LCS 570-425301/2-A	Lab Control Sample	Total/NA	Solid	8015B	425301
LCS 570-425301/6-A	Lab Control Sample	Total/NA	Solid	8015B	425301
LCSD 570-425301/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	425301
LCSD 570-425301/7-A	Lab Control Sample Dup	Total/NA	Solid	8015B	425301

### Analysis Batch: 428246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	8015B	425301
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	8015B	425301
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	8015B	425301
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	8015B	425301
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	8015B	425301

## Metals

### Prep Batch: 426032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	7471A	
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	7471A	
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	7471A	
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	7471A	
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	7471A	
MB 570-426032/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-426032/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-426032/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

### Analysis Batch: 426219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	7471A	426032
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	7471A	426032
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	7471A	426032
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	7471A	426032
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	7471A	426032
MB 570-426032/1-A	Method Blank	Total/NA	Solid	7471A	426032
LCS 570-426032/2-A	Lab Control Sample	Total/NA	Solid	7471A	426032
LCSD 570-426032/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	426032

### Prep Batch: 426377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	3050B	
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	3050B	

# QC Association Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Metals (Continued)

### Prep Batch: 426377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	3050B	
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	3050B	
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	3050B	
MB 570-426377/1-B ^5	Method Blank	Total/NA	Solid	3050B	
LCS 570-426377/2-B ^5	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-426377/3-B ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	

### Analysis Batch: 426585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-426377/1-B ^5	Method Blank	Total/NA	Solid	6010B	426377
LCS 570-426377/2-B ^5	Lab Control Sample	Total/NA	Solid	6010B	426377
LCSD 570-426377/3-B ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	426377

### Analysis Batch: 427509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	6010B	426377
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	6010B	426377
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	6010B	426377
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	6010B	426377
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	6010B	426377

## General Chemistry

### Analysis Batch: 425560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	Total/NA	Solid	2540G	
570-178099-16	SB-02 COMPOSITE	Total/NA	Solid	2540G	
570-178099-17	SB-03 COMPOSITE	Total/NA	Solid	2540G	
570-178099-18	SB-05 COMPOSITE	Total/NA	Solid	2540G	
570-178099-19	SB-06 COMPOSITE	Total/NA	Solid	2540G	
570-178099-15 DU	SB-01 COMPOSITE	Total/NA	Solid	2540G	

## Organic Prep

### Analysis Batch: 425620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-1	SB-01-3	Total/NA	Solid	Composite	
570-178099-2	SB-01-5	Total/NA	Solid	Composite	
570-178099-3	SB-01-10	Total/NA	Solid	Composite	
570-178099-5	SB-02-3	Total/NA	Solid	Composite	
570-178099-6	SB-02-5	Total/NA	Solid	Composite	
570-178099-7	SB-02-10	Total/NA	Solid	Composite	
570-178099-9	SB-03-3	Total/NA	Solid	Composite	
570-178099-10	SB-03-5	Total/NA	Solid	Composite	
570-178099-11	SB-05-3	Total/NA	Solid	Composite	
570-178099-12	SB-05-5	Total/NA	Solid	Composite	
570-178099-13	SB-06-3	Total/NA	Solid	Composite	
570-178099-14	SB-06-5	Total/NA	Solid	Composite	

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-01-3

Lab Sample ID: 570-178099-1

Date Collected: 03/22/24 09:40

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-01-5

Lab Sample ID: 570-178099-2

Date Collected: 03/22/24 10:25

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-01-10

Lab Sample ID: 570-178099-3

Date Collected: 03/22/24 10:40

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-02-3

Lab Sample ID: 570-178099-5

Date Collected: 03/22/24 08:05

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-02-5

Lab Sample ID: 570-178099-6

Date Collected: 03/22/24 08:20

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-02-10

Lab Sample ID: 570-178099-7

Date Collected: 03/22/24 09:05

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-03-3

Lab Sample ID: 570-178099-9

Date Collected: 03/22/24 12:30

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-03-5

Lab Sample ID: 570-178099-10

Date Collected: 03/22/24 12:45

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-05-3

Lab Sample ID: 570-178099-11

Date Collected: 03/22/24 13:55

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-05-5

Lab Sample ID: 570-178099-12

Date Collected: 03/22/24 14:05

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-06-3

Lab Sample ID: 570-178099-13

Date Collected: 03/22/24 13:30

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

## Client Sample ID: SB-06-5

Lab Sample ID: 570-178099-14

Date Collected: 03/22/24 13:40

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Composite		1			425620	03/29/24 14:52	KZX6	EET CAL 4
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-01 COMPOSITE

Lab Sample ID: 570-178099-15

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.12 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/29/24 23:46	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.12 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 g	5 mL	425663	03/29/24 23:46	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			10.12 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	428246	04/09/24 03:34	SP9M	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			1.96 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:33	P1R	EET CAL 4
Instrument ID: ICP11										
Total/NA	Prep	7471A			0.50 g	50 mL	426032	04/01/24 08:13	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 13:17	ECX6	EET CAL 4
Instrument ID: HG7										
Total/NA	Analysis	2540G		1			425560	03/29/24 12:26	B4QL	EET CAL 4
Instrument ID: BAL62										

