PHASE II ENVIRONMENTAL SITE ASSESSMENT

801/805 N Chester Avenue & 106/108 Decatur Avenue
801/805 N Chester Avenue and 106/108 Decatur Avenue Bakersfield, Kern, CA 93301
UES Project No. 4540.2400028.0000

Updated Report Issuance Date: Febuary 3, 2025

Prepared for:

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1.0 INTRODUCTION

1.1 Purpose of Report

Universal Engineering Sciences has prepared this report detailing the results of a Phase II Soil Investigation at the property located at 801/805 North Chester Avenue and 106/108 Decatur Avenue. A prior Phase I Environmental Site Assessment (ESA) identified Recognized Environmental Conditions (RECs), including a lack of access and documentation regarding a subterranean room on the property; potential residual polycyclic aromatic hydrocarbons (PAHs) from fire combustion; and possible release of lead-based paints due to the age of the structures on the property. Additionally, while not classified as a REC, further investigation was warranted regarding potential environmental risks historically associated with dry cleaning operations that previously occurred on the site. The objective of this Phase II investigation was to obtain soil samples to assess contamination levels and estimate the extent of any impacted soil. This report presents the findings of the investigation and serves as a record of the soil conditions. Site activities were authorized by the Housing Authority of the County of Kern and conducted in accordance with Proposal No. 4540.0924.00004, dated September 24, 2024.

1.2 Property Location/Description

The Subject Property is located at 801/805 North Chester Avenue and 106/108 Decatur Avenue, Bakersfield, Kern County, CA. It encompasses approximately 0.48 acres and consists of four contiguous parcels that are paved and currently vacant. The property is identified by Kern County Assessor's Parcel Numbers (APNs) 113-280-11, -12, -13, and -14. Currently, the western portion of the property is occupied by a parking lot, while the eastern portion features a concrete pad that previously served as the foundation for an existing building. To the north of the Subject Property are commercial and residential apartment units. N. Chester Avenue borders the property to the east, Decatur Street to the south, and single-family residential homes to the west.

Figure 1.2.1: Ariel imagery of the site and surrounding area (Google EarthPro, 2024).

1.3 Historical Background

Based on historical records, the Subject Property operated as a dry cleaner facility in the northwest portion from 1955 to at least 1970, after which it was removed. From at least 1945 to 2020, the eastern portion of the property was home to a bar known as Trout's & the Blackboard Stages. The building formerly recognized as Trout's was acquired by a medical group with the intention of renovating it into a medical office. However, a fire in 2022 destroyed the entire building, which had to be demolished. Currently, the property is vacant.

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2.0 PREVIOUS REPORTS/INVESTIGATION EFFORTS

2.1 Amended Phase I ESA

Phase I ESA was conducted by Universal Engineering Science and was titled "Phase I Environmental Site Assessment, 801/805 N Chester Avenue & 106/108 Decatur Avenue Bakersfield, Kern, CA 93301, UES Project No. 4540.2400020.0000", dated August 21, 2024. This Phase I report made the following findings:

Amendment to Phase I Environmental Site Assessment (ESA)

- ***Amendment Date****: October 2, 2024*
- ***Reason for Amendment:*** *Updated information regarding Per- and Polyfluoroalkyl Substances (PFAS) and Asbestos-Containing Materials (ACMs).*
- ***Summary of Changes:***
    - *PFAS Concerns: New documentation from the Kern County Fire Department indicates that no firefighting foam was used to extinguish the fire on the Subject Property—only water was used.*
    - *Asbestos-Containing Material: A post-fire asbestos survey conducted by the owner identified asbestos only in vinyl flooring. It is assumed that the necessary precautions were taken during demolition.*
- ***Impact on Conclusions:*** *Based on these updates, the following concerns are no longer classified as Recognized Environmental Conditions (RECs):*
    - *PFAS Concerns: PFAS from firefighting foam was originally considered a REC. However, the absence of foam use removes this concern.*
    - *ACMs: While the fire and demolition could have released these materials, the owner's asbestos survey and remediation efforts have mitigated these concerns.*

Upon conclusion of our Phase I ESA, and based on the recent information reviewed, this assessment has revealed evidence of HRECs, CRECs, or RECs as follows:

Recognized Environmental Conditions (REC)

- ***Subterranean Room****: The lack of access or documentation regarding a potential subterranean room beneath the eastern portion of the property presents a REC. The unknown contents and condition of this space raise concerns about possible environmental risks.*
- ***Polycyclic Aromatic Hydrocarbons (PAHs):*** *The fire that destroyed the previous building may have introduced PAHs, hazardous compounds formed during combustion, to the site. These persistent environmental risks constitute a REC.*
- ***Lead-based Paints:*** *Due to the age of development on the property, lead-based paints were likely used. The fire and subsequent demolition may have released these materials, making it a REC.*

The report for this Phase I ESA can be found in the appendix of this report.

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3.0 INVESTIGATION ACTIVITIES

3.1 Scope of Work

Following the findings of the previously completed Phase I Environmental Site Assessment, which identified RECs, UES was engaged to conduct a Phase II Environmental Site Assessment for the subject property. The Phase II investigation involved a comprehensive Soil Study to analyze the presence of volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), PAHs, polychlorinated biphenyls (PCBs), and trace metals. Additionally, the assessment included access to the subterranean room for visual inspection.

The primary goal of the Phase II investigation was to evaluate the extent of contamination, assess the level of soil impact, and identify any potential environmental risks, particularly in the basement area of the property. As part of the investigation, subsurface soil samples were proposed to be collected from eight (8) hand-augured locations, each cored to a depth of two feet.

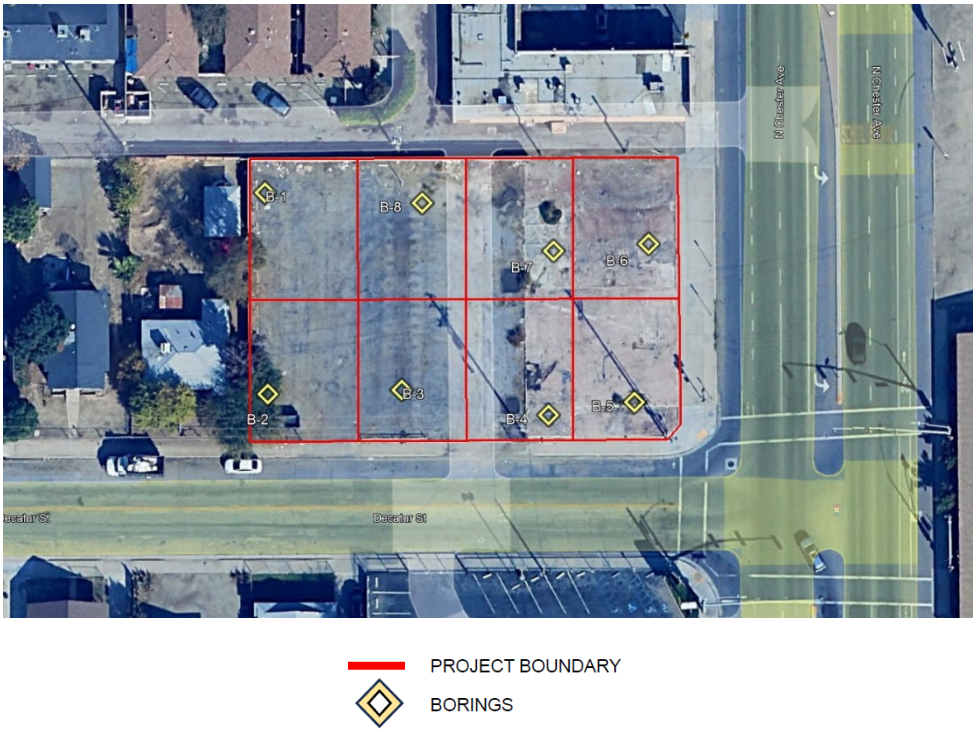

Figure 3.1.2: Sample Location map- A full size location map can be found in the appendix

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3.2 Subterranean Room

On October 4, 2024, UES conducted a site observation at the request of the Housing Authority of the County of Kern. This observation focused on an unidentified subterranean room located on the property. Prior to our arrival, CenCal Construct, a subcontractor engaged by the Housing Authority, had been contracted to remove a steel plate covering the entry to this room.

Upon arrival at the site, we observed that CenCal had successfully removed the steel plate as planned. After a visual assessment, we determined that conditions within the room were unsafe for entry. No noticeable odors were detected from the space. However, the visible interior was filled with significant amounts of damaged building material debris, likely remnants from the prior structure fire. Moreover, we were unable to assess the room's full interior condition or obtain environmental samples due to these obstructions.

During our inspection, it was apparent that the space extended significantly beyond our initial expectations. While we had anticipated a confined area, the room's lateral extent appeared to expand beyond the limits of our visual inspection. The exact boundaries of the room could not be determined from our vantage point.

Based on our visual observations, the room does not appear to pose an immediate environmental concern; however, the potential presence of hazardous materials within the space cannot be ruled out. Following our assessment, CenCal resealed the area securely to prevent unauthorized access. We recommend that any future debris removal in this space be conducted with caution and in compliance with applicable regulatory standards, with these considerations integrated into any future site development or remediation plans.

3.3 Soil Samples

On October 4, 2024, UES conducted a soil study at the subject site as part of the Phase II Environmental Site Assessment to investigate the potential presence of soil contamination. The sampling plan initially involved the collection of 16 soil samples from eight designated locations, with samples taken at two depths: zero (0) to one (1) foot and one (1) to two (2) feet below grade. Sample locations were strategically selected based on a 4 x 2 grid structure, designed to confirm representative coverage across the subject property. Accessibility considerations were also factored into the location of each sampling point.

However, following the visual inspection of the subterranean room, it was observed that the room extended into the area where one of the proposed sample locations was situated. Due to restricted access to this area, the affected sample location (B4) was removed from the sampling plan. Consequently, the sampling process was adjusted, and 14 soil samples were collected from the remaining seven (7) locations,

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with each sample taken at the specified depths of zero (0) to one (1) foot and one (1) to two (2) feet below grade.

Soil coring was employed to collect subsurface samples from paved areas. Specifically, coring was performed through concrete pavement in the eastern portion of the property and asphalt in the western portion to access the underlying soil. For direct sample recovery, a bucket auger with a "T" handle was utilized.

To assess potential contamination, a photo-ionization detector (PID) was employed in the field to measure the concentration of volatile organic compounds (VOCs) in each soil sample. Prior to sample extraction, all sampling equipment was properly sanitized in accordance with U.S. EPA Region 9 Field Sampling Guidance Document #1230 (Sampling Equipment Decontamination). Each collected sample was preserved in a 16-ounce clear sample jar, placed in a cooler with ice for transportation, and then transferred under chain-of-custody procedures to Pace Analytical, a NELAP-certified lab, for laboratory testing and analysis.

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4.0 ANALYTICAL RESULTS

4.1 Soil Investigation

Fourteen (14) soil samples were collected and submitted, under chain of custody, to Pace Analytical for testing via EPA methods:

- EPA Method 8082: Polychlorinated biphenyls Analysis (PCB)
- EPA Method 8260: Volatile Organic Analysis (VOC)
- EPA Method 8270 Polynuclear Aromatic Hydrocarbons (PAH)
- EPA Method 8015B: Purgeable Aromatics and Total Petroleum
- EPA Method 8015M: Total Petroleum Hydrocarbons (TPH)
- EPA Method 6010/7471: CAM 17 Metals- Total Concentration (TTLC)

A summary of the analytical results of the soil samples are presented in Tables 1-4. There were no VOC sample results which exceeded the laboratory reporting limit and as such, no table for VOCs is provided. These results have been compared to relevant screening levels from authoritative sources, including the U.S. Environmental Protection Agency (EPA) Regional Screening Levels (RSLs), the California Human Health Risk Assessment (HHRA) Note 3 of the Department of Toxic Substances Control (DTSC) Modified Screening Levels (DTSC-SLs), and the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (SFWQCB-ESLs). These comparisons were made in the context of a residential land use scenario.

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Table 1: Polychlorinated Biphenyls (PCBs)

Table 1 presents the concentrations of PCBs.

- The majority of the PCB analytes were not detected in the soil samples. However, five samples (B-1 @ 0'-1', B-2 @ 0'-1', B-3 @ 0'-1', B-5 @ 0'-1', B-8 @ 0'-1') returned values above their laboratory detection limits for PCB 1260. Despite these detections, the reported concentrations remain below established levels of concern.

Analyte	Regulatory Screening Levels (mg/kg)				Analytical Laboratory Sample Results (mg/kg)				
	DTSC HHRA		EPA RSLs						
	Residential	Commericial	Residential	Commericial	B-1	B-2	B-3	B-5	B-8
					0-1 feet	0-1 feet	0-1 feet	0-1 feet	0-1 feet
PCB 1260 (Aroclor 1260)	0.24	0.6	0.24	0.99	0.042	0.029	0.0084	0.022	0.011

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Table 2 Polynuclear Aromatic Hydrocarbons (PAHs)

Table 2 summarizes the concentrations of PAHs.

- The majority of PAH analytes were not detected in the soil samples.
- However, sample B-1 at a depth of 0'-1' showed detectable concentrations of Chrysene, Fluoranthene, and Pyrene, which exceeded their laboratory detection limits. Despite these detections, the reported concentrations remain below the levels of concern for human health.

