
APPENDIX F

PHASE II LIMITED SOIL VAPOR ASSESSMENT



GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

October 17, 2024

Project No. 024-24038

Ms. Rebecca Abuhamra
Quick Quack Car Wash
6020 West Oaks Boulevard, Suite 300
Rocklin, California 95765
Rabuhamra@dontdrivedirty.com

RE: Report of Findings
Phase II Limited Soil Vapor Assessment
Proposed Car Wash Property QQ 44-352
913 California Street
APNs 0292-034-10 and -17 (1.5-acre portion)
Redlands, California 92374

Dear Ms. Abuhamra:

Pursuant to your request, Krazan & Associates, Inc. (Krazan) has prepared this *Report of Findings* summarizing the Phase II Limited Soil Vapor Assessment (LSVA) conducted at the Proposed Car Wash Property located at 913 California Street, Redlands, California (subject site). The work was based on the findings provided in Krazan's August 1, 2024 *Phase I Environmental Site Assessment* (ESA) prepared for Quick Quack Car Wash (client). The work is reportedly being done as part of a property transaction and site development and not at the request of a regulatory agency. Figure 1 is a Vicinity Map and Figure 2 depicts the approximate locations of the soil vapor probes.

BACKGROUND

During this assessment, Krazan identified no evidence of recognized environmental conditions (RECs), controlled RECs (CRECs) or historical RECs (HRECs) in connection with the subject site as defined by ASTM E 1527-21. However, the following potential areas of concern (PAOCs) were identified:

PAOCs

- According to the historical review, the subject site was utilized for agricultural purposes from at least 1930 until the 1980s. While there is a potential that environmentally persistent pesticides/herbicides may have been applied to the crops grown on the subject site prior to the 1970s, no chemical mixing or chemical storage areas were observed during the site reconnaissance and no material evidence of the use of environmentally persistent pesticides/herbicides was obtained during this assessment. Therefore, the potential for elevated concentrations of environmentally persistent pesticides/herbicides to currently exist in the near-surface soils of the subject appears to be low.

It has been Krazan's experience that chemical analysis of shallow soil samples for persistent pesticides/herbicides in current or former agricultural areas does not typically result in concentrations reported above regulatory screening levels; however, it has also been Krazan's recent experience that Federal, State and Local agencies and/or financial lending institutions have

at times required “pesticide screening” of properties with current and/or former agricultural uses. If pesticide screening or further assessment is required by a government agency or financial lending institution, Krazan can assist with those requests.

- A former dry cleaner was located approximately 130 feet east of the subject site at 2094 West Redlands Boulevard, Suite G. According to the Environmental Data Resources, Inc. (EDR) database report, the facility’s equipment used perchloroethylene (PCE) in its operation. The dry cleaner operated from at least 1997 until 2014 and under the names Redlands Pavilion Cleaners, Cleaners For Less, and Rainbow Cleaners. No spills, releases, or violations are listed for this facility; however, based on the length of operation (approximately 17 years) and the close proximity, the former dry cleaner represents a potential area of concern in connection with the subject site.
- A former gasoline service station was located approximately 140 feet to the north of the subject site and was the focus of an investigation for a release of gasoline to groundwater. The site was remediated via a soil vapor extraction (SVE) treatment system and the San Bernardino County Fire Department – Hazardous Materials Division (SBCFD) issued case closure with no further action required on October 1, 2008. However, based on the close proximity to the subject site, there is potential that hydrocarbon vapors migrated onto the subject site from this former release. Therefore, this LUST site represents a potential environmental concern to the subject site.

Based on the proximity of the former LUST site and dry cleaners, Krazan recommended a Phase II Limited Site Assessment be conducted on the subject site to investigate the potential for volatile organic compounds (VOCs) in soil vapor from the former LUST site and the former dry cleaner operations to have impacted the subject site.

PURPOSE

The purpose of the Phase II LSVA was to assess the presence or absence of VOCs in shallow soil vapor at the subject site due to the close proximity of the dry-cleaning facility.

The PAOC regarding the former use of pesticides on the subject site is not address in this report.

SCOPE OF WORK

General Activities

The client and property owner were contacted regarding access to the property and scheduling of fieldwork. Soil boring locations were marked at the subject site and USA South was contacted a minimum of 48-hours before site work began. Krazan prepared a site-specific health and safety plan (HASP). Site safety protocols as identified in the HASP were followed by Krazan staff and subcontractors in the field. Krazan followed its standard operating procedures (SOPs) and industry standard methods and protocols for sample collection, chain of custody documentation and sampling equipment decontamination.

Soil Vapor Assessment Field Activities

On October 2, 2024, four (4) soil borings (SV1, SV2, SV3, and SV4) were drilled on the subject site by Strongarm Field Services and Environmental Testing of Fullerton, California. The soil vapor probes extended to 15.5 feet below ground surface (bgs) for the installation of dual-nested soil vapor probes at five (5) and 15 feet bgs. Soil vapor boring SV1 was placed near the location of the northern edge of the subject site closest to the former gasoline station, SV2 was placed along the eastern boundary of the subject site

nearest to the adjacent off-site former dry-cleaner, and borings SV3 and SV4 were placed in the areas of the wash tunnel and car wash kiosk, respectively.

Soil vapor probes were installed and sampled using field procedures presented in the Advisory – Active Soil Gas Investigations published in July 2015 by the DTSC and the Los Angeles and San Francisco Regional Water Quality Control Boards.

Soil vapor probes were constructed with 1/4-inch outside diameter Teflon® tubing connected to a porous vapor probe tip and end cap. The probe tip was placed in the middle of a one-foot-thick sand pack. Approximately one (1) foot of granular dry bentonite was placed on top of the sand pack and the remainder of the soil boring was backfilled with hydrated bentonite. The soil vapor borings/probes were allowed to equilibrate for a minimum of two (2) hours prior to purging and sampling.