## Client Sample ID: SB-02 COMPOSITE

Lab Sample ID: 570-178099-16

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.10 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/30/24 00:07	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.10 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 g	5 mL	425663	03/30/24 00:07	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			10.49 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	428246	04/09/24 03:56	SP9M	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			2.01 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:35	P1R	EET CAL 4
Instrument ID: ICP11										
Total/NA	Prep	7471A			0.51 g	50 mL	426032	04/01/24 08:13	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 13:19	ECX6	EET CAL 4
Instrument ID: HG7										
Total/NA	Analysis	2540G		1			425560	03/29/24 12:26	B4QL	EET CAL 4
Instrument ID: BAL62										

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Client Sample ID: SB-03 COMPOSITE

Lab Sample ID: 570-178099-17

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/30/24 00:28	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.04 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 g	5 mL	425663	03/30/24 00:28	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			9.93 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	428246	04/09/24 04:19	SP9M	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			1.99 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:37	P1R	EET CAL 4
Instrument ID: ICP11										
Total/NA	Prep	7471A			0.51 g	50 mL	426032	04/01/24 08:13	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 13:24	ECX6	EET CAL 4
Instrument ID: HG7										
Total/NA	Analysis	2540G		1			425560	03/29/24 12:26	B4QL	EET CAL 4
Instrument ID: BAL62										

## Client Sample ID: SB-05 COMPOSITE

Lab Sample ID: 570-178099-18

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.21 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/29/24 22:21	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.21 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 g	5 mL	425663	03/29/24 22:21	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			9.77 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	428246	04/09/24 04:41	SP9M	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			1.97 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:40	P1R	EET CAL 4
Instrument ID: ICP11										
Total/NA	Prep	7471A			0.53 g	50 mL	426032	04/01/24 08:13	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 13:26	ECX6	EET CAL 4
Instrument ID: HG7										
Total/NA	Analysis	2540G		1			425560	03/29/24 12:26	B4QL	EET CAL 4
Instrument ID: BAL62										

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

**Client Sample ID: SB-06 COMPOSITE**

**Lab Sample ID: 570-178099-19**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.15 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	425661	03/30/24 00:50	NR	EET CAL 4
Instrument ID: GCMSLL										
Total/NA	Prep	5030C			5.15 g	5 mL	425723	03/29/24 19:08	NR	EET CAL 4
Total/NA	Analysis	8260B/CA_LUFTM S		1	5 g	5 mL	425663	03/30/24 00:50	NR	EET CAL 4
Instrument ID: GCMSLL_TPH										
Total/NA	Prep	3550C			10.41 g	10 mL	425301	03/28/24 18:26	JE	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	428246	04/09/24 05:48	SP9M	EET CAL 4
Instrument ID: GC50										
Total/NA	Prep	3050B			1.98 g	50 mL	426377	04/02/24 07:15	GYR8	EET CAL 4
Total/NA	Analysis	6010B		5			427509	04/04/24 18:42	P1R	EET CAL 4
Instrument ID: ICP11										
Total/NA	Prep	7471A			0.53 g	50 mL	426032	04/01/24 08:13	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			426219	04/01/24 13:28	ECX6	EET CAL 4
Instrument ID: HG7										
Total/NA	Analysis	2540G		1			425560	03/29/24 12:26	B4QL	EET CAL 4
Instrument ID: BAL62										

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
8260B	5030C	Solid	1,1,2-Trichloro-1,2,2-trifluoroethane
8260B	5030C	Solid	1,1-Dichloropropene
8260B	5030C	Solid	1,2,3-Trichlorobenzene
8260B	5030C	Solid	1,2,4-Trimethylbenzene
8260B	5030C	Solid	1,3,5-Trimethylbenzene
8260B	5030C	Solid	1,3-Dichloropropane
8260B	5030C	Solid	2,2-Dichloropropane
8260B	5030C	Solid	2-Butanone (MEK)
8260B	5030C	Solid	2-Chlorotoluene
8260B	5030C	Solid	2-Hexanone
8260B	5030C	Solid	Acetone
8260B	5030C	Solid	Ethanol
8260B	5030C	Solid	Isopropylbenzene
8260B	5030C	Solid	p-Isopropyltoluene
8260B	5030C	Solid	Vinyl acetate
Composite		Solid	Composited

# Method Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8260B/CA_LUFTMS	Volatile Organic Compounds by GC/MS	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6010B	Metals (ICP)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
2540G	Percent Moisture	SM	EET CAL 4
Composite	Sample Compositing	None	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

**Protocol References:**

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-178099-1	SB-01-3	Solid	03/22/24 09:40	03/27/24 10:00
570-178099-2	SB-01-5	Solid	03/22/24 10:25	03/27/24 10:00
570-178099-3	SB-01-10	Solid	03/22/24 10:40	03/27/24 10:00
570-178099-5	SB-02-3	Solid	03/22/24 08:05	03/27/24 10:00
570-178099-6	SB-02-5	Solid	03/22/24 08:20	03/27/24 10:00
570-178099-7	SB-02-10	Solid	03/22/24 09:05	03/27/24 10:00
570-178099-9	SB-03-3	Solid	03/22/24 12:30	03/27/24 10:00
570-178099-10	SB-03-5	Solid	03/22/24 12:45	03/27/24 10:00
570-178099-11	SB-05-3	Solid	03/22/24 13:55	03/27/24 10:00
570-178099-12	SB-05-5	Solid	03/22/24 14:05	03/27/24 10:00
570-178099-13	SB-06-3	Solid	03/22/24 13:30	03/27/24 10:00
570-178099-14	SB-06-5	Solid	03/22/24 13:40	03/27/24 10:00
570-178099-15	SB-01 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-16	SB-02 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-17	SB-03 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-18	SB-05 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-19	SB-06 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00