Analyte	Regulatory Screening Levels (mg/kg)						Analytical Laboratory Sample Results (mg/kg)
	DTSC HHRA		EPA RSLs		SF RWQCB		B-1
	Residential	Commericial	Residential	Commericial	Residential	Commericial	0-1 feet
Benzo[b]fluoranthene	1.1	13	1.1	21	1.1	21	0.042
Chrysene	110	1300	110	2100	2.2	-	1.042
Fluoranthene	-	-	2400	30000	0.69	-	2.042
Pyrene	-	-	1800	23000	45	-	3.042

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Table 3 Purgeable Aromatics and Total Petroleum Hydrocarbons (TPH)

Table 3 presents the concentrations of Purgeable Aromatics and TPH, categorized by gasoline range (C4-C12), diesel, and motor oil:

- Gasoline Range Hydrocarbons (C4-C12): No concentrations of gasoline range hydrocarbons were detected in any of the soil samples.
- TPH-Diesel: TPH-Diesel was detected in all 14 samples, with concentrations ranging from 0.79 mg/kg to 520 mg/kg. Most TPH-Diesel concentrations were below the established regulatory screening levels, except for the following samples:
    - **Sample B-5 @ 0'-1'**: This sample recorded a concentration of **520 mg/kg,** exceeding both regulatory screening levels:
        - DTSC HHRA Screening Level: 97 mg/kg
        - SFWQCB ESL: 260 mg/kg
    - **Sample B-7 @ 0'-1'**: This sample had a concentration of **160 mg/kg**, exceeding the DTSC HHRA screening levels but remaining below the actionable limit set by the SFWQCB ESL.
- TPH-Motor Oil: TPH-Motor Oil was detected in all 14 samples, with concentrations ranging from 6.2 mg/kg to 36,000 mg/kg. All TPH-motor oil concentrations were below the established regulatory screening levels, except for one sample:
    - **Sample B-5 @ 0'-1'**: This sample recorded a concentration of **36000 mg/kg**, exceeding both regulatory screening levels:
        - DTSC HHRA Screening Level: 2,400 mg/kg
        - SFWQCB ESL: 12,000 mg/kg

Analyte	Regulatory Screening Levels (mg/kg)				Analytical Laboratory Sample Results (mg/kg)													
	DTSC HHRA		SF RWQCB															
	Residential	Commericial	Residential	Commericial	B-1	B-1	B-2	B-2	B-3	B-3	B-5	B-5	B-6	B-6	B-7	B-7	B-8	B-8
					0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet
TPH-Diesel	97	500	260	1200	1.7	0.79	1.5	1.5	2.8	4.5	520	13	11	19	160	33	2.7	4.8
TPH- Motor Oil	2400	18000	12000	180000	24	6.2	20	19	34	80	36000	97	190	440	1400	230	30	59

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Table 4 Total Metals Concentrations

Table 4 summarizes the concentrations of CAM Metal Total Concentrations (TTLC) detected in the samples. The majority of analytes were present in all fourteen samples but were reported below the established levels of concern, with the exceptions of arsenic and lead.

- Arsenic was detected in all 14 samples, with concentrations ranging from 4 mg/kg to 13 mg/kg, exceeding the DTSC Screening Level (DTSC-SL) of 0.41 mg/kg for residential land use.
    - Notably, the concentrations of arsenic in two samples, B-5 @ 0'-1' and B-5 @ 1'-2', exceeded the expected arsenic background levels for the Bakersfield region, which typically range from 7.1 mg/kg to 8.4 mg/kg.
    - The arsenic concentrations in the other 12 samples remained below these background levels.
- Lead was detected in one sample (B-3 @ 1'-2') at a concentration of **190 mg/kg**, which exceeds both the DTSC HHRA-SL and the SFWQCB-ESL of 80 mg/kg for residential land use.

Analyte	Regulatory Screening Levels (mg/kg)						Analytical Laboratory Sample Results (mg/kg)													
	DTSC HHRA		EPA RSLs		SF RWQCB		B-1	B-1	B-2	B-2	B-3	B-3	B-5	B-5	B-6	B-6	B-7	B-7	B-8	B-8
	Residential	Commericial	Residential	Commericial	Residential	Commericial	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet	0-1 feet	1-2 feet
Arsenic	0.41	4.2	0.68	3	0.26	3.6	5.1	7.1	4.9	6.1	4.2	5.7	9.3	13	4	4	4.1	5.4	5.5	4.2
Lead	80	500	202	800	80	320	27	5.9	16	25	28	190	18	3.8	23	26	20	5.7	17	7.6

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5.0 CONCLUSIONS

The analytical results indicate that the majority of contaminants analyzed in soil samples from the site are within acceptable limits for residential use. However, elevated levels of certain substances, such as TPH-Diesel and TPH-Motor Oil, as well as trace metals like arsenic and lead, were observed in specific samples.

The primary area of concern is located at sample B-3 at a depth of one to two feet bgs which exhibited lead concentrations that exceed the DTSC and SFWQCB screening levels for residential scenarios. The elevated lead concentrations detected are likely attributable to lead-based paints previously utilized in the building before demolition. Based on this source of lead, impacts will likely be limited to near surface soils in the vicinity of the former structure and are unlikely to be widespread as indicated by analytical results.

An additional area of concern includes sample B-5 @ 0'-1' due to elevated concentrations of TPH- diesel, TPH- Motor Oil, and arsenic. The elevated concentrations in the sample collected B-5 are likely influenced by its proximity to the street and main pedestrian walk area, indicating that these contaminants may have accumulated due to environmental exposure and urban activities. Additionally, due to the lack of detectable VOCs and/or PAHs in this area, it is likely that TPH detections are associated with the asphalt surfacing and runoff rather than a release of petroleum. Based on sample results, impacts appear to only extend to approximately one-foot bgs.

From our visual observations of the subterranean room (basement) it does not appear to pose an immediate environmental concern; however, the potential presence of hazardous materials within this space cannot be ruled out. Notably, this room extends into the area where one of the originally designated sample locations was situated. Due to restricted access to this area, the affected sample location was removed from the sampling plan.

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6.0 RECOMMENDATIONS

The primary areas of concern are limited to B3 from one to two feet bgs due to lead impacts above the action level and B5 from zero to one-foot bgs due to limited TPH impacts above residential action levels.

Although impacts appear to be limited, UES recommends that impacted soils in the vicinity of B3 (lead) be excavated to a depth of two feet prior to development and in the vicinity of B5 (TPH) to a depth of one foot prior to development. Removed soils should be properly disposed of and should not be reused on-site. Given the limited nature of impacts noted and their likely association with asphaltic material and/or former building materials, UES opines that additional delineation of the area is not necessary at this time.

Once excavation is complete, soil at the excavation margins around B3 should be sampled for lead to confirm that all concentrations are at or below residential levels. Upon verifying that the excavation area is free of lead impacts, clean fill material should be imported. As impacts noted in B5 are opined to be related to asphaltic material and are *de minimis* in volume, follow up sampling for TPH in this location is not necessary.

As observation of the basement was impeded, UES recommends that all waste removed from the basement be inspected to determine proper disposal requirements. Should extensive cracking and staining of the basement floor be noted, additional environmental sampling should be discussed. Additionally, due to the unknown nature and extent of the based, construction activities around and over the basement should be evaluated by licensed geotechnical or civil engineer.

It is important to note that guarantees cannot be made for areas of the subject site that were not surveyed, and previously unknown conditions may be uncovered during future site development. If unexpected conditions are discovered, the services of an environmental professional should be contracted to assess the nature of these conditions and determine any additional remediation needed.

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7.0 LIMITATIONS

Our activities have been carried out with diligence and detail consistent with prevailing standards and engineering practice. The scope of services was limited to observations made during our time on site, results of on-site sampling and testing, and a review of readily available reports and literature. The investigation focused on providing sampling and analytical testing of notable features and soils across the subject property. The analytical results provide current data to assist in the evaluation of the subject property from the past site operations as they are understood.

There is no investigation that is thorough enough to absolutely exclude the presence of hazardous materials at the Property. Therefore, if none are identified as part of the services noted herein, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the limited investigation.

We have performed our services for this project in accordance with our proposal and understanding Housing Authority of the County of Kern, and the report is solely for the use of Housing Authority of the County of Kern subject to the limitations contained herein. Conclusions are representative of the property conditions at the time of the site activities.

Respectfully submitted,

UES

REGISTERED PROFESSIONAL ENGINEER
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CIVIL
STATE OF CALIFORNIA

Digitally signed by Caitlin Jelle
Date: 2025.02.11 14:23:51 -08'00'

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Sr. Environmental Manager

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Staff Scientist

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8.0 REFERENCES

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FIGURES

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LEGEND

PROJECT BOUNDARY

N

0 50 100

(IN FEET)

Source: Google EarthPro, (2024) *N. Chester and Decatur- Phase II, Kern County, CA 93301, 34°24'50.18"N, 119°01'17.38"W*

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N. Chester Avenue & Decatur St.- Phase II

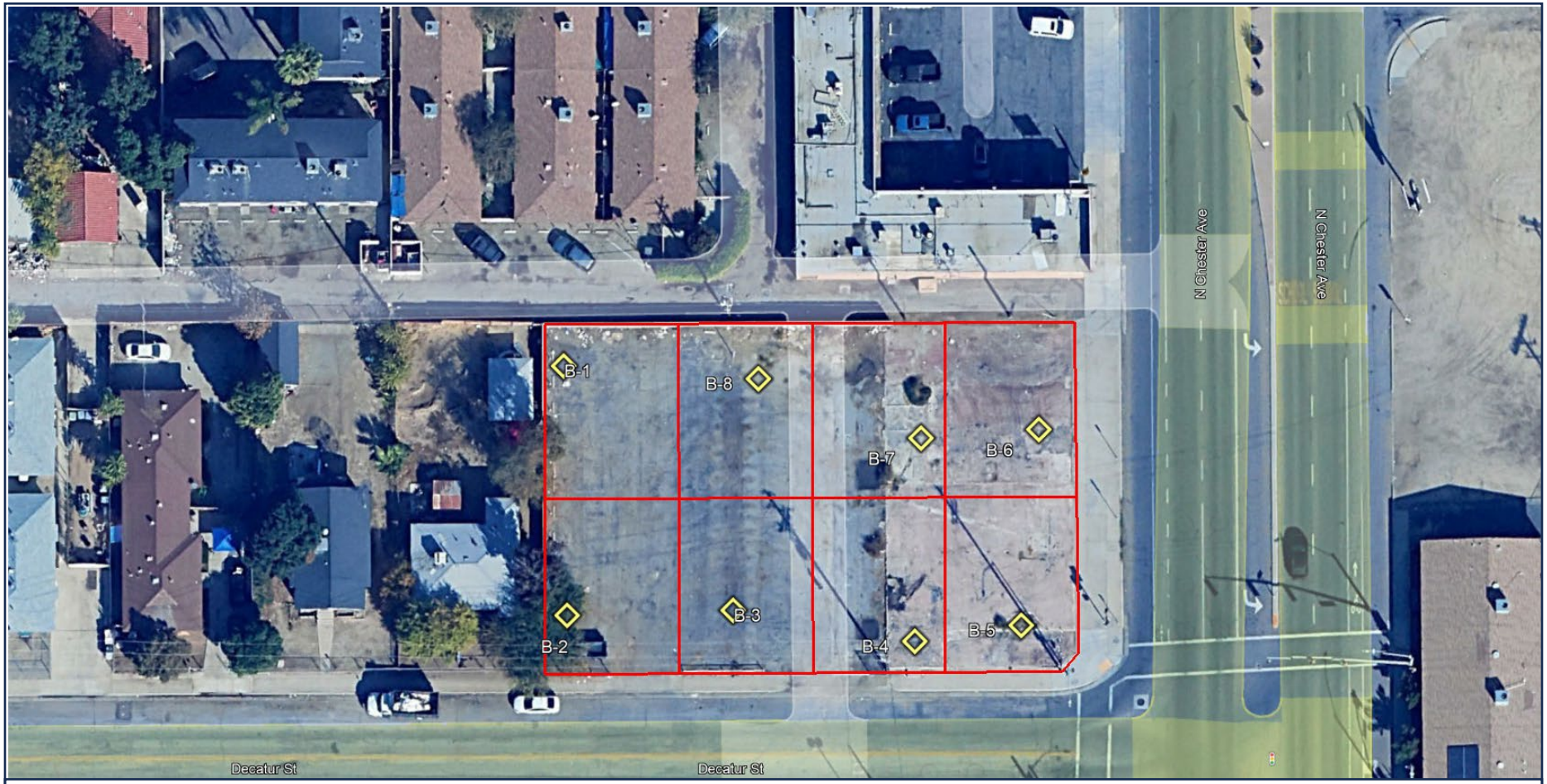
801/805 N Chester Avenue & 106/108 Decatur Street

Bakersfield, Kern County, CA 93301

Date: October 2024

Project No.:4540.2400028.0000

Aerial Site Map



LEGEND

PROJECT BOUNDARY

BORINGS

Source: Google EarthPro, (2024) *N. Chester and Decatur- Phase II, Kern County, CA 93301, 34°24'50.18"N, 119°01'17.38"W*

N

0 50 100

(IN FEET)

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N. Chester Avenue & Decatur St.- Phase II

801/805 N Chester Avenue & 106/108 Decatur Street

Bakersfield, Kern County, CA 93301

Date: October 2024

Project No.:4540.2400028.0000

Exploration Map

Stairway leading into room

Observation leads us to believe the room extends eastward

Substantial damaged building material debris

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N. Chester Avenue & Decatur St.- Phase II

801/805 N Chester Avenue & 106/108 Decatur Street

Bakersfield, Kern County, CA 93301

Date: October 2024

Project No.:4540.2400028.0000

Subterranean Room

TABLES

Summarized Analytical Lab Results

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Table 1

Summary of Analytical Results for Polychlorinated Biphenyls

N. Chester Ave & Decatur St. Phase II

Sample ID	Sample Date	Sample Depth	EPA Method 8082: Polychlorinated Biphenyls						
			PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB1254	PCB 1260
			Concentrations Reported in milligrams per kilogram (mg/kg)						
B-1	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	**0.042**
B-1	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND
B-2	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	**0.029**
B-2	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND
B-3	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	**0.0084**
B-3	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND
B-5	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	**0.022**
B-5	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND
B-6	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND
B-6	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND
B-7	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND
B-7	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND
B-8	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	**0.011**
B-8	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND

Table 2

Summary of Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

N. Chester Ave & Decatur St. Phase II

			EPA Method 8260B: Volatile Organic Analysis																
Sample ID	Sample Date	Sample Depth	Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[a]pyrene	Benzo[g,h,i]perylene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
			Concentrations Reported in milligrams per kilogram (mg/kg)																
B-1	10/14/2024	0'-1'	ND	ND	ND	ND	**0.017**	ND	ND	ND	**0.016**	ND	**0.017**	ND	ND	ND	ND	**0.017**
B-1	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-2	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-2	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-5	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-5	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-6	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-6	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-7	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-7	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-8	10/14/2024	0'-1'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-8	10/14/2024	1'-2'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3

Summary of Analytical Results for Purgeable Aromatics and Total Petroleum Hydrocarbons

N. Chester Ave & Decatur St. Phase II

Sample ID	Sample Date	Sample Depth	EPA Method 8015B: Purgeable Aromatics and Total Petroleum Hydrocarbons		
			Gasoline Range (C4-C12)	TPH- Diesel Range Organics (C10-C28)	TPH- Oil Range Organics (C28-C40)
			Concentrations Reported in milligrams per kilogram (mg/kg)		
B-1	10/14/2024	0'-1'	ND	**1.7**	**24**
B-1	10/14/2024	1'-2'	ND	**0.79**	**6.2**
B-2	10/14/2024	0'-1'	ND	**1.5**	**20**
B-2	10/14/2024	1'-2'	ND	**1.3**	**19**
B-3	10/14/2024	0'-1'	ND	**2.8**	**34**
B-3	10/14/2024	1'-2'	ND	**4.5**	**80**
B-5	10/14/2024	0'-1'	ND	**520**	**36000**
B-5	10/14/2024	1'-2'	ND	**13**	**97**
B-6	10/14/2024	0'-1'	ND	**11**	**190**
B-6	10/14/2024	1'-2'	ND	**19**	**440**
B-7	10/14/2024	0'-1'	ND	**160**	**1400**
B-7	10/14/2024	1'-2'	ND	**33**	**230**
B-8	10/14/2024	0'-1'	ND	**2.7**	**30**
B-8	10/14/2024	1'-2'	ND	**4.8**	**59**

Table 4

Summary of Analytical Results for CAM 17 Metals Total Concentrations

N. Chester Ave & Decatur St. Phase II

			EPA Method 6010B:Total Concentrations (TTLC)																
Sample ID	Sample Date	Sample Depth	Antimony	Arsenic	Barium	Beryllium	Cadium	Chromium	Cobalt	copper	lead	mercury	molybdenum	nickel	selenium	silver	thallium	vanadium	zinc
			Concentrations Reported in milligrams per kilogram (mg/kg)																
B-1	10/14/2024	0'-1'	ND	**5.1**	110	0.44	0.36	20	7.8	16	27	0.058	0.6	18	ND	0.16	ND	34	79
B-1	10/14/2024	1'-2'	ND	**7.1**	99	0.49	0.29	22	8	16	5.9	0.057	0.53	21	ND	0.16	ND	42	50
B-2	10/14/2024	0'-1'	ND	**4.9**	89	0.3	0.28	14	6.1	10	16	0.064	0.54	12	ND	ND	ND	32	56
B-2	10/14/2024	1'-2'	ND	**6.1**	100	0.42	0.4	19	8.3	12	25	0.18	0.74	17	ND	0.075	ND	37	80
B-3	10/14/2024	0'-1'	ND	**4.2**	89	0.32	0.41	14	6.4	11	28	0.084	0.48	12	ND	ND	ND	28	85
B-3	10/14/2024	1'-2'	ND	**5.7**	200	0.36	1.2	22	6.5	18	**190**	0.17	0.55	15	ND	0.11	ND	32	240
B-5	10/14/2024	0'-1'	ND	**9.3**	100	0.38	0.41	15	6.7	12	18	0.033	0.7	17	ND	ND	ND	37	50
B-5	10/14/2024	1'-2'	ND	**13**	110	0.37	0.21	10	4.4	8.6	3.8	ND	0.65	8	ND	ND	ND	35	34
B-6	10/14/2024	0'-1'	ND	**4**	82	0.24	0.64	12	5	9.2	23	0.039	0.42	11	ND	ND	ND	27	100
B-6	10/14/2024	1'-2'	ND	**4**	82	0.23	0.27	12	4.4	9.7	26	0.097	0.3	12	ND	ND	ND	25	59
B-7	10/14/2024	0'-1'	ND	**4.1**	71	0.28	0.23	13	5.5	12	20	0.086	0.37	12	ND	ND	ND	27	54
B-7	10/14/2024	1'-2'	ND	**5.4**	66	0.27	0.21	13	5.5	8.8	5.7	0.088	0.42	12	ND	ND	ND	27	40
B-8	10/14/2024	0'-1'	ND	**5.5**	100	0.47	0.43	23	11	17	17	0.12	0.56	22	ND	0.18	ND	38	63
B-8	10/14/2024	1'-2'	ND	**4.2**	74	0.29	0.25	17	6.4	12	7.6	0.08	0.42	12	ND	ND	ND	33	42

APPENDIX A

Project Personnel Credentials

3600 Pegasus Drive, Suite #11, Bakersfield, CA 93308
(661) 344-9946| oneues.com

PROJECT PERSONNEL CREDENTIALS

CAITLIN JELLE, PE, CEM – Sr. Environmental Manager

Caitlin Jelle has over 14 years of environmental consulting experience as a Professional Environmental Engineer and Project Manager. Her primary areas of expertise include project management for large-scale work, regulatory engagement and negotiations, Phase I and II environmental site assessments (ESAs), remediation of hazardous and regulated wastes in soil and groundwater, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site documentation and remediation, and characterization and management of non-hazardous and regulated wastes. Caitlin's responsibilities have included comprehensive work plan and report preparation, being a regulatory liaison, regulatory reporting, permit preparation, and project management, as well as field activities including environmental media sampling, drilling oversight, excavation oversight, health and safety management, and site superintendent.

Isabel Ramos – *Environmental Scientist*

Ms. Ramos has a year of experience and is an environmental professional in training with a Bachelor of Science in Bioengineering. She possesses a strong foundation in scientific principles and analytical skills that are highly relevant to the environmental field. Through coursework in biotechnology, quantitative biochemistry, and biophysics, Ms. Ramos has developed a solid understanding of environmental processes and their implications. Her exceptional analytical skills allow her to effectively assess complex data and draw meaningful conclusions.

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APPENDIX B

Analytical Laboratory Reports and Chain of Custody

3600 Pegasus Drive, Suite #11, Bakersfield, CA 93308
(661) 344-9946| oneues.com

Pace Analytical®
ENVIRONMENTAL SCIENCES

Date of Report: 10/25/2024

Isabel Ramos

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Client Project:	4540.2400028.0000
Pace Project:	N. Chester Ave & Decatur St. Phase II
Pace Work Order:	2416551
Invoice ID:	B506135, B506872

Enclosed are the results of analyses for samples received by the laboratory on 10/14/2024. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supersedes Report ID 1001546038

Sincerely,

Contact Person: Cari Bernotas
Client Services Rep.

Steve Bennett
Operations Manager

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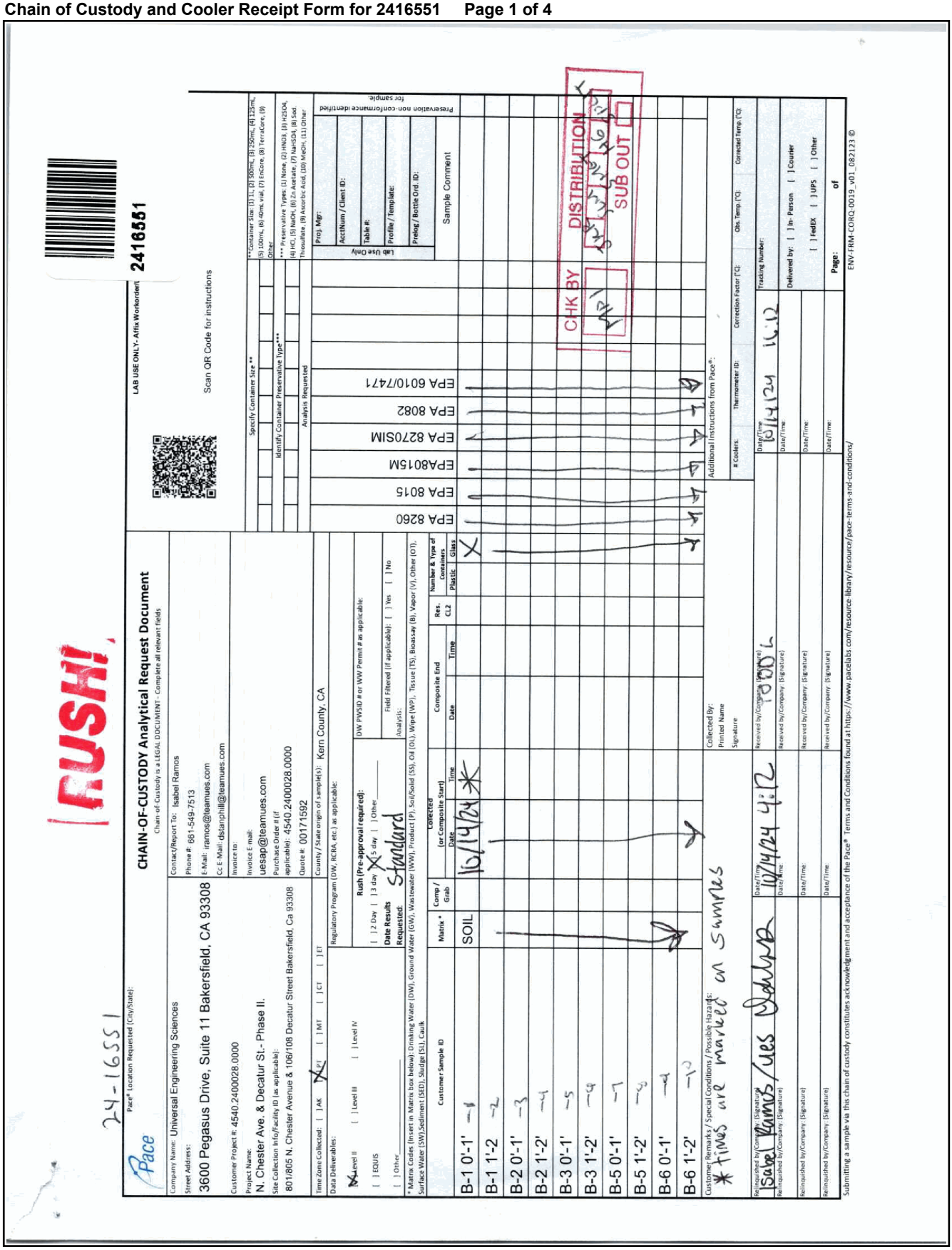
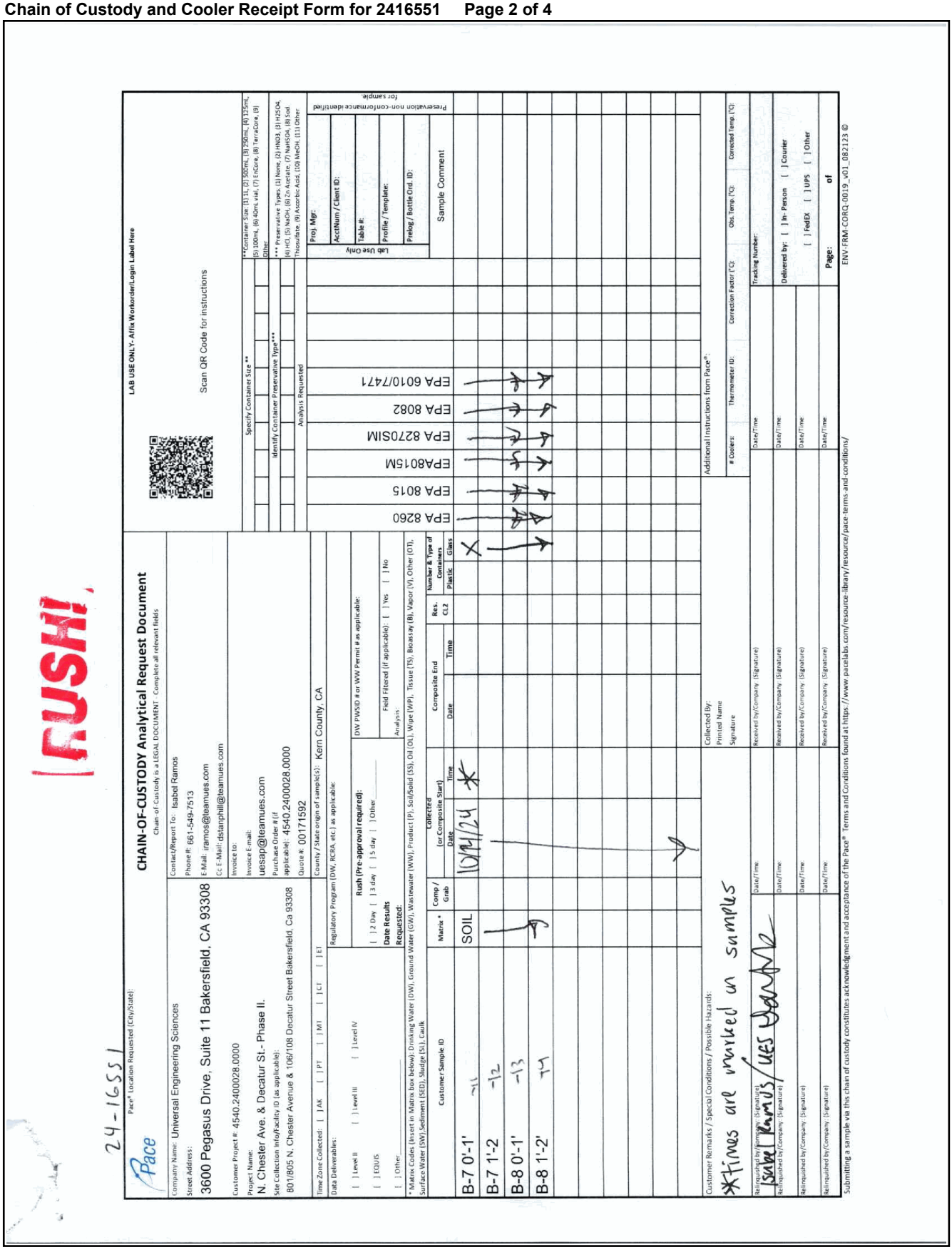
Chain of Custody and Cooler Receipt Form for 2416551 Page 1 of 4



Chain of Custody and Cooler Receipt Form for 2416551 Page 2 of 4



24-16551

RUSH!