A leak test was conducted prior to purging and sampling of each soil vapor probe. Using a Magnehelic® gauge, the sample-train was held under a vacuum of at least 100 inches of water for a minimum of one minute without significant loss of vacuum.

Following a successful leak test, an attempt to purge a minimum of three (3) purge volumes of soil vapor using a Sensidyne® Gilian BDXII pump set at approximately 150 milliliters per minute (mL/min) was conducted. Well volumes were calculated using the length and inside diameter of the tubing and the soil boring diameter and the height of the sand pack and dry bentonite (both at approximately one (1)-foot). Default porosity parameters of sand (35%) and dry bentonite (30%) were used. Purging times ranged from approximately 8.11 minutes for the five (5) foot soil vapor probes up to approximately 8.93 minutes for the 14 to 15-foot soil vapor probes.

Following the purging at each soil vapor well, the vapor well was sampled using laboratory supplied equipment. Each soil vapor sample was collected using a manifold set at 150 to 200 mL/min to draw the soil vapor into a one (1)-liter Summa canister. A tracer gas, difluoroethane (1,1-DFA), was used to ensure ambient air did not infiltrate the soil vapor sample. Following the soil vapor sampling, the Teflon tubing was partially filled with granular bentonite and cut down, the surface was then backfilled with native soil and hydrated bentonite.

Eight (8) soil vapor samples were submitted to SunStar Laboratory, Inc., a State-approved laboratory for VOCs by EPA Method TO-15.

Reporting

Following completion of the field and laboratory investigation activities, Krazan prepared this *Report of Findings*.

APPLICABLE REGULATORY AGENCY REFERENCES

Krazan's evaluation of the results and findings associated with the soil vapor sampling includes referencing the Revision 2 of the 2019 San Francisco Regional Water Quality Control Board's (SFRWQCB) environmental screening levels (ESLs) referenced in the technical document titled, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. According to the SFRWQCB's document, ESLs are conservative. Under most circumstances and within limits described by the SFRWQCB, the presence of a chemical in soil vapor at concentrations below the corresponding Commercial/Industrial Exposure ESL for the respective constituent can be assumed not to pose a significant, long-term (chronic) threat to human health and the environment.

FINDINGS

Soil types encountered appeared to be engineered fill consisting of silt, silty sand and sands. Formational geologic units were most likely encountered at various depths resulting in drilling refusal.

As shown on Table 1, 14 of the 53 VOCs analyzed (not including the tracer gas 1,1-DFA) were detected at or above the laboratory reporting limits (RLs). Of the 14 VOCs detected above the RLs, only PCE, in sample SV2, (86 µg/m³ @ 5' & 200 µg/m³ @ 15') was detected above its corresponding Commercial ESL (67 µg/m³). SV2 is located in a 30-foot-wide setback zone behind the car wash tunnel along the eastern property boundary of the subject site. In addition, soil vapor probe SV2 is located nearest to the former dry cleaner facility, formerly present on the east side of California Street. No other VOCs detected at or above the laboratory's RLs were reported above their corresponding Commercial ESLs, where established.

The tracer gas, 1,1-DFA was not detected at or above the laboratory's RL of 27 µg/m³. Refer to Appendix A – Laboratory Analytical Report for details.

CONCLUSIONS

Only PCE was detected in soil vapor above its corresponding Commercial ESL. PCE was detected above the Commercial ESL in soil gas sampling location SV2 at both the five (5) feet (86 µg/m³) and 15 feet bgs (200 µg/m³) sampling depths. As previously discussed, SV2 is located along the eastern boundary of the subject site. The subject site design plans designate the eastern boundary as an open landscape space. SV3 and SV4, located nearest to the subject site proposed indoor area and approximately 70 feet west of SV2, had traces of PCE concentration, with the highest record PCE concentration of 13 µg/m³ at SV4, which is below their respected Commercial ESL. The results indicate a nonhomogeneous PCE soil vapor concentration on the subject site, with a significant reduction from the eastern boundary to the central portion of the subject site. SV2 serves as a "hot spot" for PCE soil vapor and does not accurately reflect the subsoil conditions of the subject site. The USEPA's "OSWER Technical Guide For Assessing and Mitigating the Vapor Intrusion Pathway From Subsurface Vapor Sources to Indoor Air" states that the planned structure location at the subject site serves as a vapor intrusion mitigation measure against the SV2 PCE soil vapor concentration. Therefore, PCE in sampling location SV2 at concentrations exceeding its corresponding Commercial ESL is not deemed to pose a significant health risk to future onsite workers. SV3 and SV4 are considered a better representation of the subject site's subsoil condition, indicating the proposed indoor area PCE soil vapor concentration is below their respected Commercial ESL. Therefore, the PCE concentrations near the proposed structure are not deemed to pose a significant health risk to future onsite workers.

LIMITATIONS

This soil vapor investigation of the subject site has been limited in scope. These types of assessments are undertaken with the calculated risk that the presence, full nature, and extent of contamination would not be revealed by the methods employed. Therefore, no warranty is given, either expressed or implied, that hazardous material contamination, which would not have been disclosed through this investigation, does not exist at the subject site. Therefore, the data obtained are clear and accurate only to the degree implied by the sources and methods used. Matters related to reporting to regulators of subsurface conditions revealed by this soil vapor investigation are the responsibility of the property owner, and, if guidance is desired, legal counsel should be consulted.

The findings presented herewith are based on professional interpretation using state-of-the art methods and equipment and a degree of conservatism deemed proper as of this report date. We do not warrant that such data cannot be superseded by future geotechnical, environmental, or technical developments. This assessment and report were authorized by and prepared for the exclusive use of our client. Unauthorized use of or reliance on the information contained in this report without the expressed written consent of Krazan & Associates, Inc. is strictly prohibited.