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Regulatory Program  DW  NPDES  RCRA  Other

Eurofins Envir

Eurofins' services under this CoC shall be performed in accordance with the T&Cs within Blanket Service Agreement# 2022-24 by and between Haley & Aldrich Inc its subsidiaries and affiliates and Eurofins Northern California, LLC and its named affil. Environment Testing Northeast, LLC Eurofins Environment Testing North Central LLC and Eurofins Environment Testing Southwest LLC

Client Contact		H&A Project Manager: K.Loeb				H&A Site Contact: A.Caveney				Date: 3/22/24		COC No	
Haley & Aldrich K.Loeb		Tel/Fax: T: 925.433.2302				Lab Contact: Virendra Patel				Carrier:		1 of 2 COCs	
Address: 6455 Almaden Expressway   Suite 100		Analysis Turnaround Time				Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOCs and TPH-g Method 8260		TPH-diesel and as motor oil using USEPA Method 8015B		CAM17 Metals		Sampler: A.Caveney	
City/State/Zip San Jose, CA 95120		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS										For Lab Use Only:	
Phone (925) 935-9771		TAT if different from Below _____ H&A STD _____										Walk-in Client:	
FAX (925) 979-1456		<input type="checkbox"/> 2 weeks										Lab Sampling	
H&A Project Number 0207599-001-001-02		<input type="checkbox"/> 1 week										Job / SDG No	
Site 400-408 Gilman St, Berkeley, CA 94710		<input type="checkbox"/> 2 days											
H&A P O # 0207599-001-001-02		<input type="checkbox"/> 1 day										Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.							
SB-01-3		3/22/2024	0940	G	S	2	N	N	X	X	X		
SB-01-5			1025			2							Composite for ANALYSIS
SB-01-10			1040			2							
SB-01-15			1055			2							PUT ON HOLD
SB-02-3			0805			2							Composite for ANALYSIS
SB-02-5			0820			3							
SB-02-10			0905			2							PUT ON HOLD
SB-02-14			0900			2							PUT ON HOLD
SB-03-3			1230			2							Composite for ANALYSIS
SB-03-5			1245			2							Composite for ANALYSIS
SB-05-3			1355			2							Composite for ANALYSIS
SB-05-5			1405			2							Composite for ANALYSIS

**Possible Hazard Identification:**  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Un



Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:** Send results to Klob@haleyaldrich.com  
H&A Equis 4-file EDD required, Report Dry weight, Report to the RL

570-178099 Chain of Custody

2.6/2.6 5012

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd. _____ Corr'd. _____		Therm ID No. _____	
Relinquished by: <i>A. Caveney</i>	Company: <i>H&amp;A</i>	Date/Time: <i>3/22/24 1500</i>	Received by: <i>[Signature]</i>	Company: <i>ES</i>	Date/Time: <i>3/22/24 1500</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Company: <i>ES</i>	Date/Time: <i>3/22/24 16:30</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date/Time: <i>3/27/24</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>
Relinquished by: _____	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____	Date/Time: <i>3/27/24</i>	Received by: _____	Company: _____

Regulatory Program  DW  NPDES  RCRA  Other

Euofins Environment Testing

Euofins' services under this CoC shall be performed in accordance with the T&Cs within Blanket Service Agreement# 2022-24 by and between Haley & Aldrich Inc its subsidiaries and affiliates and Euofins Northern California, LLC and its named affiliates Euofins Environment Testing Northeast, LLC Euofins Environment Testing North Central LLC and Euofins Environment Testing Southwest LLC

<b>Client Contact</b>		<b>H&amp;A Project Manager: K.Loeb</b>		<b>H&amp;A Site Contact: A.Caveney</b>		<b>Date: 3/22/24</b>		<b>COC No</b>	
Haley & Aldrich K.Loeb		Tel/Fax: T: 925.433.2302		Lab Contact: Virendra Patel		Carrier:		2 of 2 COCs	
Address 6455 Almaden Expressway   Suite 100		<b>Analysis Turnaround Time</b>							
City/State/Zip San Jose, CA 95120		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS							
Phone (925) 935-9771		TAT if different from Below _____ H&A STD _____							
FAX (925) 979-1456		<input type="checkbox"/> 2 weeks							
H&A Project Number 0207599-001-001-02		<input type="checkbox"/> 1 week							
Site. 400-408 Gilman St, Berkeley, CA 94710		<input type="checkbox"/> 2 days							
H&A P O # 0207599-001-001-02		<input type="checkbox"/> 1 day							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	VOCs and TPH-g Method 8260	TPH-diesel and as motor oil using USEPA Method 8015B	CAM17 Metals	Sample Specific Notes.										
13 SB-06-3	3/22/2024	1330	G	S	2	N	N	X	X	X	COMPOSITE										
14 SB-06-5	3/22/24	1340	G	S	2	N	N	X	X	X	FOR ANALYSIS										
<del>_____</del>												<del>_____</del>									

AC

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammabl  Skin Irritant  Poison B  Unknown  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:** Send results to kloeb@haleyaldrich.com, acaveney@haleyaldrich.com, H&A Equis 4-file EDD required, Report Dry weight, Report to the RL