Pace® Location Requested (City/State): Pace

CHAIN-OF-CUSTODY Analytical Request Document
Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Universal Engineering Sciences
Street Address: 3600 Pegasus Drive, Suite 11 Bakersfield, CA 93308
Contact/Report To: Isabel Ramos
Phone #: 661-549-7513
E-Mail: iramos@teamues.com
Cc E-Mail: dstanphill@teamues.com

Customer Project #: 4540.2400028.0000
Project Name: N. Chester Ave. & Decatur St.- Phase II.
Site Collection Info/Facility ID (as applicable): 801/805 N. Chester Avenue & 1061108 Decatur Street Bakersfield, Ca 93308

Invoice to:
Invoice E-mail: uesap@teamues.com
Purchase Order # (if applicable): 4540.2400028.0000
Quote #: 00171592

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) Terracore, (9) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr:
AcctNum / Client ID:
Table #:
Profile / Template:
PreLog / Bottle Ord. ID:
Preservation non-conformance identified for sample:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET
County / State origin of sample(s): Kern County, CA

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested:
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT).
Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res. Cl 2	Number & Type of Containers Plastic	Glass	EPA 8260	EPA 8015	EPA8015M	EPA 8270SIM	EPA 8082	EPA 6010/7471	Sample Comment
B-7 0'-1'	SOIL		10/4/24	*					X							
B-7 1'-2 -12																
B-8 0'-1' -13																
B-8 1'-2' -14																

Customer Remarks / Special Conditions / Possible Hazards:
*Times are marked on samples

Collected By: Printed Name / Signature

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):
Tracking Number:
Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Isabel Ramos/UES			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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PACE ANALYTICLA — **COOLER RECEIPT FORM** — Page 3 Of 2

Submission #: 24-16551

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ GSO / GLS ☐ Hand Delivery ☑ Pace Lab Field Service ☐ Other ☐ (Specify)_____	Ice Chest ☐ None ☑ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☑ W / S

Refrigerant: Ice ☐ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: N/A Thermometer ID: 366 Date/Time 10-14-24

Temperature: (A) 21.1 °C / (C) 21.1 °C Analyst Init TJC 1612

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A						
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: TJL Date/Time: 10-14-24 1720

A = Actual / C = Corrected

Rev 23 05/20/22

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PACE ANALYTICLA — COOLER RECEIPT FORM — Page 1 Of 2

Submission #: 24-16551

SHIPPING INFORMATION
Fed Ex ☐ .UPS ☐ GSO / GLS ☐ Hand Delivery ☑
Pace Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☑
W / S

Refrigerant: Wet Ice ☑ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: N/A Thermometer ID: 36F

Temperature: (A) 21.0 °C / (C) 21.0 °C

Date/Time 10-24-24 1712

Analyst Init TJC

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR	A	A	A	A	A	A	A	A	A	A
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: (-1 1411) (-2 1413) (-3 1400) (-4 1402) (-5 1421) (-6 1422) (-7 1318) (-8 1320) 23
(-9 1326) (-10 1331) (-11 1434) (-12 1436) (-13 1358) (-14 1359)

Sample Numbering Completed By: TJC Date/Time: 10-24-24 1720

A = Actual / C = Corrected

Rev 23 05/20/22

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Pace Analytical®
ENVIRONMENTAL SCIENCES

Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2416551-01	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:11
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-1 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-02	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:13
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-1 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-03	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-2 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-04	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:02
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-2 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-05	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:21
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-3 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-06	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:22
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-3 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-07	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 13:18
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-5 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil

Pace Analytical®
ENVIRONMENTAL SCIENCES

Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2416551-08	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 13:23
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-5 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-09	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 13:28
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-6 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-10	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 13:31
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-6 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-11	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:34
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-7 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-12	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 14:36
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-7 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-13	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 13:53
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-8 0'-1'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil
2416551-14	**COC Number:**	---	**Receive Date:**	10/14/2024 16:12
	Project Number:	---	**Sampling Date:**	10/14/2024 13:54
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	B-8 1'-2'	**Lab Matrix:**	Solids
	Sampled By:	Isabel Ramos	**Sample Type:**	Soil

Pace Analytical®
ENVIRONMENTAL SCIENCES

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0039	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.010	0.0043	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	0.010	0.0035	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1254	ND	mg/kg	0.010	0.0025	EPA-8082A	ND		1
PCB-1260	**0.042**	**mg/kg**	**0.010**	**0.0026**	**EPA-8082A**	**ND**		**1**
Total PCB's (Summation)	**0.042**	**mg/kg**	**0.010**	**0.0050**	**EPA-8082A**	**ND**		**1**
Decachlorobiphenyl (Surrogate)	48.3	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 18:27	HKS	GC-14	0.962	B198928	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.2	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.2	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2416551-01	**Client Sample Name:**	B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 14:09	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	**0.017**	**mg/kg**	**0.015**	**0.0019**	**EPA-8270C-SIM**	**ND**	**A10**	**1**
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	**0.016**	**mg/kg**	**0.015**	**0.0020**	**EPA-8270C-SIM**	**ND**	**A10**	**1**
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	**0.017**	**mg/kg**	**0.015**	**0.0016**	**EPA-8270C-SIM**	**ND**	**A10**	**1**
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	**0.017**	**mg/kg**	**0.015**	**0.0016**	**EPA-8270C-SIM**	**ND**	**A10**	**1**
Nitrobenzene-d5 (Surrogate)	58.4	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	63.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	63.3	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 13:02	OLH	MS-B7	5.068	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/19/24 01:57	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**1.7**	**mg/kg**	**1.0**	**0.70**	**EPA-8015B**	**ND**	**A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**24**	**mg/kg**	**2.0**	**0.98**	**EPA-8015B**	**ND**	**A57**	**1**
Tetracosane (Surrogate)	72.4	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 19:26	BUP	GC-19	1.007	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-01 | **Client Sample Name:** B-1 0'-1', 10/14/2024 2:11:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**5.1**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**110**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.44**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.36**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**20**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**7.8**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**16**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**27**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.058**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.60**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.065**	**J**	**1**
Nickel	**18**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	**0.16**	**mg/kg**	**0.50**	**0.067**	**EPA-6010B**	**ND**	**J**	**1**
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**34**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**79**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 17:48	JEH	ICP5	1	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:25	TMT	CETAC3	1.025	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0039	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.010	0.0043	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	0.010	0.0035	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1254	ND	mg/kg	0.010	0.0025	EPA-8082A	ND		1
PCB-1260	ND	mg/kg	0.010	0.0026	EPA-8082A	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082A	ND		1
Decachlorobiphenyl (Surrogate)	58.3	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 18:39	HKS	GC-14	0.974	B198928	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 14:33	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.0030	0.00040	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Anthracene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	mg/kg	0.0030	0.00038	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	mg/kg	0.0030	0.00041	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	mg/kg	0.0030	0.00037	EPA-8270C-SIM	ND		1
Chrysene	ND	mg/kg	0.0030	0.00040	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	mg/kg	0.0030	0.00071	EPA-8270C-SIM	ND		1
Fluoranthene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Fluorene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.0030	0.00053	EPA-8270C-SIM	ND		1
Naphthalene	ND	mg/kg	0.0030	0.00054	EPA-8270C-SIM	ND		1
Phenanthrene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Pyrene	ND	mg/kg	0.0030	0.00033	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	50.9	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	56.9	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	59.7	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 11:50	OLH	MS-B7	0.984	B198970	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/19/24 02:22	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**0.79**	**mg/kg**	**1.0**	**0.70**	**EPA-8015B**	**ND**	**J,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**6.2**	**mg/kg**	**2.0**	**0.98**	**EPA-8015B**	**ND**	**A57**	**1**
Tetracosane (Surrogate)	84.6	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 19:44	BUP	GC-19	0.984	B198922	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-02 | **Client Sample Name:** B-1 1'-2', 10/14/2024 2:13:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**7.1**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**99**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.49**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.29**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**22**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**8.0**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**16**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**5.9**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.057**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.53**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.060**	**J**	**1**
Nickel	**21**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	**0.16**	**mg/kg**	**0.50**	**0.067**	**EPA-6010B**	**ND**	**J**	**1**
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**42**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**50**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:00	JEH	ICP5	0.926	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:34	TMT	CETAC3	0.992	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0039	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	2
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	2
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	2
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	2
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	2
PCB-1260	**0.029**	**mg/kg**	**0.020**	**0.0052**	**EPA-8082A**	**ND**	**A10**	**2**
Total PCB's (Summation)	**0.029**	**mg/kg**	**0.020**	**0.010**	**EPA-8082A**	**ND**	**A10**	**2**
Decachlorobiphenyl (Surrogate)	66.7	%	40 - 120 (LCL - UCL)		EPA-8082A			2

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 18:50	HKS	GC-14	1	B198928	EPA 3546
2	EPA-8082A	10/15/24 20:40	10/18/24 18:50	HKS	GC-14	2	B198928	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.2	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 14:56	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	62.3	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	55.8	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	54.3	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 13:26	OLH	MS-B7	5.051	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/20/24 11:11	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**1.5**	**mg/kg**	**1.0**	**0.70**	**EPA-8015B**	**ND**	**A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**20**	**mg/kg**	**2.0**	**0.98**	**EPA-8015B**	**ND**	**A57**	**1**
Tetracosane (Surrogate)	87.2	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 20:01	BUP	GC-19	1.014	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-03 | **Client Sample Name:** B-2 0'-1', 10/14/2024 2:00:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**4.9**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**89**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.30**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.28**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**14**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**6.1**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**10**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**16**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.064**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.54**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.065**	**J**	**1**
Nickel	**12**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**32**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**56**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:02	JEH	ICP5	1	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:35	TMT	CETAC3	1.008	B199119	EPA 7471A

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0039	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.010	0.0043	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	0.010	0.0035	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1254	ND	mg/kg	0.010	0.0025	EPA-8082A	ND		1
PCB-1260	ND	mg/kg	0.010	0.0026	EPA-8082A	ND		1
Total PCB's (Summation)	ND	mg/kg	0.010	0.0050	EPA-8082A	ND		1
Decachlorobiphenyl (Surrogate)	223	%	40 - 120 (LCL - UCL)		EPA-8082A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 19:02	HKS	GC-14	0.955	B198928	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.5	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 15:20	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	64.5	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	66.0	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	65.9	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 13:51	OLH	MS-B7	5.051	B198970	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	92.5	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/19/24 04:00	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**1.3**	**mg/kg**	**1.0**	**0.70**	**EPA-8015B**	**ND**	**A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**19**	**mg/kg**	**2.0**	**0.98**	**EPA-8015B**	**ND**	**A57**	**1**
Tetracosane (Surrogate)	87.0	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 20:18	BUP	GC-19	0.990	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-04 | **Client Sample Name:** B-2 1'-2', 10/14/2024 2:02:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**6.1**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**100**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.42**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.40**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**19**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**8.3**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**12**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**25**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.18**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**		**2**
Molybdenum	**0.74**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.065**	**J**	**1**
Nickel	**17**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	**0.075**	**mg/kg**	**0.50**	**0.067**	**EPA-6010B**	**ND**	**J**	**1**
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**37**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**80**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:08	JEH	ICP5	1	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:37	TMT	CETAC3	0.992	B199119	EPA 7471A

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0039	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.010	0.0043	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	0.010	0.0035	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1254	ND	mg/kg	0.010	0.0025	EPA-8082A	ND		1
PCB-1260	**0.0084**	**mg/kg**	**0.010**	**0.0026**	**EPA-8082A**	**ND**	**J**	**1**
Total PCB's (Summation)	**0.0084**	**mg/kg**	**0.010**	**0.0050**	**EPA-8082A**	**ND**	**J**	**1**
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 19:14	HKS	GC-14	0.968	B198928	EPA 3546

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.7	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.9	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2416551-05	**Client Sample Name:**	B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 11:24	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	54.2	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	57.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	57.7	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 14:15	OLH	MS-B7	4.950	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	85.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/17/24 08:46	10/17/24 18:47	SR1	GC-V8	1	B199104	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**2.8**	**mg/kg**	**2.0**	**1.4**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**34**	**mg/kg**	**4.0**	**2.0**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	90.6	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 20:36	BUP	GC-19	2.034	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-05 | **Client Sample Name:** B-3 0'-1', 10/14/2024 2:21:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**4.2**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**89**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.32**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.41**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**14**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**6.4**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**11**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**28**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.084**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.48**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.064**	**J**	**1**
Nickel	**12**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**28**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**85**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:10	JEH	ICP5	0.980	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:39	TMT	CETAC3	0.992	B199119	EPA 7471A