CLOSING

We appreciate the opportunity to be of service. If you have any questions regarding this report or if we can be of further assistance, please feel free to contact the undersigned at 559-348-2200.



Respectfully Submitted,
KRAZAN & ASSOCIATES, INC.

A handwritten signature in blue ink that reads "Michael H. B.".

Michael H. Bowery, PG 5027
Senior Project Manager



A handwritten signature in blue ink that reads "Rem Alexander" in a stylized script.

Remington R. Alexander, PE 93713
Environmental Regional Manager

MHB/RRA/mlt

Attachments:

Table 1	October 2, 2024, Soil Vapor Sampling Results – VOCs
Figure 1	Vicinity Map
Figure 2	Soil Vapor Sample Location Map
Appendix A	Laboratory Analytical Report

Table 1
Proposed Car Wash (QQ 44-352)
913 California Street, Redlands, California 92374
October 14, 2024 - Soil Vapor Sample Results - VOCs
Concentrations are expressed in micrograms per cubic meter (µg/m³)

Analytes	Sample ID								Commercial ESLs
	SV1-5	SV1-15	SV2-5	SV2-15	SV3-5	SV3-15	SV4-5	SV4-15	
Acetone	160	60	340	230	95	56	66	50	4.5E+06 n/c
1,3-Butadiene	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	--
Carbon Disulfide	<3.2	<3.2	8.5	4.8	<3.2	<3.2	5.3	<3.2	--
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	<7.7	--
Isopropyl alcohol	14	<13	18	16	<13	<13	<13	<13	--
Bromodichloromethane	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	<6.8	11 c
Bromoform	<11	<11	<11	<11	<11	<11	<11	<11	370 c
Bromomethane	<20	<20	<20	<20	<20	<20	<20	<20	730 n/c
Carbon tetrachloride	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	68 c
Chlorobenzene	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	7300 n/c
Chloroethane	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	1.5E+06 n/c
Chloroform	<5.0	<5.0	13	<5.0	<5.0	<5.0	<5.0	<5.0	18 c
Chloromethane	<11	<11	<11	<11	<11	<11	<11	<11	1.3E+04 n/c
Cyclohexane	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	--
Heptane	8.3	<4.2	10	<4.2	<4.2	<4.2	<4.2	<4.2	--
Hexane	<3.6	<3.6	8.5	<3.6	<3.6	<3.6	<3.6	<3.6	--
Dibromochloromethane	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	--
1,2-Dibromoethane (EDB)	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	0.68 c
1,2-Dichlorobenzene	<31	<31	<31	<31	<31	<31	<31	<31	2.9E+04 n/c
1,3-Dichlorobenzene	<31	<31	<31	<31	<31	<31	<31	<31	--
1,4-Dichlorobenzene	<31	<31	<31	<31	<31	<31	<31	<31	37 c
Dichlorodifluoromethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,1-Dichloroethane	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	260 c
1,2-Dichloroethane (EDC)	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	16 c
1,1-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1.0E+04 n/c
cis-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1200 n/c
trans-1,2-Dichloroethene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	12000 n/c
1,2-Dichloropropane	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	41 c
cis-1,3-Dichloropropene	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	--
trans-1,3-Dichloropropene	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	<4.6	--
4-Ethyltoluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Methylene chloride	<27	<27	<27	<27	<27	<27	<27	<27	410 c
Styrene	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	1.3E+05 n/c
1,1,2,2-Tetrachloroethane	<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	<7.0	7.0 c
Tetrahydrofuran	9.6	<3.0	14	9.6	15	<3.0	15	<3.0	--
Tetrachloroethene	<6.9	<6.9	86	200	<6.9	11	13	13	67 c
1,1,2-Trichloroethane	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	26 c
1,1,1-Trichloroethane	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	<5.6	1.5E+05 n/c
Trichloroethene	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	100 c
Trichlorofluoromethane	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	--
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
1,2,4-Trimethylbenzene	<5.0	<5.0	5.9	8.0	<5.0	<5.0	<5.0	<5.0	--
Vinyl acetate	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	--
Vinyl chloride	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	5.2 c
1,4-Dioxane	<18	<18	<18	<18	<18	<18	<18	<18	53 c
2-Butanone (MEK)	28	<15	71	51	18	<15	18	<15	--
Methyl isobutyl ketone	<42	<42	<42	<42	<42	<42	<42	<42	4.4E+05 n/c
Benzene	<3.3	<3.3	9.3	3.8	4.1	<3.3	6.1	<3.3	14 c
Toluene	14	5.4	45	22	24	5.5	36	8.5	4.4E+04 n/c
Ethylbenzene	<4.4	<4.4	6.5	<4.4	<4.4	<4.4	5.4	<4.4	160 c
m,p-Xylene	12	<8.8	21	<8.8	<8.8	<8.8	17	<8.8	1.5E+04 n/c
o-Xylene	<4.4	<4.4	7.3	<4.4	<4.4	<4.4	7.5	<4.4	1.5E+04 n/c
1,1-Difluoroethane (1,1-DFA)	<27	<27	<27	<27	<27	<27	<27	<27	--
Carbon Dioxide	<1.86	-	-	-	<1.92	-	-	-	--
Oxygen	21.2	-	-	-	21.2	-	-	-	--
Nitrogen	75.0	-	-	-	72.5	-	-	-	--

VOCs = Volatile Organic Compounds by EPA Method TO-15

ESL = San Francisco Bay Regional Water Quality Control Board, Commercial Environmental Screening Levels, January 2019 Rev. 2

Bolded = Concentrations reported higher than the laboratory reporting limit (RL).

Underlined = Concentrations reported higher than Commercial ESLs.