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd. _____		Therm ID No. _____	
Relinquished by: <i>Alicia Caveney</i>	Company: H&A	Date/Time: 3/22/24 1500	Received by: <i>[Signature]</i>	Company: ECS	Date/Time: 3/22/24 1500	Received in Laboratory by: <i>[Signature]</i>	Company: ECS
Relinquished by: <i>[Signature]</i>	Company: ECS	Date/Time: 3/22/24 16:30	Received by: <i>[Signature]</i>	Company: ECS	Date/Time: 3/27/24	Received in Laboratory by: <i>[Signature]</i>	Company: ECS
Relinquished by: _____	Company: _____	Date/Time: _____	Received by: _____	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____

## Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 570-178099-1

**Login Number: 178099**

**List Number: 1**

**Creator: Gonzalez, Juan**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kevin Loeb  
Haley & Aldrich, Inc.  
2033 North Main Street  
Suite 309  
Walnut Creek, California 94596

Generated 4/19/2024 11:57:58 AM

## JOB DESCRIPTION

Tom Bates – Env. Sampling Berkeley

## JOB NUMBER

570-178099-2

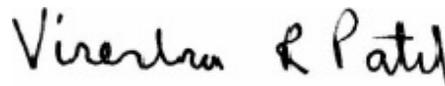
# Eurofins Calscience

## Job Notes

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

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

## Authorization



Generated  
4/19/2024 11:57:58 AM

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Authorized for release by  
Virendra Patel, Project Manager I  
[Virendra.Patel@et.eurofinsus.com](mailto:Virendra.Patel@et.eurofinsus.com)  
(714)895-5494



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## Definitions/Glossary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Haley & Aldrich, Inc.  
Project: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

**Job ID: 570-178099-2**

**Eurofins Calscience**

## Job Narrative 570-178099-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 3/27/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

### Metals

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

# Detection Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Client Sample ID: SB-01 COMPOSITE

Lab Sample ID: 570-178099-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.940		0.500		mg/L	1		6010B	TCLP
Lead	21.3		1.00		mg/L	1		6010B	STLC Citrate

## Client Sample ID: SB-02 COMPOSITE

Lab Sample ID: 570-178099-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	2.85		1.00		mg/L	1		6010B	STLC Citrate

## Client Sample ID: SB-03 COMPOSITE

Lab Sample ID: 570-178099-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.96		1.00		mg/L	1		6010B	STLC Citrate

## Client Sample ID: SB-05 COMPOSITE

Lab Sample ID: 570-178099-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.29		1.00		mg/L	1		6010B	STLC Citrate

## Client Sample ID: SB-06 COMPOSITE

Lab Sample ID: 570-178099-19

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

# Client Sample Results

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Method: SW846 6010B - Metals (ICP) - TCLP

Client Sample ID: SB-01 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.940		0.500		mg/L		04/15/24 10:30	04/15/24 19:53	1
Chromium	ND		0.500		mg/L		04/15/24 10:30	04/15/24 19:53	1

Client Sample ID: SB-02 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500		mg/L		04/17/24 10:51	04/18/24 10:48	1
Chromium	ND		0.500		mg/L		04/17/24 10:51	04/18/24 10:48	1

Client Sample ID: SB-03 COMPOSITE

Date Collected: 03/22/24 00:00

Date Received: 03/27/24 10:00

Lab Sample ID: 570-178099-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500		mg/L		04/17/24 10:51	04/18/24 10:51	1

# Client Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Method: SW846 6010B - Metals (ICP) - STLC Citrate

**Client Sample ID: SB-01 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-15**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21.3		1.00		mg/L		04/16/24 13:15	04/16/24 19:40	1
Chromium	ND		1.00		mg/L		04/16/24 13:15	04/16/24 19:40	1

**Client Sample ID: SB-02 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-16**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.00		mg/L		04/16/24 13:15	04/16/24 19:42	1
Copper	ND		1.00		mg/L		04/16/24 13:15	04/16/24 19:42	1
Chromium	2.85		1.00		mg/L		04/16/24 13:15	04/16/24 19:42	1

**Client Sample ID: SB-03 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-17**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.96		1.00		mg/L		04/16/24 13:15	04/16/24 19:45	1

**Client Sample ID: SB-05 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.29		1.00		mg/L		04/16/24 13:15	04/16/24 19:47	1

**Client Sample ID: SB-06 COMPOSITE**

**Date Collected: 03/22/24 00:00**

**Date Received: 03/27/24 10:00**

**Lab Sample ID: 570-178099-19**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.00		mg/L		04/16/24 13:15	04/16/24 19:49	1

# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Method: 6010B - Metals (ICP)

**Lab Sample ID: LB 570-429896/1-D**  
**Matrix: Solid**  
**Analysis Batch: 430930**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 430859**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500		mg/L		04/15/24 10:30	04/15/24 19:44	1
Chromium	ND		0.500		mg/L		04/15/24 10:30	04/15/24 19:44	1

**Lab Sample ID: LCS 570-429896/2-D**  
**Matrix: Solid**  
**Analysis Batch: 430930**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 430859**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.00	1.983		mg/L		99	80 - 120
Chromium	2.00	1.984		mg/L		99	80 - 120