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.020	0.0078	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.020	0.0052	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.020	0.010	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	56.7	%	40 - 120 (LCL - UCL)		EPA-8082A		A10	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 19:25	HKS	GC-14	1.961	B198928	EPA 3546

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.4	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.4	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2416551-06	**Client Sample Name:**	B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 15:44	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	57.2	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	56.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	55.9	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 14:39	OLH	MS-B7	5.017	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/19/24 04:24	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**4.5**	**mg/kg**	**2.0**	**1.4**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**80**	**mg/kg**	**4.0**	**2.0**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	79.7	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 17:04	BUP	GC-19	1.967	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-06 | **Client Sample Name:** B-3 1'-2', 10/14/2024 2:22:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**5.7**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**200**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.36**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**1.2**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**		**1**
Chromium	**22**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**6.5**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**18**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**190**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.17**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.017**		**2**
Molybdenum	**0.55**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.061**	**J**	**1**
Nickel	**15**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	**0.11**	**mg/kg**	**0.50**	**0.067**	**EPA-6010B**	**ND**	**J**	**1**
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**32**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**240**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:12	JEH	ICP5	0.943	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:41	TMT	CETAC3	0.962	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.050	0.020	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.050	0.022	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.050	0.019	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.050	0.018	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.050	0.019	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.050	0.012	EPA-8082A	ND	A10	1
PCB-1260	**0.022**	**mg/kg**	**0.050**	**0.013**	**EPA-8082A**	**ND**	**J,A10**	**1**
Total PCB's (Summation)	ND	mg/kg	0.050	0.025	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	41.7	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 20:00	HKS	GC-14	4.747	B198928	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	94.5	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	84.2	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 16:07	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
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Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.15	0.020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.15	0.019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.15	0.020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.15	0.018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.15	0.020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.15	0.036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.15	0.026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.15	0.027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.15	0.016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	62.3	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	49.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	58.1	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 22:19	OLH	MS-B7	49.342	B198970	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	82.5	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/20/24 11:36	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**520**	**mg/kg**	**20**	**14**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**3600**	**mg/kg**	**40**	**20**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	0	%	40 - 130 (LCL - UCL)		EPA-8015B		A17	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 21:46	BUP	GC-19	19.802	B198922	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-07 | **Client Sample Name:** B-5 0'-1', 10/14/2024 1:18:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**9.3**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**100**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.38**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.41**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**15**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**6.7**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**12**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**18**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.033**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.70**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.061**	**J**	**1**
Nickel	**17**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**37**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**50**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:14	JEH	ICP5	0.943	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:42	TMT	CETAC3	1.008	B199119	EPA 7471A

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.020	0.0078	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.020	0.0052	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.020	0.010	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	53.3	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 20:11	HKS	GC-14	1.961	B198928	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.8	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 16:31	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	60.7	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	59.3	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	62.9	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 15:04	OLH	MS-B7	4.983	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:57	10/19/24 05:38	SR1	GC-V8	1	B199273	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**13**	**mg/kg**	**1.0**	**0.70**	**EPA-8015B**	**ND**	**A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**97**	**mg/kg**	**2.0**	**0.98**	**EPA-8015B**	**ND**	**A57**	**1**
Tetracosane (Surrogate)	91.9	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 17:57	BUP	GC-19	1.003	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-08 | **Client Sample Name:** B-5 1'-2', 10/14/2024 1:23:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**13**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**110**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.37**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.21**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**10**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**4.4**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**8.6**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**3.8**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	ND	mg/kg	0.16	0.016	EPA-7471A	0.017		2
Molybdenum	**0.65**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.062**	**J**	**1**
Nickel	**8.0**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**35**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**34**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:16	JEH	ICP5	0.952	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:44	TMT	CETAC3	0.962	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.020	0.0078	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.020	0.0052	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.020	0.010	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	50.0	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 20:22	HKS	GC-14	1.887	B198928	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2416551-09	**Client Sample Name:**	B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 16:54	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.030	0.0040	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.030	0.0038	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.030	0.0041	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.030	0.0037	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.030	0.0040	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.030	0.0071	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.030	0.0053	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.030	0.0054	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	79.5	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	64.9	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	68.5	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 16:17	OLH	MS-B7	10.067	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	97.5	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:57	10/19/24 06:02	SR1	GC-V8	1	B199273	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**11**	**mg/kg**	**5.0**	**3.5**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**190**	**mg/kg**	**10**	**4.9**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	81.9	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 22:21	BUP	GC-19	5.017	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-09 | **Client Sample Name:** B-6 0'-1', 10/14/2024 1:28:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**4.0**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**82**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.24**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.64**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**		**1**
Chromium	**12**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**5.0**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**9.2**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**23**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.039**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.017**	**J**	**2**
Molybdenum	**0.42**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.065**	**J**	**1**
Nickel	**11**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**27**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**100**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:18	JEH	ICP5	1	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:48	TMT	CETAC3	0.977	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.050	0.020	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.050	0.022	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.050	0.019	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.050	0.018	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.050	0.019	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.050	0.012	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.050	0.013	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.050	0.025	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	41.7	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 20:34	HKS	GC-14	4.777	B198928	EPA 3546

DCN = Data Continuation Number

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ENVIRONMENTAL SCIENCES

Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.1	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.0	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 17:18	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.30	0.040	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.30	0.038	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.30	0.041	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.30	0.037	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.30	0.040	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.30	0.071	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.30	0.053	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.30	0.054	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.30	0.033	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	58.7	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	55.1	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	69.1	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 22:42	OLH	MS-B7	98.361	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/19/24 06:27	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**19**	**mg/kg**	**5.0**	**3.5**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**440**	**mg/kg**	**10**	**4.9**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	70.6	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 22:38	BUP	GC-19	4.934	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-10 | **Client Sample Name:** B-6 1'-2', 10/14/2024 1:31:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**4.0**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**82**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.23**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.27**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**12**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**4.4**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**9.7**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**26**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.097**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.017**	**J**	**2**
Molybdenum	**0.30**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.065**	**J**	**1**
Nickel	**12**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**25**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**59**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:20	JEH	ICP5	1	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:49	TMT	CETAC3	0.962	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.020	0.0078	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.020	0.0052	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.020	0.010	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	40.0	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 20:45	HKS	GC-14	1.974	B198928	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 17:41	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.060	0.0080	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.060	0.0076	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.060	0.0082	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.060	0.0074	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.060	0.0080	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.060	0.014	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.060	0.011	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.060	0.011	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.060	0.0066	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	73.6	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	58.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	63.1	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 21:55	OLH	MS-B7	20	B198970	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	85.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/18/24 14:55	10/19/24 06:52	SR1	GC-V8	1	B199109	EPA 5030 Soil GC

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**160**	**mg/kg**	**10**	**7.0**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**1400**	**mg/kg**	**20**	**9.8**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	109	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 23:14	BUP	GC-19	10.135	B198922	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-11 | **Client Sample Name:** B-7 0'-1', 10/14/2024 2:34:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**4.1**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**71**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.28**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.23**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**13**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**5.5**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**12**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**20**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.086**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.37**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.060**	**J**	**1**
Nickel	**12**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**27**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**54**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:26	JEH	ICP5	0.917	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:51	TMT	CETAC3	0.992	B199119	EPA 7471A

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.020	0.0078	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.020	0.0052	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.020	0.010	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	46.7	%	40 - 120 (LCL - UCL)		EPA-8082A			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 20:57	HKS	GC-14	1.935	B198928	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.0	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 18:04	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.030	0.0040	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.030	0.0038	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.030	0.0041	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.030	0.0037	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.030	0.0040	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.030	0.0071	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.030	0.0053	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.030	0.0054	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.030	0.0033	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	63.0	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	57.1	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	60.8	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 16:41	OLH	MS-B7	10.101	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/17/24 08:46	10/19/24 07:16	SR1	GC-V8	1	B199104	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**33**	**mg/kg**	**5.0**	**3.5**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**230**	**mg/kg**	**10**	**4.9**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	70.3	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/18/24 23:49	BUP	GC-19	4.934	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-12 | **Client Sample Name:** B-7 1'-2', 10/14/2024 2:36:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**5.4**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**66**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.27**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.21**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**13**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**5.5**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**8.8**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**5.7**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.088**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.017**	**J**	**2**
Molybdenum	**0.42**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.063**	**J**	**1**
Nickel	**12**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**27**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**40**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:28	JEH	ICP5	0.971	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:56	TMT	CETAC3	0.962	B199119	EPA 7471A

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.010	0.0039	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.010	0.0043	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	0.010	0.0035	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	0.010	0.0038	EPA-8082A	ND		1
PCB-1254	ND	mg/kg	0.010	0.0025	EPA-8082A	ND		1
PCB-1260	**0.011**	**mg/kg**	**0.010**	**0.0026**	**EPA-8082A**	**ND**		**1**
Total PCB's (Summation)	**0.011**	**mg/kg**	**0.010**	**0.0050**	**EPA-8082A**	**ND**		**1**
Decachlorobiphenyl (Surrogate)	205	%	40 - 120 (LCL - UCL)		EPA-8082A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 21:08	HKS	GC-14	0.993	B198928	EPA 3546

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.8	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.8	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2416551-13	**Client Sample Name:**	B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 18:28	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	58.6	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	53.7	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	55.8	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 15:28	OLH	MS-B7	5.068	B198970	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/17/24 08:46	10/19/24 10:57	SR1	GC-V8	1	B199104	EPA 5030 Soil GC

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**2.7**	**mg/kg**	**1.0**	**0.70**	**EPA-8015B**	**ND**	**A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**30**	**mg/kg**	**2.0**	**0.98**	**EPA-8015B**	**ND**	**A57**	**1**
Tetracosane (Surrogate)	88.3	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/19/24 00:07	BUP	GC-19	1.007	B198922	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-13 | **Client Sample Name:** B-8 0'-1', 10/14/2024 1:53:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**5.5**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**100**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.47**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.43**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**23**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**11**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**17**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**17**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.12**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.56**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.061**	**J**	**1**
Nickel	**22**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	**0.18**	**mg/kg**	**0.50**	**0.067**	**EPA-6010B**	**ND**	**J**	**1**
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**38**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**63**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:29	JEH	ICP5	0.935	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:58	TMT	CETAC3	1.008	B199119	EPA 7471A

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
PCB-1016	ND	mg/kg	0.020	0.0078	EPA-8082A	ND	A10	1
PCB-1221	ND	mg/kg	0.020	0.0086	EPA-8082A	ND	A10	1
PCB-1232	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1242	ND	mg/kg	0.020	0.0070	EPA-8082A	ND	A10	1
PCB-1248	ND	mg/kg	0.020	0.0076	EPA-8082A	ND	A10	1
PCB-1254	ND	mg/kg	0.020	0.0050	EPA-8082A	ND	A10	1
PCB-1260	ND	mg/kg	0.020	0.0052	EPA-8082A	ND	A10	1
Total PCB's (Summation)	ND	mg/kg	0.020	0.010	EPA-8082A	ND	A10	1
Decachlorobiphenyl (Surrogate)	147	%	40 - 120 (LCL - UCL)		EPA-8082A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8082A	10/15/24 20:40	10/18/24 21:20	HKS	GC-14	1.911	B198928	EPA 3546

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Bromobenzene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
Bromochloromethane	ND	mg/kg	0.0050	0.00081	EPA-8260B	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Bromoform	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Bromomethane	ND	mg/kg	0.0050	0.0017	EPA-8260B	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	0.00076	EPA-8260B	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	0.00085	EPA-8260B	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	0.00078	EPA-8260B	ND		1
Chlorobenzene	ND	mg/kg	0.0050	0.00077	EPA-8260B	ND		1
Chloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
Chloroform	ND	mg/kg	0.0050	0.00090	EPA-8260B	ND		1
Chloromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	0.00087	EPA-8260B	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	0.00070	EPA-8260B	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.00096	EPA-8260B	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.00082	EPA-8260B	ND		1
Dibromomethane	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.00079	EPA-8260B	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.00064	EPA-8260B	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00073	EPA-8260B	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.00054	EPA-8260B	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0037	EPA-8260B	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00058	EPA-8260B	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Ethylbenzene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Methylene chloride	ND	mg/kg	0.010	0.0011	EPA-8260B	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00056	EPA-8260B	ND		1
Naphthalene	ND	mg/kg	0.0050	0.00099	EPA-8260B	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	0.00071	EPA-8260B	ND		1
Styrene	ND	mg/kg	0.0050	0.00062	EPA-8260B	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00095	EPA-8260B	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.00084	EPA-8260B	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	0.00097	EPA-8260B	ND		1
Toluene	ND	mg/kg	0.0050	0.00069	EPA-8260B	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.00067	EPA-8260B	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00094	EPA-8260B	ND		1
Trichloroethene	ND	mg/kg	0.0050	0.00074	EPA-8260B	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0019	EPA-8260B	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0010	EPA-8260B	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.00080	EPA-8260B	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.00066	EPA-8260B	ND		1
Vinyl chloride	ND	mg/kg	0.0050	0.00059	EPA-8260B	ND		1
Total Xylenes	ND	mg/kg	0.010	0.0025	EPA-8260B	ND		1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0015	EPA-8260B	ND		1
o-Xylene	ND	mg/kg	0.0050	0.00093	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.2	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-8260B	10/15/24 07:46	10/15/24 18:52	EAB	MS-V17	1	B198895	EPA 5030 Soil MS