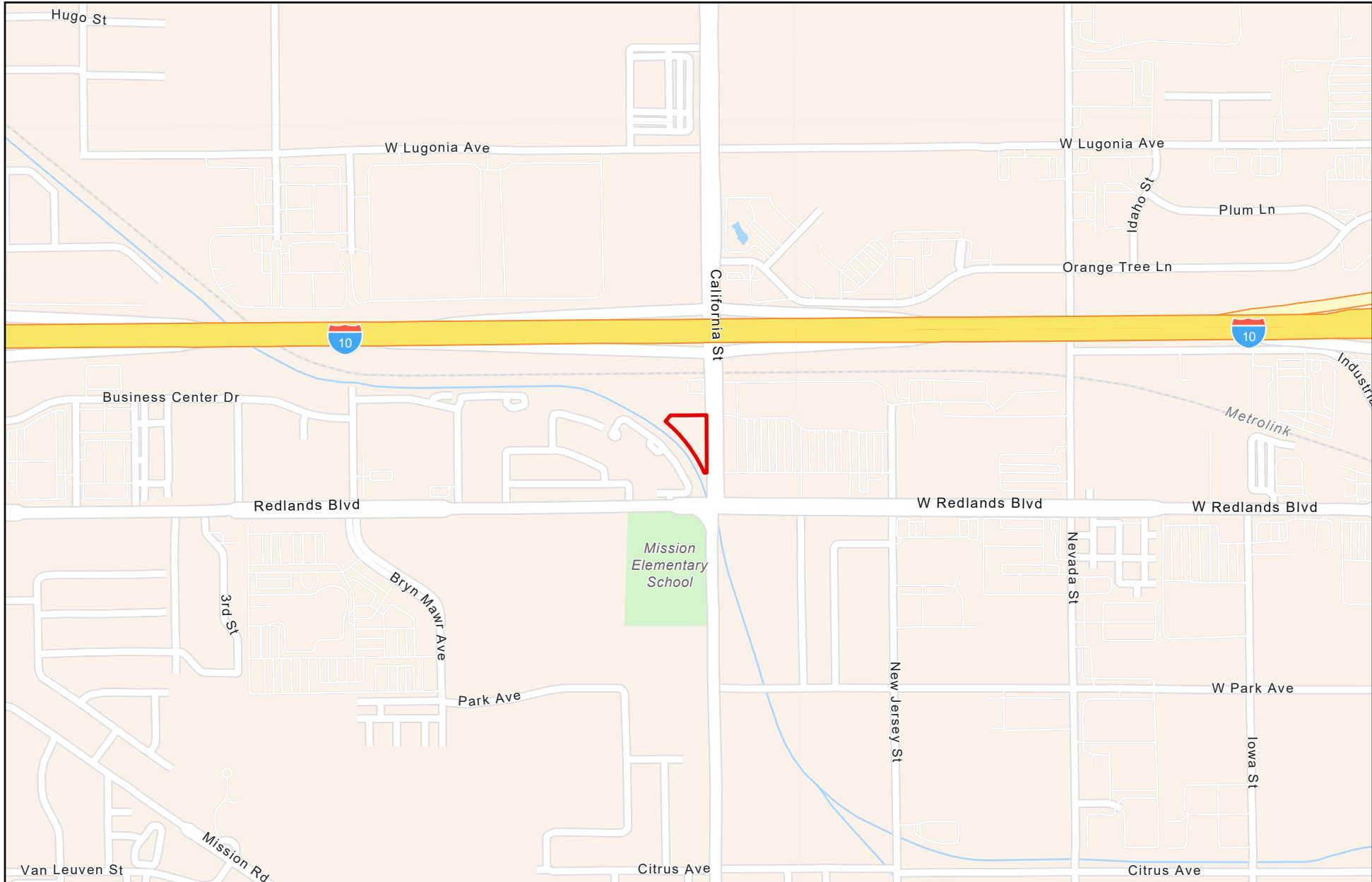
Italicized = Not-detected; the RL is displayed.


n/c = Non-carcinous

c = Carcinous

-- = Not established

- = Not tested



 Subject Site Boundary



0 500 1,000 2,000
 US Feet

Vicinity Map

Proposed Car Wash Property (QQ 44-352)

913 California Street
APNs 0292-034-10
and -17 (1.5-acre portion)
Redlands, California 92374

Scale:
1"=1,000'

Drawn By:
TW

Project No:
024-24038

Date:
October 2024

Approved By:
MB




Figure No:
1



SITE DEVELOPMENT ENGINEERS

With Offices Serving the Western United States



-  Subject Site Boundary
-  Soil Vapor Sample
-  Proposed Car Wash Tunnel (Approximate)



0 50 100 200
US Feet

**Soil Vapor Sample
Location Map**

**Proposed Car Wash Property
(QQ 44-352)**

913 California Street
APNs 0292-034-10
and -17 (1.5-acre portion)
Redlands, California 92374

Scale:
1"=100'

Drawn By:
TW

Project No:
024-24038

Date:
October 2024

Approved By:
MB

Figure No:
2



SITE DEVELOPMENT ENGINEERS

With Offices Serving the Western United States

Appendix A



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

14 October 2024

Mike Bowery
Krazan, Clovis
215 West Dakota Avenue
Clovis, CA 93612
RE: Redlands QQ 44-352

Enclosed are the results of analyses for samples received by the laboratory on 10/03/24 14:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Lee
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV1-5	T243969-01	Air	10/02/24 12:28	10/03/24 14:47
SV1-15	T243969-02	Air	10/02/24 12:00	10/03/24 14:47
SV2-5	T243969-03	Air	10/02/24 01:26	10/03/24 14:47
SV2-15	T243969-04	Air	10/02/24 12:59	10/03/24 14:47
SV3-5	T243969-05	Air	10/02/24 02:25	10/03/24 14:47
SV3-15	T243969-06	Air	10/02/24 01:57	10/03/24 14:47
SV4-5	T243969-07	Air	10/02/24 03:24	10/03/24 14:47
SV4-15	T243969-08	Air	10/02/24 02:55	10/03/24 14:47