**Lab Sample ID: LCSD 570-429896/3-D**  
**Matrix: Solid**  
**Analysis Batch: 430930**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: TCLP**  
**Prep Batch: 430859**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	2.00	1.976		mg/L		99	80 - 120	0	20
Chromium	2.00	1.969		mg/L		98	80 - 120	1	20

**Lab Sample ID: 570-178099-15 MS**  
**Matrix: Solid**  
**Analysis Batch: 430930**

**Client Sample ID: SB-01 COMPOSITE**  
**Prep Type: TCLP**  
**Prep Batch: 430859**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.940		2.00	2.745		mg/L		90	84 - 120
Chromium	ND		2.00	1.891		mg/L		95	86 - 122

**Lab Sample ID: 570-178099-15 MSD**  
**Matrix: Solid**  
**Analysis Batch: 430930**

**Client Sample ID: SB-01 COMPOSITE**  
**Prep Type: TCLP**  
**Prep Batch: 430859**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.940		2.00	2.938		mg/L		100	84 - 120	7	7
Chromium	ND		2.00	1.981		mg/L		99	86 - 122	5	8

**Lab Sample ID: LB 570-431144/1-B**  
**Matrix: Solid**  
**Analysis Batch: 432024**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 431517**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500		mg/L		04/17/24 10:51	04/18/24 10:01	1
Chromium	ND		0.500		mg/L		04/17/24 10:51	04/18/24 10:01	1

**Lab Sample ID: LCS 570-431144/2-B**  
**Matrix: Solid**  
**Analysis Batch: 432024**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 431517**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	2.00	1.976		mg/L		99	80 - 120
Chromium	2.00	2.005		mg/L		100	80 - 120

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# QC Sample Results

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Method: 6010B - Metals (ICP)

**Lab Sample ID: LCSD 570-431144/3-B**  
**Matrix: Solid**  
**Analysis Batch: 432024**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: TCLP**  
**Prep Batch: 431517**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	RPD	Limit
Lead	2.00	1.924		mg/L		96	80 - 120	3	20	
Chromium	2.00	2.101		mg/L		105	80 - 120	5	20	

**Lab Sample ID: LB4 570-430434/1-E**  
**Matrix: Solid**  
**Analysis Batch: 431366**

**Client Sample ID: Method Blank**  
**Prep Type: STLC Citrate**  
**Prep Batch: 431177**

Analyte	LB4		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		1.00		mg/L		04/16/24 13:15	04/16/24 18:50	1
Copper	ND		1.00		mg/L		04/16/24 13:15	04/16/24 18:50	1
Chromium	ND		1.00		mg/L		04/16/24 13:15	04/16/24 18:50	1

**Lab Sample ID: LCS 570-430434/2-D**  
**Matrix: Solid**  
**Analysis Batch: 431366**

**Client Sample ID: Lab Control Sample**  
**Prep Type: STLC Citrate**  
**Prep Batch: 431177**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Lead	20.0	18.82		mg/L		94	80 - 120	
Copper	20.0	20.26		mg/L		101	80 - 120	
Chromium	20.0	19.27		mg/L		96	80 - 120	

**Lab Sample ID: LCSD 570-430434/3-C**  
**Matrix: Solid**  
**Analysis Batch: 431366**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: STLC Citrate**  
**Prep Batch: 431177**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits	RPD	RPD	Limit
Lead	20.0	19.56		mg/L		98	80 - 120	4	20	
Copper	20.0	21.04		mg/L		105	80 - 120	4	20	
Chromium	20.0	20.16		mg/L		101	80 - 120	5	20	

# QC Association Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Metals

### Leach Batch: 429896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	TCLP	Solid	1311	
LB 570-429896/1-D	Method Blank	TCLP	Solid	1311	
LCS 570-429896/2-D	Lab Control Sample	TCLP	Solid	1311	
LCSD 570-429896/3-D	Lab Control Sample Dup	TCLP	Solid	1311	
570-178099-15 MS	SB-01 COMPOSITE	TCLP	Solid	1311	
570-178099-15 MSD	SB-01 COMPOSITE	TCLP	Solid	1311	

### Leach Batch: 430434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	STLC Citrate	Solid	CA WET Citrate	
570-178099-16	SB-02 COMPOSITE	STLC Citrate	Solid	CA WET Citrate	
570-178099-17	SB-03 COMPOSITE	STLC Citrate	Solid	CA WET Citrate	
570-178099-18	SB-05 COMPOSITE	STLC Citrate	Solid	CA WET Citrate	
570-178099-19	SB-06 COMPOSITE	STLC Citrate	Solid	CA WET Citrate	
LB4 570-430434/1-E	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 570-430434/2-D	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
LCSD 570-430434/3-C	Lab Control Sample Dup	STLC Citrate	Solid	CA WET Citrate	

### Prep Batch: 430859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	TCLP	Solid	3010A	429896
LB 570-429896/1-D	Method Blank	TCLP	Solid	3010A	429896
LCS 570-429896/2-D	Lab Control Sample	TCLP	Solid	3010A	429896
LCSD 570-429896/3-D	Lab Control Sample Dup	TCLP	Solid	3010A	429896
570-178099-15 MS	SB-01 COMPOSITE	TCLP	Solid	3010A	429896
570-178099-15 MSD	SB-01 COMPOSITE	TCLP	Solid	3010A	429896