DCN = Data Continuation Number

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acenaphthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Acenaphthylene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[a]anthracene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[b]fluoranthene	ND	mg/kg	0.015	0.0019	EPA-8270C-SIM	ND	A10	1
Benzo[k]fluoranthene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Benzo[a]pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Benzo[g,h,i]perylene	ND	mg/kg	0.015	0.0018	EPA-8270C-SIM	ND	A10	1
Chrysene	ND	mg/kg	0.015	0.0020	EPA-8270C-SIM	ND	A10	1
Dibenzo[a,h]anthracene	ND	mg/kg	0.015	0.0036	EPA-8270C-SIM	ND	A10	1
Fluoranthene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Fluorene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.015	0.0026	EPA-8270C-SIM	ND	A10	1
Naphthalene	ND	mg/kg	0.015	0.0027	EPA-8270C-SIM	ND	A10	1
Phenanthrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Pyrene	ND	mg/kg	0.015	0.0016	EPA-8270C-SIM	ND	A10	1
Nitrobenzene-d5 (Surrogate)	62.8	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	56.4	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	58.1	%	30 - 130 (LCL - UCL)		EPA-8270C-SIM			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C-SIM	10/16/24 20:40	10/18/24 15:53	OLH	MS-B7	4.967	B198970	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	0.42	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	75.0	%	70 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/17/24 08:46	10/19/24 11:22	SR1	GC-V8	1	B199104	EPA 5030 Soil GC

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
TPH - Diesel Range Organics (C12 - C22)	**4.8**	**mg/kg**	**2.0**	**1.4**	**EPA-8015B**	**ND**	**A10,A52**	**1**
TPH - Oil Range Organics (C23 - C32)	**59**	**mg/kg**	**4.0**	**2.0**	**EPA-8015B**	**ND**	**A10,A57**	**1**
Tetracosane (Surrogate)	76.7	%	40 - 130 (LCL - UCL)		EPA-8015B			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8015B	10/14/24 20:25	10/19/24 00:24	BUP	GC-19	2.034	B198922	EPA 3546

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Pace Sample ID: 2416551-14 | **Client Sample Name:** B-8 1'-2', 10/14/2024 1:54:00PM, Isabel Ramos

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	ND		1
Arsenic	**4.2**	**mg/kg**	**1.0**	**0.40**	**EPA-6010B**	**ND**		**1**
Barium	**74**	**mg/kg**	**0.50**	**0.18**	**EPA-6010B**	**ND**		**1**
Beryllium	**0.29**	**mg/kg**	**0.50**	**0.047**	**EPA-6010B**	**ND**	**J**	**1**
Cadmium	**0.25**	**mg/kg**	**0.50**	**0.052**	**EPA-6010B**	**ND**	**J**	**1**
Chromium	**17**	**mg/kg**	**0.50**	**0.050**	**EPA-6010B**	**ND**		**1**
Cobalt	**6.4**	**mg/kg**	**2.5**	**0.098**	**EPA-6010B**	**ND**		**1**
Copper	**12**	**mg/kg**	**1.0**	**0.050**	**EPA-6010B**	**ND**		**1**
Lead	**7.6**	**mg/kg**	**2.5**	**0.41**	**EPA-6010B**	**ND**		**1**
Mercury	**0.080**	**mg/kg**	**0.16**	**0.016**	**EPA-7471A**	**0.018**	**J**	**2**
Molybdenum	**0.42**	**mg/kg**	**2.5**	**0.050**	**EPA-6010B**	**0.064**	**J**	**1**
Nickel	**12**	**mg/kg**	**0.50**	**0.15**	**EPA-6010B**	**ND**		**1**
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	0.067	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	ND		1
Vanadium	**33**	**mg/kg**	**0.50**	**0.11**	**EPA-6010B**	**ND**		**1**
Zinc	**42**	**mg/kg**	**2.5**	**0.087**	**EPA-6010B**	**ND**		**1**

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	10/16/24 07:20	10/16/24 18:31	JEH	ICP5	0.980	B199000	EPA 3050B
2	EPA-7471A	10/17/24 09:50	10/17/24 13:59	TMT	CETAC3	0.992	B199119	EPA 7471A

DCN = Data Continuation Number

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B198928							
PCB-1016	B198928-BLK1	ND	mg/kg	0.010	0.0039		1
PCB-1221	B198928-BLK1	ND	mg/kg	0.010	0.0043		1
PCB-1232	B198928-BLK1	ND	mg/kg	0.010	0.0038		1
PCB-1242	B198928-BLK1	ND	mg/kg	0.010	0.0035		1
PCB-1248	B198928-BLK1	ND	mg/kg	0.010	0.0038		1
PCB-1254	B198928-BLK1	ND	mg/kg	0.010	0.0025		1
PCB-1260	B198928-BLK1	ND	mg/kg	0.010	0.0026		1
Total PCB's (Summation)	B198928-BLK1	ND	mg/kg	0.010	0.0050		1
Decachlorobiphenyl (Surrogate)	**B198928-BLK1**	**98.3**	%	**40 - 120 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198928-BLK1	PB	EPA-8082A	10/15/24	10/18/24 17:40	HKS	GC-14	0.987

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B198928											
PCB-1016	B198928-BS1	LCS	0.13377	0.16234	mg/kg	82.4		60 - 120			1
PCB-1260	B198928-BS1	LCS	0.13636	0.16234	mg/kg	84.0		60 - 120			1
Decachlorobiphenyl (Surrogate)	B198928-BS1	LCS	0.031818	0.038961	mg/kg	81.7		40 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198928-BS1	LCS	EPA-8082A	10/15/24	10/18/24 17:52	HKS	GC-14	0.974

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Universal Engineering Sciences 3600 Pegasus Drive Bakersfield, CA 93308	**Reported:** 10/25/2024 12:18 Project: N. Chester Ave & Decatur St. Phase II Project Number: 4540.2400028.0000 Project Manager: Isabel Ramos

PCB Analysis (EPA Method 8082)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B198928	Used client sample: Y - Description: B-7 1'-2', 10/14/2024 14:36											
PCB-1016	MS	**2416551-12**	**ND**	**0.079470**	**0.16556**	**mg/kg**		**48.0**		**60 - 120**	**Q03**	1
	MSD	**2416551-12**	**ND**	**0.077124**	**0.16340**	**mg/kg**	**3.0**	**47.2**	**30**	**60 - 120**	**Q03**	2
PCB-1260	MS	**2416551-12**	**ND**	**0.066225**	**0.16556**	**mg/kg**		**40.0**		**60 - 120**	**Q03**	1
	MSD	**2416551-12**	**ND**	**0.061438**	**0.16340**	**mg/kg**	**7.5**	**37.6**	**30**	**60 - 120**	**Q03**	2
Decachlorobiphenyl (Surrogate)	MS	2416551-12	ND	0.017219	0.039735	mg/kg		43.3		40 - 120		1
	MSD	2416551-12	ND	0.016993	0.039216	mg/kg	1.3	43.3		40 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198928-MS1	MS	EPA-8082A	10/15/24	10/18/24 18:03	HKS	GC-14	1.987
2	B198928-MSD1	MSD	EPA-8082A	10/15/24	10/18/24 18:15	HKS	GC-14	1.961

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Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B198895							
Benzene	B198895-BLK1	ND	mg/kg	0.0050	0.00067		1
Bromobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00087		1
Bromochloromethane	B198895-BLK1	ND	mg/kg	0.0050	0.00081		1
Bromodichloromethane	B198895-BLK1	ND	mg/kg	0.0050	0.00078		1
Bromoform	B198895-BLK1	ND	mg/kg	0.0050	0.00070		1
Bromomethane	B198895-BLK1	ND	mg/kg	0.0050	0.0017		1
n-Butylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00076		1
sec-Butylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00071		1
tert-Butylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00085		1
Carbon tetrachloride	B198895-BLK1	ND	mg/kg	0.0050	0.00078		1
Chlorobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00077		1
Chloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.0011		1
Chloroform	B198895-BLK1	ND	mg/kg	0.0050	0.00090		1
Chloromethane	B198895-BLK1	ND	mg/kg	0.0050	0.0011		1
2-Chlorotoluene	B198895-BLK1	ND	mg/kg	0.0050	0.00087		1
4-Chlorotoluene	B198895-BLK1	ND	mg/kg	0.0050	0.00070		1
Dibromochloromethane	B198895-BLK1	ND	mg/kg	0.0050	0.00080		1
1,2-Dibromo-3-chloropropane	B198895-BLK1	ND	mg/kg	0.0050	0.00096		1
1,2-Dibromoethane	B198895-BLK1	ND	mg/kg	0.0050	0.00082		1
Dibromomethane	B198895-BLK1	ND	mg/kg	0.0050	0.0014		1
1,2-Dichlorobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00079		1
1,3-Dichlorobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00073		1
1,4-Dichlorobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00073		1
Dichlorodifluoromethane	B198895-BLK1	ND	mg/kg	0.0050	0.00079		1
1,1-Dichloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.00064		1
1,2-Dichloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.00073		1
1,1-Dichloroethene	B198895-BLK1	ND	mg/kg	0.0050	0.0011		1
cis-1,2-Dichloroethene	B198895-BLK1	ND	mg/kg	0.0050	0.00054		1
trans-1,2-Dichloroethene	B198895-BLK1	ND	mg/kg	0.0050	0.0037		1
1,2-Dichloropropane	B198895-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3-Dichloropropane	B198895-BLK1	ND	mg/kg	0.0050	0.00067		1
2,2-Dichloropropane	B198895-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1-Dichloropropene	B198895-BLK1	ND	mg/kg	0.0050	0.00067		1
cis-1,3-Dichloropropene	B198895-BLK1	ND	mg/kg	0.0050	0.00058		1

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Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B198895							
trans-1,3-Dichloropropene	B198895-BLK1	ND	mg/kg	0.0050	0.00066		1
Ethylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00069		1
Hexachlorobutadiene	B198895-BLK1	ND	mg/kg	0.0050	0.00067		1
Isopropylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00080		1
p-Isopropyltoluene	B198895-BLK1	ND	mg/kg	0.0050	0.00059		1
Methylene chloride	B198895-BLK1	ND	mg/kg	0.010	0.0011		1
Methyl t-butyl ether	B198895-BLK1	ND	mg/kg	0.0050	0.00056		1
Naphthalene	B198895-BLK1	ND	mg/kg	0.0050	0.00099		1
n-Propylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00071		1
Styrene	B198895-BLK1	ND	mg/kg	0.0050	0.00062		1
1,1,1,2-Tetrachloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.00095		1
1,1,2,2-Tetrachloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.00084		1
Tetrachloroethene	B198895-BLK1	ND	mg/kg	0.0050	0.00097		1
Toluene	B198895-BLK1	ND	mg/kg	0.0050	0.00069		1
1,2,3-Trichlorobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,4-Trichlorobenzene	B198895-BLK1	ND	mg/kg	0.0050	0.0014		1
1,1,1-Trichloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.00067		1
1,1,2-Trichloroethane	B198895-BLK1	ND	mg/kg	0.0050	0.00094		1
Trichloroethene	B198895-BLK1	ND	mg/kg	0.0050	0.00074		1
Trichlorofluoromethane	B198895-BLK1	ND	mg/kg	0.0050	0.0015		1
1,2,3-Trichloropropane	B198895-BLK1	ND	mg/kg	0.0050	0.0019		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B198895-BLK1	ND	mg/kg	0.0050	0.0010		1
1,2,4-Trimethylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00080		1
1,3,5-Trimethylbenzene	B198895-BLK1	ND	mg/kg	0.0050	0.00066		1
Vinyl chloride	B198895-BLK1	ND	mg/kg	0.0050	0.00059		1
Total Xylenes	B198895-BLK1	ND	mg/kg	0.010	0.0025		1
p- & m-Xylenes	B198895-BLK1	ND	mg/kg	0.0050	0.0015		1
o-Xylene	B198895-BLK1	ND	mg/kg	0.0050	0.00093		1
1,2-Dichloroethane-d4 (Surrogate)	**B198895-BLK1**	**108**	%	**70 - 121 (LCL - UCL)**			1
Toluene-d8 (Surrogate)	**B198895-BLK1**	**98.1**	%	**81 - 117 (LCL - UCL)**			1
4-Bromofluorobenzene (Surrogate)	**B198895-BLK1**	**99.2**	%	**74 - 121 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198895-BLK1	PB	EPA-8260B	10/15/24	10/15/24 12:11	EAB	MS-V17	1

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B198895											
Benzene	B198895-BS1	LCS	0.11201	0.12500	mg/kg	89.6		70 - 130			1
Bromodichloromethane	B198895-BS1	LCS	0.11035	0.12500	mg/kg	88.3		70 - 130			1
Chlorobenzene	B198895-BS1	LCS	0.11984	0.12500	mg/kg	95.9		70 - 130			1
Chloroethane	B198895-BS1	LCS	0.10408	0.12500	mg/kg	83.3		70 - 130			1
1,4-Dichlorobenzene	B198895-BS1	LCS	0.12112	0.12500	mg/kg	96.9		70 - 130			1
1,1-Dichloroethane	B198895-BS1	LCS	0.11004	0.12500	mg/kg	88.0		70 - 130			1
1,1-Dichloroethene	B198895-BS1	LCS	0.10972	0.12500	mg/kg	87.8		70 - 130			1
Toluene	B198895-BS1	LCS	0.11653	0.12500	mg/kg	93.2		70 - 130			1
Trichloroethene	B198895-BS1	LCS	0.11646	0.12500	mg/kg	93.2		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B198895-BS1	LCS	0.051810	0.050000	mg/kg	104		70 - 121			1
Toluene-d8 (Surrogate)	B198895-BS1	LCS	0.050080	0.050000	mg/kg	100		81 - 117			1
4-Bromofluorobenzene (Surrogate)	B198895-BS1	LCS	0.051350	0.050000	mg/kg	103		74 - 121			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198895-BS1	LCS	EPA-8260B	10/15/24	10/15/24 12:35	EAB	MS-V17	1