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

DETECTIONS SUMMARY

Sample ID: SV1-5

Laboratory ID: T243969-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	160	12	ug/m ³ Air	TO-15	
Isopropyl alcohol	14	13	ug/m ³ Air	TO-15	
Heptane	8.3	4.2	ug/m ³ Air	TO-15	
Tetrahydrofuran	9.6	3.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	28	15	ug/m ³ Air	TO-15	
Toluene	14	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	12	8.8	ug/m ³ Air	TO-15	
Oxygen	21.2	1.86	%	GC	FG-03
Nitrogen	75.0	30.0	%	GC	

Sample ID: SV1-15

Laboratory ID: T243969-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	60	12	ug/m ³ Air	TO-15	
Toluene	5.4	3.8	ug/m ³ Air	TO-15	

Sample ID: SV2-5

Laboratory ID: T243969-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	340	12	ug/m ³ Air	TO-15	
Carbon Disulfide	8.5	3.2	ug/m ³ Air	TO-15	
Isopropyl alcohol	18	13	ug/m ³ Air	TO-15	
Chloroform	13	5.0	ug/m ³ Air	TO-15	
Heptane	10	4.2	ug/m ³ Air	TO-15	
Hexane	8.5	3.6	ug/m ³ Air	TO-15	
Tetrahydrofuran	14	3.0	ug/m ³ Air	TO-15	
Tetrachloroethene	86	6.9	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	5.9	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	71	15	ug/m ³ Air	TO-15	
Benzene	9.3	3.3	ug/m ³ Air	TO-15	
Toluene	45	3.8	ug/m ³ Air	TO-15	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

Sample ID: SV2-5

Laboratory ID: T243969-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Ethylbenzene	6.5	4.4	ug/m ³ Air	TO-15	
m,p-Xylene	21	8.8	ug/m ³ Air	TO-15	
o-Xylene	7.3	4.4	ug/m ³ Air	TO-15	

Sample ID: SV2-15

Laboratory ID: T243969-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	230	12	ug/m ³ Air	TO-15	
Carbon Disulfide	4.8	3.2	ug/m ³ Air	TO-15	
Isopropyl alcohol	16	13	ug/m ³ Air	TO-15	
Tetrahydrofuran	9.6	3.0	ug/m ³ Air	TO-15	
Tetrachloroethene	200	6.9	ug/m ³ Air	TO-15	
1,2,4-Trimethylbenzene	8.0	5.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	51	15	ug/m ³ Air	TO-15	
Benzene	3.8	3.3	ug/m ³ Air	TO-15	
Toluene	22	3.8	ug/m ³ Air	TO-15	

Sample ID: SV3-5

Laboratory ID: T243969-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	95	12	ug/m ³ Air	TO-15	
Tetrahydrofuran	15	3.0	ug/m ³ Air	TO-15	
2-Butanone (MEK)	18	15	ug/m ³ Air	TO-15	
Benzene	4.1	3.3	ug/m ³ Air	TO-15	
Toluene	24	3.8	ug/m ³ Air	TO-15	
Oxygen	21.2	1.92	%	GC	FG-03
Nitrogen	72.5	30.0	%	GC	

Sample ID: SV3-15

Laboratory ID: T243969-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Acetone	56	12	ug/m ³ Air	TO-15	
Tetrachloroethene	11	6.9	ug/m ³ Air	TO-15	
Toluene	5.5	3.8	ug/m ³ Air	TO-15	

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

Sample ID: SV4-5

Laboratory ID: T243969-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Acetone	66	12		ug/m ³ Air	TO-15	
Carbon Disulfide	5.3	3.2		ug/m ³ Air	TO-15	
Tetrahydrofuran	15	3.0		ug/m ³ Air	TO-15	
Tetrachloroethene	13	6.9		ug/m ³ Air	TO-15	
2-Butanone (MEK)	18	15		ug/m ³ Air	TO-15	
Benzene	6.1	3.3		ug/m ³ Air	TO-15	
Toluene	36	3.8		ug/m ³ Air	TO-15	
Ethylbenzene	5.4	4.4		ug/m ³ Air	TO-15	
m,p-Xylene	17	8.8		ug/m ³ Air	TO-15	
o-Xylene	7.5	4.4		ug/m ³ Air	TO-15	

Sample ID: SV4-15

Laboratory ID: T243969-08

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Acetone	50	12		ug/m ³ Air	TO-15	
Tetrachloroethene	13	6.9		ug/m ³ Air	TO-15	
Toluene	8.5	3.8		ug/m ³ Air	TO-15	

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV1-5
T243969-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	160	12	ug/m ³ Air	1.86	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	14	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	8.3	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV1-5
T243969-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.86	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	9.6	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	28	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	14	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	12	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	59.2-130		"	"	"	"	

Fixed Gases ASTM D1946-90

Carbon Dioxide	ND	1.86	%	1.86	24J0177	10/10/24	10/10/24	GC	
Oxygen	21.2	1.86	"	"	"	"	"	"	FG-03
Nitrogen	75.0	30.0	"	1	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV1-15
T243969-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	60	12	ug/m ³ Air	1.84	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	ND	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV1-15
T243969-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.84	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	5.4	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