### Analysis Batch: 430930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	TCLP	Solid	6010B	430859
LB 570-429896/1-D	Method Blank	TCLP	Solid	6010B	430859
LCS 570-429896/2-D	Lab Control Sample	TCLP	Solid	6010B	430859
LCSD 570-429896/3-D	Lab Control Sample Dup	TCLP	Solid	6010B	430859
570-178099-15 MS	SB-01 COMPOSITE	TCLP	Solid	6010B	430859
570-178099-15 MSD	SB-01 COMPOSITE	TCLP	Solid	6010B	430859

### Leach Batch: 431144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-16	SB-02 COMPOSITE	TCLP	Solid	1311	
570-178099-17	SB-03 COMPOSITE	TCLP	Solid	1311	
LB 570-431144/1-B	Method Blank	TCLP	Solid	1311	
LCS 570-431144/2-B	Lab Control Sample	TCLP	Solid	1311	
LCSD 570-431144/3-B	Lab Control Sample Dup	TCLP	Solid	1311	

### Prep Batch: 431177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	STLC Citrate	Solid	Dilution	430434
570-178099-16	SB-02 COMPOSITE	STLC Citrate	Solid	Dilution	430434
570-178099-17	SB-03 COMPOSITE	STLC Citrate	Solid	Dilution	430434
570-178099-18	SB-05 COMPOSITE	STLC Citrate	Solid	Dilution	430434
570-178099-19	SB-06 COMPOSITE	STLC Citrate	Solid	Dilution	430434

# QC Association Summary

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Metals (Continued)

### Prep Batch: 431177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 570-430434/1-E	Method Blank	STLC Citrate	Solid	Dilution	430434
LCS 570-430434/2-D	Lab Control Sample	STLC Citrate	Solid	Dilution	430434
LCSD 570-430434/3-C	Lab Control Sample Dup	STLC Citrate	Solid	Dilution	430434

### Analysis Batch: 431366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-15	SB-01 COMPOSITE	STLC Citrate	Solid	6010B	431177
570-178099-16	SB-02 COMPOSITE	STLC Citrate	Solid	6010B	431177
570-178099-17	SB-03 COMPOSITE	STLC Citrate	Solid	6010B	431177
570-178099-18	SB-05 COMPOSITE	STLC Citrate	Solid	6010B	431177
570-178099-19	SB-06 COMPOSITE	STLC Citrate	Solid	6010B	431177
LB4 570-430434/1-E	Method Blank	STLC Citrate	Solid	6010B	431177
LCS 570-430434/2-D	Lab Control Sample	STLC Citrate	Solid	6010B	431177
LCSD 570-430434/3-C	Lab Control Sample Dup	STLC Citrate	Solid	6010B	431177

### Prep Batch: 431517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-16	SB-02 COMPOSITE	TCLP	Solid	3010A	431144
570-178099-17	SB-03 COMPOSITE	TCLP	Solid	3010A	431144
LB 570-431144/1-B	Method Blank	TCLP	Solid	3010A	431144
LCS 570-431144/2-B	Lab Control Sample	TCLP	Solid	3010A	431144
LCSD 570-431144/3-B	Lab Control Sample Dup	TCLP	Solid	3010A	431144

### Analysis Batch: 432024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-178099-16	SB-02 COMPOSITE	TCLP	Solid	6010B	431517
570-178099-17	SB-03 COMPOSITE	TCLP	Solid	6010B	431517
LB 570-431144/1-B	Method Blank	TCLP	Solid	6010B	431517
LCS 570-431144/2-B	Lab Control Sample	TCLP	Solid	6010B	431517
LCSD 570-431144/3-B	Lab Control Sample Dup	TCLP	Solid	6010B	431517

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
 Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Client Sample ID: SB-01 COMPOSITE

Lab Sample ID: 570-178099-15

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.07 g	500 mL	430434	04/13/24 13:27	XBO9	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 g	10 mL	431177	04/16/24 13:15	VZOK	EET CAL 4
STLC Citrate	Analysis	6010B		1			431366	04/16/24 19:40	K1UV	EET CAL 4
Instrument ID: ICP11										
TCLP	Leach	1311			100.05 g	2000 mL	429896	04/12/24 07:00	XBO9	EET CAL 4
TCLP	Prep	3010A			5 mL	50 mL	430859	04/15/24 10:30	BG9Y	EET CAL 4
TCLP	Analysis	6010B		1			430930	04/15/24 19:53	K1UV	EET CAL 4
Instrument ID: ICP10										

## Client Sample ID: SB-02 COMPOSITE

Lab Sample ID: 570-178099-16

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.07 g	500 mL	430434	04/13/24 13:27	XBO9	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 g	10 mL	431177	04/16/24 13:15	VZOK	EET CAL 4
STLC Citrate	Analysis	6010B		1			431366	04/16/24 19:42	K1UV	EET CAL 4
Instrument ID: ICP11										
TCLP	Leach	1311			100.21 g	2000 mL	431144	04/16/24 11:50	BG9Y	EET CAL 4
TCLP	Prep	3010A			5 mL	50 mL	431517	04/17/24 10:51	BG9Y	EET CAL 4
TCLP	Analysis	6010B		1			432024	04/18/24 10:48	UFLE	EET CAL 4
Instrument ID: ICP10										