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Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B198895	Used client sample: Y - Description: B-3 0'-1', 10/14/2024 14:21											
Benzene	MS	**2416551-05**	**ND**	**0.10529**	**0.12500**	**mg/kg**		**84.2**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.070590**	**0.12500**	**mg/kg**	**39.5**	**56.5**	**20**	**70 - 130**	**Q02,Q03**	2
Bromodichloromethane	MS	**2416551-05**	**ND**	**0.10744**	**0.12500**	**mg/kg**		**86.0**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.069860**	**0.12500**	**mg/kg**	**42.4**	**55.9**	**20**	**70 - 130**	**Q02,Q03**	2
Chlorobenzene	MS	**2416551-05**	**ND**	**0.10773**	**0.12500**	**mg/kg**		**86.2**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.051130**	**0.12500**	**mg/kg**	**71.3**	**40.9**	**20**	**70 - 130**	**Q02,Q03**	2
Chloroethane	MS	**2416551-05**	**ND**	**0.095870**	**0.12500**	**mg/kg**		**76.7**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.073600**	**0.12500**	**mg/kg**	**26.3**	**58.9**	**20**	**70 - 130**	**Q02,Q03**	2
1,4-Dichlorobenzene	MS	**2416551-05**	**ND**	**0.092540**	**0.12500**	**mg/kg**		**74.0**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.020780**	**0.12500**	**mg/kg**	**127**	**16.6**	**20**	**70 - 130**	**Q02,Q03**	2
1,1-Dichloroethane	MS	**2416551-05**	**ND**	**0.10510**	**0.12500**	**mg/kg**		**84.1**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.075510**	**0.12500**	**mg/kg**	**32.8**	**60.4**	**20**	**70 - 130**	**Q02,Q03**	2
1,1-Dichloroethene	MS	**2416551-05**	**ND**	**0.10181**	**0.12500**	**mg/kg**		**81.4**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.069960**	**0.12500**	**mg/kg**	**37.1**	**56.0**	**20**	**70 - 130**	**Q02,Q03**	2
Toluene	MS	**2416551-05**	**ND**	**0.10457**	**0.12500**	**mg/kg**		**83.7**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.056870**	**0.12500**	**mg/kg**	**59.1**	**45.5**	**20**	**70 - 130**	**Q02,Q03**	2
Trichloroethene	MS	**2416551-05**	**ND**	**0.10286**	**0.12500**	**mg/kg**		**82.3**		**70 - 130**		1
	MSD	**2416551-05**	**ND**	**0.059550**	**0.12500**	**mg/kg**	**53.3**	**47.6**	**20**	**70 - 130**	**Q02,Q03**	2
1,2-Dichloroethane-d4 (Surrogate)	MS	2416551-05	ND	0.054430	0.050000	mg/kg		109		70 - 121		1
	MSD	2416551-05	ND	0.052070	0.050000	mg/kg	4.4	104		70 - 121		2
Toluene-d8 (Surrogate)	MS	2416551-05	ND	0.050220	0.050000	mg/kg		100		81 - 117		1
	MSD	2416551-05	ND	0.049070	0.050000	mg/kg	2.3	98.1		81 - 117		2
4-Bromofluorobenzene (Surrogate)	MS	2416551-05	ND	0.051850	0.050000	mg/kg		104		74 - 121		1
	MSD	2416551-05	ND	0.049490	0.050000	mg/kg	4.7	99.0		74 - 121		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198895-MS1	MS	EPA-8260B	10/15/24	10/15/24 12:58	EAB	MS-V17	1
2	B198895-MSD1	MSD	EPA-8260B	10/15/24	10/15/24 13:22	EAB	MS-V17	1

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Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B198970							
Acenaphthene	B198970-BLK1	ND	mg/kg	0.0030	0.00040		1
Acenaphthylene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Anthracene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Benzo[a]anthracene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Benzo[b]fluoranthene	B198970-BLK1	ND	mg/kg	0.0030	0.00038		1
Benzo[k]fluoranthene	B198970-BLK1	ND	mg/kg	0.0030	0.00041		1
Benzo[a]pyrene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Benzo[g,h,i]perylene	B198970-BLK1	ND	mg/kg	0.0030	0.00037		1
Chrysene	B198970-BLK1	ND	mg/kg	0.0030	0.00040		1
Dibenzo[a,h]anthracene	B198970-BLK1	ND	mg/kg	0.0030	0.00071		1
Fluoranthene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Fluorene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Indeno[1,2,3-cd]pyrene	B198970-BLK1	ND	mg/kg	0.0030	0.00053		1
Naphthalene	B198970-BLK1	ND	mg/kg	0.0030	0.00054		1
Phenanthrene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Pyrene	B198970-BLK1	ND	mg/kg	0.0030	0.00033		1
Nitrobenzene-d5 (Surrogate)	**B198970-BLK1**	**61.7**	%	**30 - 130 (LCL - UCL)**			1
2-Fluorobiphenyl (Surrogate)	**B198970-BLK1**	**71.6**	%	**40 - 130 (LCL - UCL)**			1
p-Terphenyl-d14 (Surrogate)	**B198970-BLK1**	**77.3**	%	**30 - 130 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198970-BLK1	PB	EPA-8270C-SIM	10/16/24	10/18/24 11:02	OLH	MS-B7	0.997

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Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B198970											
Acenaphthene	B198970-BS1	LCS	0.020593	0.033784	mg/kg	61.0		60 - 130			1
Acenaphthylene	B198970-BS1	LCS	0.020304	0.033784	mg/kg	60.1		60 - 130			1
Anthracene	B198970-BS1	LCS	0.022750	0.033784	mg/kg	67.3		60 - 130			1
Benzo[a]anthracene	B198970-BS1	LCS	0.022206	0.033784	mg/kg	65.7		60 - 130			1
Benzo[b]fluoranthene	B198970-BS1	LCS	0.027102	0.033784	mg/kg	80.2		50 - 130			1
Benzo[k]fluoranthene	B198970-BS1	LCS	0.024216	0.033784	mg/kg	71.7		60 - 130			1
Benzo[a]pyrene	B198970-BS1	LCS	0.021889	0.033784	mg/kg	64.8		60 - 130			1
Benzo[g,h,i]perylene	B198970-BS1	LCS	0.022062	0.033784	mg/kg	65.3		50 - 130			1
Chrysene	B198970-BS1	LCS	0.022468	0.033784	mg/kg	66.5		50 - 130			1
Dibenzo[a,h]anthracene	B198970-BS1	LCS	0.023215	0.033784	mg/kg	68.7		50 - 130			1
Fluoranthene	B198970-BS1	LCS	0.021509	0.033784	mg/kg	63.7		60 - 130			1
Fluorene	B198970-BS1	LCS	0.020755	0.033784	mg/kg	61.4		50 - 130			1
Indeno[1,2,3-cd]pyrene	B198970-BS1	LCS	0.021115	0.033784	mg/kg	62.5		50 - 130			1
Naphthalene	B198970-BS1	LCS	0.021873	0.033784	mg/kg	64.7		50 - 130			1
Phenanthrene	B198970-BS1	LCS	0.020468	0.033784	mg/kg	60.6		50 - 130			1
Pyrene	B198970-BS1	LCS	0.022044	0.033784	mg/kg	65.2		50 - 130			1
Nitrobenzene-d5 (Surrogate)	B198970-BS1	LCS	0.021316	0.033784	mg/kg	63.1		30 - 130			1
2-Fluorobiphenyl (Surrogate)	B198970-BS1	LCS	0.022789	0.033784	mg/kg	67.5		40 - 130			1
p-Terphenyl-d14 (Surrogate)	B198970-BS1	LCS	0.021931	0.033784	mg/kg	64.9		30 - 130			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198970-BS1	LCS	EPA-8270C-SIM	10/16/24	10/18/24 11:25	OLH	MS-B7	1.014

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B198970	Used client sample: Y - Description: B-1 0'-1', 10/14/2024 14:11											
Acenaphthene	MS	2416551-01	ND	0.020234	0.033898	mg/kg		59.7		50 - 130		1
	MSD	2416551-01	ND	0.020347	0.033557	mg/kg	0.6	60.6	30	50 - 130		2
Acenaphthylene	MS	2416551-01	ND	0.022480	0.033898	mg/kg		66.3		50 - 130		1
	MSD	2416551-01	ND	0.022854	0.033557	mg/kg	1.7	68.1	30	50 - 130		2
Anthracene	MS	2416551-01	ND	0.025210	0.033898	mg/kg		74.4		50 - 130		1
	MSD	2416551-01	ND	0.024218	0.033557	mg/kg	4.0	72.2	30	50 - 130		2
Benzo[a]anthracene	MS	**2416551-01**	**ND**	**0.073331**	**0.033898**	**mg/kg**		**216**		**50 - 130**	**Q03**	1
	MSD	**2416551-01**	**ND**	**0.070461**	**0.033557**	**mg/kg**	**4.0**	**210**	**30**	**50 - 130**	**Q03**	2
Benzo[b]fluoranthene	MS	**2416551-01**	**0.016792**	**0.077261**	**0.033898**	**mg/kg**		**178**		**40 - 130**	**Q03**	1
	MSD	**2416551-01**	**0.016792**	**0.080275**	**0.033557**	**mg/kg**	**3.8**	**189**	**30**	**40 - 130**	**Q03**	2
Benzo[k]fluoranthene	MS	2416551-01	ND	0.036876	0.033898	mg/kg		109		40 - 130		1
	MSD	2416551-01	ND	0.035002	0.033557	mg/kg	5.2	104	30	40 - 130		2
Benzo[a]pyrene	MS	**2416551-01**	**ND**	**0.059258**	**0.033898**	**mg/kg**		**175**		**40 - 130**	**Q03**	1
	MSD	**2416551-01**	**ND**	**0.058777**	**0.033557**	**mg/kg**	**0.8**	**175**	**30**	**40 - 130**	**Q03**	2
Benzo[g,h,i]perylene	MS	**2416551-01**	**ND**	**0.051269**	**0.033898**	**mg/kg**		**151**		**40 - 130**	**Q03**	1
	MSD	**2416551-01**	**ND**	**0.050963**	**0.033557**	**mg/kg**	**0.6**	**152**	**30**	**40 - 130**	**Q03**	2
Chrysene	MS	**2416551-01**	**0.016389**	**0.079849**	**0.033898**	**mg/kg**		**187**		**40 - 130**	**Q03**	1
	MSD	**2416551-01**	**0.016389**	**0.081428**	**0.033557**	**mg/kg**	**2.0**	**194**	**30**	**40 - 130**	**Q03**	2
Dibenzo[a,h]anthracene	MS	2416551-01	ND	0.028819	0.033898	mg/kg		85.0		40 - 130		1
	MSD	2416551-01	ND	0.027013	0.033557	mg/kg	6.5	80.5	30	40 - 130		2
Fluoranthene	MS	**2416551-01**	**0.017076**	**0.10427**	**0.033898**	**mg/kg**		**257**		**40 - 130**	**Q03**	1
	MSD	**2416551-01**	**0.017076**	**0.10080**	**0.033557**	**mg/kg**	**3.4**	**249**	**30**	**40 - 130**	**Q03**	2
Fluorene	MS	2416551-01	ND	0.021034	0.033898	mg/kg		62.0		40 - 130		1
	MSD	2416551-01	ND	0.021005	0.033557	mg/kg	0.1	62.6	30	40 - 130		2
Indeno[1,2,3-cd]pyrene	MS	**2416551-01**	**ND**	**0.044071**	**0.033898**	**mg/kg**		**130**		**30 - 130**		1
	MSD	**2416551-01**	**ND**	**0.045161**	**0.033557**	**mg/kg**	**2.4**	**135**	**30**	**30 - 130**	**Q03**	2
Naphthalene	MS	2416551-01	ND	0.019792	0.033898	mg/kg		58.4		50 - 130		1
	MSD	2416551-01	ND	0.019752	0.033557	mg/kg	0.2	58.9	30	50 - 130		2
Phenanthrene	MS	2416551-01	ND	0.042812	0.033898	mg/kg		126		40 - 130		1
	MSD	2416551-01	ND	0.040898	0.033557	mg/kg	4.6	122	30	40 - 130		2
Pyrene	MS	**2416551-01**	**0.017394**	**0.098088**	**0.033898**	**mg/kg**		**238**		**40 - 130**	**Q03**	1
	MSD	**2416551-01**	**0.017394**	**0.095810**	**0.033557**	**mg/kg**	**2.3**	**234**	**30**	**40 - 130**	**Q03**	2
Nitrobenzene-d5 (Surrogate)	MS	2416551-01	ND	0.018329	0.033898	mg/kg		54.1		30 - 130		1
	MSD	2416551-01	ND	0.018443	0.033557	mg/kg	0.6	55.0		30 - 130		2
2-Fluorobiphenyl (Surrogate)	MS	2416551-01	ND	0.020007	0.033898	mg/kg		59.0		40 - 130		1
	MSD	2416551-01	ND	0.020149	0.033557	mg/kg	0.7	60.0		40 - 130		2

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B198970	Used client sample: Y - Description: B-1 0'-1', 10/14/2024 14:11											
p-Terphenyl-d14 (Surrogate)	MS	2416551-01	ND	0.020058	0.033898	mg/kg		59.2		30 - 130		1
	MSD	2416551-01	ND	0.019809	0.033557	mg/kg	1.2	59.0		30 - 130		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198970-MS1	MS	EPA-8270C-SIM	10/16/24	10/18/24 12:14	OLH	MS-B7	5.085
2	B198970-MSD1	MSD	EPA-8270C-SIM	10/16/24	10/18/24 12:38	OLH	MS-B7	5.034