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Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV2-5
T243969-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	340	12	ug/m ³ Air	1.81	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	8.5	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	18	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	13	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	10	4.2	"	"	"	"	"	"
Hexane	8.5	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"
Methylene chloride	ND	27	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV2-5
T243969-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Styrene	ND	4.3	ug/m ³ Air	1.81	24J0086	10/07/24	10/07/24	TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	14	3.0	"	"	"	"	"	"	
Tetrachloroethene	86	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	5.9	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	71	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	9.3	3.3	"	"	"	"	"	"	
Toluene	45	3.8	"	"	"	"	"	"	
Ethylbenzene	6.5	4.4	"	"	"	"	"	"	
m,p-Xylene	21	8.8	"	"	"	"	"	"	
o-Xylene	7.3	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV2-15
T243969-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	230	12	ug/m ³ Air	1.84	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	4.8	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	16	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	ND	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV2-15
T243969-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.84	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	9.6	3.0	"	"	"	"	"	"	
Tetrachloroethene	200	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	8.0	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	51	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	3.8	3.3	"	"	"	"	"	"	
Toluene	22	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV3-5

T243969-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	95	12	ug/m ³ Air	1.92	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	ND	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV3-5
T243969-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.92	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	15	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	18	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	4.1	3.3	"	"	"	"	"	"	
Toluene	24	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %	59.2-130		"	"	"	"	

Fixed Gases ASTM D1946-90

Carbon Dioxide	ND	1.92	%	1.92	24J0177	10/10/24	10/10/24	GC	
Oxygen	21.2	1.92	"	"	"	"	"	"	FG-03
Nitrogen	72.5	30.0	"	1	"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV3-15

T243969-06 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	56	12	ug/m ³ Air	1.98	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	ND	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV3-15
T243969-06 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.98	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	11	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	5.5	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV4-5

T243969-07 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	66	12	ug/m ³ Air	1.94	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	5.3	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	ND	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV4-5
T243969-07 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.94	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	15	3.0	"	"	"	"	"	"	
Tetrachloroethene	13	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	18	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	6.1	3.3	"	"	"	"	"	"	
Toluene	36	3.8	"	"	"	"	"	"	
Ethylbenzene	5.4	4.4	"	"	"	"	"	"	
m,p-Xylene	17	8.8	"	"	"	"	"	"	
o-Xylene	7.5	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.



Jeff Lee, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV4-15

T243969-08 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	50	12	ug/m ³ Air	1.89	24J0086	10/07/24	10/07/24	TO-15
1,3-Butadiene	ND	4.5	"	"	"	"	"	"
Carbon Disulfide	ND	3.2	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"
Isopropyl alcohol	ND	13	"	"	"	"	"	"
Bromodichloromethane	ND	6.8	"	"	"	"	"	"
Bromoform	ND	11	"	"	"	"	"	"
Bromomethane	ND	20	"	"	"	"	"	"
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"
Chlorobenzene	ND	4.7	"	"	"	"	"	"
Chloroethane	ND	2.7	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	11	"	"	"	"	"	"
Cyclohexane	ND	3.5	"	"	"	"	"	"
Heptane	ND	4.2	"	"	"	"	"	"
Hexane	ND	3.6	"	"	"	"	"	"
Dibromochloromethane	ND	8.7	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	31	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	31	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

SV4-15
T243969-08 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	27	ug/m ³ Air	1.89	24J0086	10/07/24	10/07/24	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	13	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	8.5	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
1,1-Difluoroethane (1,1-DFA)	ND	27	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	59.2-130		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24J0086 - Canister Analysis

Blank (24J0086-BLK1)

Prepared & Analyzed: 10/07/24

Acetone	ND	12	ug/m ³ Air
1,3-Butadiene	ND	4.5	"
Carbon Disulfide	ND	3.2	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"
Isopropyl alcohol	ND	13	"
Bromodichloromethane	ND	6.8	"
Bromoform	ND	11	"
Bromomethane	ND	20	"
Carbon tetrachloride	ND	6.4	"
Chlorobenzene	ND	4.7	"
Chloroethane	ND	2.7	"
Chloroform	ND	5.0	"
Chloromethane	ND	11	"
Cyclohexane	ND	3.5	"
Heptane	ND	4.2	"
Hexane	ND	3.6	"
Dibromochloromethane	ND	8.7	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,2-Dichlorobenzene	ND	31	"
1,3-Dichlorobenzene	ND	31	"
1,4-Dichlorobenzene	ND	31	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	4.1	"
1,2-Dichloroethane	ND	4.1	"
1,1-Dichloroethene	ND	4.0	"
cis-1,2-Dichloroethene	ND	4.0	"
trans-1,2-Dichloroethene	ND	4.0	"
1,2-Dichloropropane	ND	4.7	"
cis-1,3-Dichloropropene	ND	4.6	"
trans-1,3-Dichloropropene	ND	4.6	"
4-Ethyltoluene	ND	5.0	"
Methylene chloride	ND	27	"
Styrene	ND	4.3	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
Tetrahydrofuran	ND	3.0	"

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24J0086 - Canister Analysis

Blank (24J0086-BLK1)

Prepared & Analyzed: 10/07/24

Tetrachloroethene	ND	6.9	ug/m ³ Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
1,1-Difluoroethane (1,1-DFA)	ND	27	"							
Surrogate: 4-Bromofluorobenzene	332		"	362		91.6	59.2-130			

Duplicate (24J0086-DUP1)

Source: T243925-01

Prepared & Analyzed: 10/07/24

Acetone	3390	12	ug/m ³ Air	3410		0.586	30	E
1,3-Butadiene	4.55	4.5	"	4.44		2.60	30	
Carbon Disulfide	ND	3.2	"	ND			30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	ND			30	
Isopropyl alcohol	330	13	"	344		4.19	30	
Bromodichloromethane	ND	6.8	"	ND			30	
Bromoform	ND	11	"	ND			30	
Bromomethane	ND	20	"	ND			30	
Carbon tetrachloride	ND	6.4	"	ND			30	
Chlorobenzene	ND	4.7	"	ND			30	
Chloroethane	ND	2.7	"	ND			30	
Chloroform	ND	5.0	"	ND			30	
Chloromethane	ND	11	"	ND			30	
Cyclohexane	ND	3.5	"	ND			30	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24J0086 - Canister Analysis