## Client Sample ID: SB-03 COMPOSITE

Lab Sample ID: 570-178099-17

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.03 g	500 mL	430434	04/13/24 13:27	XBO9	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 g	10 mL	431177	04/16/24 13:15	VZOK	EET CAL 4
STLC Citrate	Analysis	6010B		1			431366	04/16/24 19:45	K1UV	EET CAL 4
Instrument ID: ICP11										
TCLP	Leach	1311			54.34 g	1080 mL	431144	04/16/24 11:50	BG9Y	EET CAL 4
TCLP	Prep	3010A			5 mL	50 mL	431517	04/17/24 10:51	BG9Y	EET CAL 4
TCLP	Analysis	6010B		1			432024	04/18/24 10:51	UFLE	EET CAL 4
Instrument ID: ICP10										

## Client Sample ID: SB-05 COMPOSITE

Lab Sample ID: 570-178099-18

Date Collected: 03/22/24 00:00

Matrix: Solid

Date Received: 03/27/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.06 g	500 mL	430434	04/13/24 13:27	XBO9	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 g	10 mL	431177	04/16/24 13:15	VZOK	EET CAL 4
STLC Citrate	Analysis	6010B		1			431366	04/16/24 19:47	K1UV	EET CAL 4
Instrument ID: ICP11										

# Lab Chronicle

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

**Client Sample ID: SB-06 COMPOSITE**

**Lab Sample ID: 570-178099-19**

**Date Collected: 03/22/24 00:00**

**Matrix: Solid**

**Date Received: 03/27/24 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.02 g	500 mL	430434	04/13/24 13:27	XBO9	EET CAL 4
STLC Citrate	Prep	Dilution			0.5 g	10 mL	431177	04/16/24 13:15	VZOK	EET CAL 4
STLC Citrate	Analysis	6010B		1			431366	04/16/24 19:49	K1UV	EET CAL 4

Instrument ID: ICP11

<sup>1</sup> This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



# Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

## Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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

# Method Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	EET CAL 4
1311	TCLP Extraction	SW846	EET CAL 4
3010A	Preparation, Total Metals	SW846	EET CAL 4
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	EET CAL 4
Dilution	Preparation / Dilution Process	None	EET CAL 4

**Protocol References:**

CA-WET = California Waste Extraction Test, from Title 22

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494



# Sample Summary

Client: Haley & Aldrich, Inc.  
Project/Site: Tom Bates – Env. Sampling Berkeley

Job ID: 570-178099-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-178099-15	SB-01 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-16	SB-02 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-17	SB-03 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-18	SB-05 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00
570-178099-19	SB-06 COMPOSITE	Solid	03/22/24 00:00	03/27/24 10:00

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

## Virendra Patel

---

**From:** Caveney, Akash <ACaveney@haleyaldrich.com>  
**Sent:** Wednesday, April 10, 2024 11:24 AM  
**To:** Virendra Patel  
**Cc:** Loeb, Kevin; Godard, Vanessa  
**Subject:** RE: Eurofins Calscience report deliverable for job 570-178099-1 Tom Bates – Env. Sampling Berkeley

**CAUTION: EXTERNAL EMAIL** - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Virendra,

Thank you for sending this analytical report. We would like to request the following analyses:

- SB-01 Composite:
  - Chromium STLC and TCLP
  - Lead STLC and TCLP
- SB-02 Composite:
  - Chromium STLC and TCLP
  - Copper STLC
  - Lead STLC and TCLP
- SB-03 Composite:
  - Lead STLC and TCLP
- SB-05 Composite:
  - Lead STLC
- SB-06 Composite:
  - Chromium STLC

Please let us know if you have any questions.

Thanks,  
Akash

Akash Caveney  
T: (408) 961-4814  
C: (408) 334-3182

---

**From:** Virendra Patel <TALS@reports.et.eurofinsus.com>  
**Sent:** Tuesday, April 9, 2024 5:31 PM  
**To:** Caveney, Akash <ACaveney@haleyaldrich.com>; Loeb, Kevin <KLoeb@haleyaldrich.com>; Brinigar, Ryan <RBrinigar@haleyaldrich.com>  
**Subject:** Eurofins Calscience report deliverable for job 570-178099-1 Tom Bates – Env. Sampling Berkeley

**CAUTION: External Email**

---

Hello,

Attached please find the report files for job 570-178099-1; Tom Bates – Env. Sampling Berkeley

The samples were received on 3/27/2024 10:00 AM.

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

Thank you.

**Virendra Patel**

Project Manager

Eurofins Calscience

Phone: 714-895-5494

Mobile: 714-887-9901

E-mail: [Virendra.Patel@et.eurofinsus.com](mailto:Virendra.Patel@et.eurofinsus.com)

[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-628506]

Attachments: 1

- 1
- 2
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Regulatory Program  DW  NPDES  RCRA  Other

Envirofins Envir

Envirofins' services under this CoC shall be performed in accordance with the T&Cs within Blanket Service Agreement# 2022-24 by and between Haley & Aldrich Inc its subsidiaries and affiliates and Envirofins Northern California, LLC and its named affiliate Environment Testing Northeast, LLC Envirofins Environment Testing North Central LLC and Envirofins Environment Testing Southwest LLC