Duplicate (24J0086-DUP1)	Source: T243925-01			Prepared & Analyzed: 10/07/24					
Heptane	19.0	4.2	ug/m ³ Air		20.0			5.17	30
Hexane	ND	3.6	"		ND				30
Dibromochloromethane	ND	8.7	"		ND				30
1,2-Dibromoethane (EDB)	ND	7.8	"		ND				30
1,2-Dichlorobenzene	ND	31	"		ND				30
1,3-Dichlorobenzene	ND	31	"		ND				30
1,4-Dichlorobenzene	ND	31	"		ND				30
Dichlorodifluoromethane	ND	5.0	"		ND				30
1,1-Dichloroethane	ND	4.1	"		ND				30
1,2-Dichloroethane	ND	4.1	"		ND				30
1,1-Dichloroethene	ND	4.0	"		ND				30
cis-1,2-Dichloroethene	ND	4.0	"		ND				30
trans-1,2-Dichloroethene	ND	4.0	"		ND				30
1,2-Dichloropropane	ND	4.7	"		ND				30
cis-1,3-Dichloropropene	ND	4.6	"		ND				30
trans-1,3-Dichloropropene	ND	4.6	"		ND				30
4-Ethyltoluene	ND	5.0	"		ND				30
Methylene chloride	ND	27	"		ND				30
Styrene	ND	4.3	"		ND				30
1,1,2,2-Tetrachloroethane	ND	7.0	"		ND				30
Tetrahydrofuran	ND	3.0	"		ND				30
Tetrachloroethene	ND	6.9	"		ND				30
1,1,2-Trichloroethane	ND	5.6	"		ND				30
1,1,1-Trichloroethane	ND	5.6	"		ND				30
Trichloroethene	ND	5.5	"		ND				30
Trichlorofluoromethane	ND	5.7	"		ND				30
1,3,5-Trimethylbenzene	ND	5.0	"		ND				30
1,2,4-Trimethylbenzene	ND	5.0	"		ND				30
Vinyl acetate	ND	3.6	"		ND				30
Vinyl chloride	ND	2.6	"		ND				30
1,4-Dioxane	ND	18	"		ND				30
2-Butanone (MEK)	72.9	15	"		72.9			0.00	30
Methyl isobutyl ketone	276	42	"		281			1.76	30
Benzene	ND	3.3	"		ND				30
Toluene	6.30	3.8	"		6.17			2.13	30
Ethylbenzene	ND	4.4	"		ND				30

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24J0086 - Canister Analysis

Duplicate (24J0086-DUP1)

Source: T243925-01

Prepared & Analyzed: 10/07/24

m,p-Xylene	ND	8.8	ug/m ³ Air		ND				30	
o-Xylene	ND	4.4	"		ND				30	
1,1-Difluoroethane (1,1-DFA)	ND	27	"		ND				30	
Surrogate: 4-Bromofluorobenzene	339		"	362		93.5	59.2-130			

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

Fixed Gases ASTM D1946-90 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 24J0177 - EPA 5030 GC

Blank (24J0177-BLK1)

Prepared & Analyzed: 10/10/24

Carbon Dioxide	ND	1.00	%
Oxygen	ND	1.00	"
Nitrogen	ND	30.0	"

LCS (24J0177-BS1)

Prepared & Analyzed: 10/10/24

Carbon Dioxide	4.22	1.00	%	5.00	84.4	75-125
Oxygen	14.9	1.00	"	15.0	99.1	75-125
Nitrogen	79.7	30.0	"	80.0	99.6	75-125

Duplicate (24J0177-DUP1)

Source: T243969-01

Prepared & Analyzed: 10/10/24

Carbon Dioxide	ND	1.86	%	ND		20	
Oxygen	21.7	1.86	"	21.2	2.36	20	FG-03
Nitrogen	73.1	30.0	"	75.0	2.59	20	

SunStar Laboratories, Inc.

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Jeff Lee, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Krazan, Clovis
215 West Dakota Avenue
Clovis CA, 93612

Project: Redlands QQ 44-352
Project Number: 024-24038
Project Manager: Mike Bowery

Reported:
10/14/24 16:23

Notes and Definitions

FG-03 O2 biased high from excess dilution due to low canister pressure.

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimated concentration.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Lee, Project Manager

Chain of Custody Record



25712 Commercentre Dr. Lake Forest, CA 92630
949-297-5020

Client: Kraz-an

Address: 215 W. Dakota Ave., Clovis, CA, 93612

Phone: ~~559~~. 348.2200

Fax:

Project Manager: Mike Bower

Date: 10/2/2024

Page: 1 Of

Project Name: Pedlands QA 44-352

Collector: Trent Westerson

Client Project #: 024-24038

Batch #: 1243969

EDF #:

[illegible]

* TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T243969
Client Name: Krazan Project: Redlands QQ 44-352

Delivered by: ☐ Client ☐ SunStar Courier ☐ GLS ☐ FedEx ☐ Other

If Courier, Received by: Paul Date/Time Courier Received: 10.3.24 1325
Lab Received by: Angel Date/Time Lab Received: 10.3.24 1447

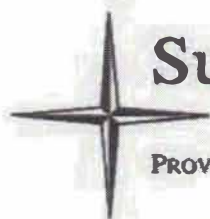
Total number of coolers received: N/A Thermometer ID: SC-1 Calibration due: 11/17/2024