Client Contact		H&A Project Manager: K.Loeb				H&A Site Contact: A.Caveney				Date: 3/22/24		COC No	
Haley & Aldrich K.Loeb		Tel/Fax: T: 925.433.2302				Lab Contact: Virendra Patel				Carrier:		1 of 2 COCs	
Address: 6455 Almaden Expressway   Suite 100		Analysis Turnaround Time				Filtered Sample (Y/N) Perform MS / MSD (Y/N) VOCs and TPH-g Method 8260		TPH-diesel and as motor oil using USEPA Method 8015B		CAM17 Metals		Sampler: A.Caveney	
City/State/Zip San Jose, CA 95120		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS										For Lab Use Only:	
Phone (925) 935-9771		TAT if different from Below H&A STD										Walk-in Client:	
FAX (925) 979-1456		<input type="checkbox"/> 2 weeks										Lab Sampling	
H&A Project Number 0207599-001-001-02		<input type="checkbox"/> 1 week										Job / SDG No	
Site 400-408 Gilman St, Berkeley, CA 94710		<input type="checkbox"/> 2 days											
H&A P O # 0207599-001-001-02		<input type="checkbox"/> 1 day										Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.							
SB-01-3		3/22/2024	0940	G	S	2	N	N	X	X	X		
SB-01-5			1025			2							] COMPOSITE FOR ANALYSIS
SB-01-10			1040			2							
SB-01-15			1055			2							
SB-02-3			0805			2							] COMPOSITE FOR ANALYSIS
SB-02-5			0820			3							
SB-02-10			0905			2							PUT ON HOLD
SB-02-14			0900			2							PUT ON HOLD
SB-03-3			1230			2							] COMPOSITE FOR ANALYSIS
SB-03-5			1245			2							] COMPOSITE FOR ANALYSIS
SB-05-3			1355			2							] COMPOSITE FOR ANALYSIS
SB-05-5			1405			2							] COMPOSITE FOR ANALYSIS

Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Un



Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments: Send results to Klob@haleyaldrich.com  
H&A Equis 4-file EDD required, Report Dry weight, Report to the RL

570-178099 Chain of Custody

2.6/2.6 5012

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd. _____ Corr'd. _____		Therm ID No. _____	
Relinquished by: <i>A. Caveney</i>	Company: H&A	Date/Time: 3/22/24 1500	Received by: <i>[Signature]</i>	Company: H&A	Date/Time: 3/22/24 1500		
Relinquished by: <i>[Signature]</i>	Company: ETS	Date/Time: 3/22/24 16:30	Received by: <i>[Signature]</i>	Company: ETS	Date/Time: 3/27/24 1000		
Relinquished by: _____	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____	Date/Time: _____		

Regulatory Program  DW  NPDES  RCRA  Other

Euofins Environment Testing

Euofins' services under this CoC shall be performed in accordance with the T&Cs within Blanket Service Agreement# 2022-24 by and between Haley & Aldrich Inc its subsidiaries and affiliates and Euofins Northern California, LLC and its named affiliates Euofins Environment Testing Northeast, LLC Euofins Environment Testing North Central LLC and Euofins Environment Testing Southwest LLC

<b>Client Contact</b>		<b>H&amp;A Project Manager: K.Loeb</b>		<b>H&amp;A Site Contact: A.Caveney</b>		<b>Date: 3/22/24</b>		<b>COC No</b>	
Haley & Aldrich K.Loeb		Tel/Fax: T: 925.433.2302		Lab Contact: Virendra Patel		Carrier:		2 of 2 COCs	
Address 6455 Almaden Expressway   Suite 100		<b>Analysis Turnaround Time</b>							
City/State/Zip San Jose, CA 95120		<input type="checkbox"/> CALENDAR DAYS		<input checked="" type="checkbox"/> WORKING DAYS				Sampler: A.Caveney	
Phone (925) 935-9771		TAT if different from Below _____ H&A STD _____							
FAX (925) 979-1456		<input type="checkbox"/> 2 weeks		<input type="checkbox"/> 1 week		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day	
H&A Project Number 0207599-001-001-02		Filtered Sample (Y/N)   Perform MS / MSD (Y / N)   VOCs and TPH-g Method 8260   TPH-diesel and as motor oil using USEPA Method 8015B   CAM17 Metals							
Site. 400-408 Gilman St, Berkeley, CA 94710									
H&A P O # 0207599-001-001-02									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	VOCs and TPH-g Method 8260	TPH-diesel and as motor oil using USEPA Method 8015B	CAM17 Metals	Sample Specific Notes.
SB-06-3	3/22/2024	1330	G	S	2	N	N	X	X	X	COMPOSITE FOR ANALYSIS
SB-06-5	3/22/24	1340	G	S	2	N	N	X	X	X	

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammabl  Skin Irritant  Poison B  Unknown  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:** Send results to kloeb@haleyaldrich.com, acaveney@haleyaldrich.com, H&A Equis 4-file EDD required, Report Dry weight, Report to the RL

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd. _____ Corr'd. _____		Therm ID No. _____	
Relinquished by: <i>Alicia Caveney</i>	Company: H&A	Date/Time: 3/22/24 1500	Received by: <i>[Signature]</i>	Company: ECS	Date/Time: 3/22/24 1500	Received by: <i>[Signature]</i>	Company: ECS
Relinquished by: <i>[Signature]</i>	Company: ECS	Date/Time: 3/22/24 16:30	Received by: <i>[Signature]</i>	Company: ECS	Date/Time: 3/27/24	Received by: <i>[Signature]</i>	Company: ECS
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:	Received by:	Company:

## Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 570-178099-2

**Login Number: 178099**

**List Number: 1**

**Creator: Gonzalez, Juan**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