Temperature: Cooler #1	°C +/- the CF (+ 0.1°C) =	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (+ 0.1°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (+ 0.1°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☐ Yes ☐ No* ☒ N/A
Sample containers intact ☒ Yes ☐ No*
Sample labels match Chain of Custody IDs ☒ Yes ☐ No*
Total number of containers received match COC ☒ Yes ☐ No*
Proper containers received for analyses requested on COC ☒ Yes ☐ No*
Proper preservative indicated on COC/containers for analyses requested ☐ Yes ☐ No* ☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: AB 10.3.24

Comments:



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Project Name: 024-24038 REDLANDS				Irma	
Company: KRAZAN					
Name: TRENTON WESTERSON					
Item	Quantity	Unit			
2 oz Jars 24/CS					
4 oz Jars 24/CS					
8 oz Jars 12/CS					
40 ml unpreserved VOAs 100/box					
40 ml HCL-preserved VOAs 72/box					
250 ml Poly 24/CS					
500 ml Poly 16/CS					
1 Liter Poly 12/CS					
500 ml Amber Bottle Wide 12/CS					
1 Liter Amber Bottle 12/CS					
1 Gallon Poly 4/box					
5035 kits:(2)Sodium Bisulfate VOAs 72/box					
(1) Methanol VOA 72/box					
(1) TERRACORE					
Lock-N-Load Handle 1/ea					
Tedlar Bags 10/pack					
Sub Slab Insert w/ washer & N/F					
Soil Gas SS 16" Drop Tubes					
Gas Extraction Fittings					
Soil Gas Filters					
	Volume of Summa	# Sent	Used	Unused	Unreturned
Batch Certified Summa Canisters	400cc				
	1L	8+1	CHARGE 8	1	0
	3L				
	6L				
Purge cans					
Nitrogen cans		3	NO CHARGE	0	0
Ind. Cerified Summa Cannisters	1L				
	3L				
	6L				
63/153 Manifolds, Var. Sampler, etc. Calibrated Correctly - Gauge Reads at 0					
Manifolds: Inst. Sampler, Variable Sampler, Shut In Set Ups, 150ml/mn, 63ml/mn	2 SV	CHARGE 1		0	0
Swagelok Fittings: Nuts/Ferrules, Ts	8 N/F	RETURNED			
Cooler (Sm, Med, Lrg) Number & Quantity					
Other: Poly Tube, Valves, Silicon Tape, etc.					
Prepared By:	PB	Date:	9/11/24		
Reviewed By:		Date:			
Comments:					
Cooler Policy: Failure to return cooler(s) within 30 days of receipt or if the returned cooler(s) are in unusable condition, will result in a \$50 per cooler fee for replacement costs.					

Check In Report



Barcode	Description	Due Date	In Date	Condition	From Emp/Loc	To Storage Location	Bin Qty	Status
4343	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4340	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4339	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4342	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4344	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4336	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4304	1.4 Liter Can	10/5/2024	10/3/2024 04:21 PM		General Office - Krazan	SunStar Labs South		
4049	400 cc	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		
4064	400 cc	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		
8712	150 cc	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		
8693	150 cc	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		
4258	1.4 L	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		
4335	1.4 Liter Can	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		
4341	1.4 Liter Can	10/5/2024	10/3/2024 04:23 PM		General Office - Krazan	SunStar Labs South		

WORK ORDER

T243969

Client: Krazan, Clovis
Project: Trent Westerson

Project Manager: Jeff Lee
Project Number: 024-24038

Report To:

Krazan, Clovis
Mike Bowery
215 West Dakota Avenue
Clovis, CA 93612

Date Due: 10/14/24 00:00 (7 day TAT)

Received By: Angel Aguirre

Date Received: 10/03/24 14:47

Logged In By: Angel Aguirre

Date Logged In: 10/04/24 09:18

Samples Received at:

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	No		

Analysis	Due	TAT	Expires	Comments
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T243969-01 SV1-5 [Air] Sampled 10/02/24 12:28 (GMT-08:00) Pacific Time (US &

Fixed Gases	10/14/24 00:00	7	10/30/24 12:28	
TO-15	10/14/24 00:00	7	11/01/24 12:28	+ 1,1 DFA

T243969-02 SV1-15 [Air] Sampled 10/02/24 12:00 (GMT-08:00) Pacific Time (US &

TO-15	10/14/24 00:00	7	11/01/24 12:00	+ 1,1 DFA
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T243969-03 SV2-5 [Air] Sampled 10/02/24 01:26 (GMT-08:00) Pacific Time (US &

TO-15	10/14/24 00:00	7	11/01/24 01:26	+ 1,1 DFA
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T243969-04 SV2-15 [Air] Sampled 10/02/24 12:59 (GMT-08:00) Pacific Time (US &

TO-15	10/14/24 00:00	7	11/01/24 12:59	+ 1,1 DFA
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T243969-05 SV3-5 [Air] Sampled 10/02/24 02:25 (GMT-08:00) Pacific Time (US &

Fixed Gases	10/14/24 00:00	7	10/30/24 02:25	
TO-15	10/14/24 00:00	7	11/01/24 02:25	+ 1,1 DFA

T243969-06 SV3-15 [Air] Sampled 10/02/24 01:57 (GMT-08:00) Pacific Time (US &

TO-15	10/14/24 00:00	7	11/01/24 01:57	+ 1,1 DFA
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WORK ORDER

T243969

Client: Krazan, Clovis

Project: Trent Westerson

Project Manager: Jeff Lee

Project Number: 024-24038

Analysis	Due	TAT	Expires	Comments
T243969-07 SV4-5 [Air] Sampled 10/02/24 03:24 (GMT-08:00) Pacific Time (US &				
TO-15	10/14/24 00:00	7	11/01/24 03:24	+ 1,1 DFA
T243969-08 SV4-15 [Air] Sampled 10/02/24 02:55 (GMT-08:00) Pacific Time (US &				
TO-15	10/14/24 00:00	7	11/01/24 02:55	+ 1,1 DFA