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Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B199104							
Gasoline Range Organics (C4 - C12)	B199104-BLK1	ND	mg/kg	1.0	0.42		1
a,a,a-Trifluorotoluene (FID Surrogate)	**B199104-BLK1**	**90.0**	%	**70 - 130 (LCL - UCL)**			1
QC Batch ID: B199109							
Gasoline Range Organics (C4 - C12)	B199109-BLK1	ND	mg/kg	1.0	0.42		2
a,a,a-Trifluorotoluene (FID Surrogate)	**B199109-BLK1**	**95.0**	%	**70 - 130 (LCL - UCL)**			2
QC Batch ID: B199273							
Gasoline Range Organics (C4 - C12)	B199273-BLK1	ND	mg/kg	1.0	0.42		3
a,a,a-Trifluorotoluene (FID Surrogate)	**B199273-BLK1**	**87.5**	%	**70 - 130 (LCL - UCL)**			3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B199104-BLK1	PB	EPA-8015B	10/17/24	10/17/24 17:59	SR1	GC-V8	1
2	B199109-BLK1	PB	EPA-8015B	10/17/24	10/18/24 17:48	SR1	GC-V8	1
3	B199273-BLK1	PB	EPA-8015B	10/18/24	10/19/24 08:30	SR1	GC-V8	1

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B199104											
Gasoline Range Organics (C4 - C12)	B199104-BS1	LCS	5.6690	5.0000	mg/kg	113		85 - 115			1
a,a,a-Trifluorotoluene (FID Surrogate)	B199104-BS1	LCS	0.040000	0.040000	mg/kg	100		70 - 130			1
QC Batch ID: B199109											
Gasoline Range Organics (C4 - C12)	B199109-BS1	LCS	4.4010	5.0000	mg/kg	88.0		85 - 115			2
a,a,a-Trifluorotoluene (FID Surrogate)	B199109-BS1	LCS	0.042000	0.040000	mg/kg	105		70 - 130			2
QC Batch ID: B199273											
Gasoline Range Organics (C4 - C12)	B199273-BS1	LCS	4.9480	5.0000	mg/kg	99.0		85 - 115			3
a,a,a-Trifluorotoluene (FID Surrogate)	B199273-BS1	LCS	0.036000	0.040000	mg/kg	90.0		70 - 130			3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B199104-BS1	LCS	EPA-8015B	10/17/24	10/17/24 18:23	SR1	GC-V8	1
2	B199109-BS1	LCS	EPA-8015B	10/17/24	10/18/24 18:13	SR1	GC-V8	1
3	B199273-BS1	LCS	EPA-8015B	10/18/24	10/22/24 07:19	SR1	GC-V8	1

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Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B199104	Used client sample: Y - Description: B-3 0'-1', 10/14/2024 14:21											
Gasoline Range Organics (C4 - C12)	MS	2416551-05	ND	4.6600	5.0000	mg/kg		93.2		70 - 130		1
	MSD	2416551-05	ND	4.4240	5.0000	mg/kg	5.2	88.5	20	70 - 130		2
a,a,a-Trifluorotoluene (FID Surrogate)	MS	2416551-05	ND	0.045000	0.040000	mg/kg		112		70 - 130		1
	MSD	2416551-05	ND	0.040000	0.040000	mg/kg	11.8	100		70 - 130		2
QC Batch ID: B199109	Used client sample: Y - Description: B-2 0'-1', 10/14/2024 14:00											
Gasoline Range Organics (C4 - C12)	MS	**2416551-03**	**ND**	**3.4850**	**5.0000**	**mg/kg**		**69.7**		**70 - 130**	**Q03**	3
	MSD	**2416551-03**	**ND**	**3.3360**	**5.0000**	**mg/kg**	**4.4**	**66.7**	**20**	**70 - 130**	**Q03**	4
a,a,a-Trifluorotoluene (FID Surrogate)	MS	2416551-03	ND	0.040000	0.040000	mg/kg		100		70 - 130		3
	MSD	2416551-03	ND	0.038000	0.040000	mg/kg	5.1	95.0		70 - 130		4
QC Batch ID: B199273	Used client sample: N											
Gasoline Range Organics (C4 - C12)	MS	**2416501-01**	**ND**	**2.4760**	**5.0000**	**mg/kg**		**49.5**		**70 - 130**	**Q03**	5
	MSD	**2416501-01**	**ND**	**3.7670**	**5.0000**	**mg/kg**	**41.4**	**75.3**	**20**	**70 - 130**	**Q02**	6
a,a,a-Trifluorotoluene (FID Surrogate)	MS	2416501-01	ND	0.040000	0.040000	mg/kg		100		70 - 130		5
	MSD	2416501-01	ND	0.036000	0.040000	mg/kg	10.5	90.0		70 - 130		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B199104-MS1	MS	EPA-8015B	10/17/24	10/17/24 19:12	SR1	GC-V8	1
2	B199104-MSD1	MSD	EPA-8015B	10/17/24	10/17/24 19:36	SR1	GC-V8	1
3	B199109-MS1	MS	EPA-8015B	10/17/24	10/18/24 19:02	SR1	GC-V8	1
4	B199109-MSD1	MSD	EPA-8015B	10/17/24	10/18/24 19:26	SR1	GC-V8	1
5	B199273-MS1	MS	EPA-8015B	10/18/24	10/22/24 07:43	SR1	GC-V8	1
6	B199273-MSD1	MSD	EPA-8015B	10/18/24	10/22/24 12:14	SR1	GC-V8	1

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Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B198922							
TPH - Diesel Range Organics (C12 - C22)	B198922-BLK1	ND	mg/kg	1.0	0.70		1
TPH - Oil Range Organics (C23 - C32)	B198922-BLK1	ND	mg/kg	2.0	0.98		1
Tetracosane (Surrogate)	**B198922-BLK1**	**90.8**	%	**40 - 130 (LCL - UCL)**			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198922-BLK1	PB	EPA-8015B	10/14/24	10/18/24 18:15	BUP	GC-19	0.990

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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B198922											
TPH - Diesel Range Organics (C12 - C22)	B198922-BS1	LCS	12.382	16.892	mg/kg	73.3		58 - 120			1
TPH - Oil Range Organics (C23 - C32)	B198922-BS1	LCS	20.667	33.784	mg/kg	61.2		40 - 130			1
Tetracosane (Surrogate)	B198922-BS1	LCS	0.60084	0.67568	mg/kg	88.9		40 - 130			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198922-BS1	LCS	EPA-8015B	10/14/24	10/18/24 18:33	BUP	GC-19	1.014

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B198922	Used client sample: Y - Description: B-5 1'-2', 10/14/2024 13:23											
TPH - Diesel Range Organics (C12 - C22)	MS	**2416551-08**	**13.203**	**18.264**	**16.556**	**mg/kg**		**30.6**		**49 - 120**	**Q03**	1
	MSD	**2416551-08**	**13.203**	**22.337**	**16.393**	**mg/kg**	**20.1**	**55.7**	**30**	**49 - 120**		2
TPH - Oil Range Organics (C23 - C32)	MS	**2416551-08**	**97.294**	**89.767**	**33.113**	**mg/kg**		**-22.7**		**40 - 130**	**Q03**	1
	MSD	**2416551-08**	**97.294**	**109.33**	**32.787**	**mg/kg**	**19.7**	**36.7**	**30**	**40 - 130**	**Q03**	2
Tetracosane (Surrogate)	MS	2416551-08	ND	0.58858	0.66225	mg/kg		88.9		40 - 130		1
	MSD	2416551-08	ND	0.58607	0.65574	mg/kg	0.4	89.4		40 - 130		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B198922-MS1	MS	EPA-8015B	10/14/24	10/18/24 18:50	BUP	GC-19	0.993
2	B198922-MSD1	MSD	EPA-8015B	10/14/24	10/18/24 19:08	BUP	GC-19	0.984

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Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B199000							
Antimony	B199000-BLK1	ND	mg/kg	5.0	0.33		1
Arsenic	B199000-BLK1	ND	mg/kg	1.0	0.40		1
Barium	B199000-BLK1	ND	mg/kg	0.50	0.18		1
Beryllium	B199000-BLK1	ND	mg/kg	0.50	0.047		1
Cadmium	B199000-BLK1	ND	mg/kg	0.50	0.052		1
Chromium	B199000-BLK1	ND	mg/kg	0.50	0.050		1
Cobalt	B199000-BLK1	ND	mg/kg	2.5	0.098		1
Copper	B199000-BLK1	ND	mg/kg	1.0	0.050		1
Lead	B199000-BLK1	ND	mg/kg	2.5	0.41		1
Molybdenum	**B199000-BLK1**	**0.065000**	**mg/kg**	**2.5**	**0.050**	**J**	1
Nickel	B199000-BLK1	ND	mg/kg	0.50	0.15		1
Selenium	B199000-BLK1	ND	mg/kg	1.0	0.98		1
Silver	B199000-BLK1	ND	mg/kg	0.50	0.067		1
Thallium	B199000-BLK1	ND	mg/kg	5.0	0.64		1
Vanadium	B199000-BLK1	ND	mg/kg	0.50	0.11		1
Zinc	B199000-BLK1	ND	mg/kg	2.5	0.087		1
QC Batch ID: B199119							
Mercury	**B199119-BLK1**	**0.017760**	**mg/kg**	**0.16**	**0.016**	**J**	2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B199000-BLK1	PB	EPA-6010B	10/16/24	10/16/24 17:44	JEH	ICP5	1
2	B199119-BLK1	PB	EPA-7471A	10/17/24	10/17/24 12:55	TMT	CETAC3	1

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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals	Run #
QC Batch ID: B199000											
Antimony	B199000-BS1	LCS	97.205	100.00	mg/kg	97.2		75 - 125			1
Arsenic	B199000-BS1	LCS	20.480	20.000	mg/kg	102		75 - 125			1
Barium	B199000-BS1	LCS	109.22	100.00	mg/kg	109		75 - 125			1
Beryllium	B199000-BS1	LCS	10.619	10.000	mg/kg	106		75 - 125			1
Cadmium	B199000-BS1	LCS	11.075	10.000	mg/kg	111		75 - 125			1
Chromium	B199000-BS1	LCS	107.42	100.00	mg/kg	107		75 - 125			1
Cobalt	B199000-BS1	LCS	109.82	100.00	mg/kg	110		75 - 125			1
Copper	B199000-BS1	LCS	101.48	100.00	mg/kg	101		75 - 125			1
Lead	B199000-BS1	LCS	111.88	100.00	mg/kg	112		75 - 125			1
Molybdenum	B199000-BS1	LCS	107.00	100.00	mg/kg	107		75 - 125			1
Nickel	B199000-BS1	LCS	109.54	100.00	mg/kg	110		75 - 125			1
Selenium	B199000-BS1	LCS	19.465	20.000	mg/kg	97.3		75 - 125			1
Silver	B199000-BS1	LCS	10.220	10.000	mg/kg	102		75 - 125			1
Thallium	B199000-BS1	LCS	107.89	100.00	mg/kg	108		75 - 125			1
Vanadium	B199000-BS1	LCS	106.68	100.00	mg/kg	107		75 - 125			1
Zinc	B199000-BS1	LCS	107.08	100.00	mg/kg	107		75 - 125			1
QC Batch ID: B199119											
Mercury	B199119-BS1	LCS	0.84320	0.80000	mg/kg	105		80 - 120			2
	B199119-BSD1	LCSD	0.84640	0.80000	mg/kg	106	0.4	80 - 120	20		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B199000-BS1	LCS	EPA-6010B	10/16/24	10/16/24 17:46	JEH	ICP5	1
2	B199119-BS1	LCS	EPA-7471A	10/17/24	10/17/24 12:58	TMT	CETAC3	1
3	B199119-BSD1	LCSD	EPA-7471A	10/17/24	10/17/24 14:06	TMT	CETAC3	1

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Universal Engineering Sciences
3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B199000	Used client sample: Y - Description: B-1 0'-1', 10/14/2024 14:11											
Antimony	DUP	2416551-01	ND	ND		mg/kg			20			1
	MS	2416551-01	ND	25.735	100.00	mg/kg		25.7		16 - 119		2
	MSD	2416551-01	ND	25.425	100.00	mg/kg	1.2	25.4	20	16 - 119		3
Arsenic	DUP	2416551-01	5.1200	4.8550		mg/kg	5.3		20			1
	MS	2416551-01	5.1200	25.090	20.000	mg/kg		99.8		75 - 125		2
	MSD	2416551-01	5.1200	24.395	20.000	mg/kg	2.8	96.4	20	75 - 125		3
Barium	DUP	2416551-01	105.98	100.78		mg/kg	5.0		20			1
	MS	2416551-01	105.98	228.88	100.00	mg/kg		123		75 - 125		2
	MSD	2416551-01	105.98	204.71	100.00	mg/kg	11.1	98.7	20	75 - 125		3
Beryllium	DUP	2416551-01	0.44025	0.43305		mg/kg	1.6		20		J	1
	MS	2416551-01	0.44025	10.787	10.000	mg/kg		103		75 - 125		2
	MSD	2416551-01	0.44025	10.648	10.000	mg/kg	1.3	102	20	75 - 125		3
Cadmium	DUP	2416551-01	0.35500	0.34500		mg/kg	2.9		20		J	1
	MS	2416551-01	0.35500	10.745	10.000	mg/kg		104		75 - 125		2
	MSD	2416551-01	0.35500	10.595	10.000	mg/kg	1.4	102	20	75 - 125		3
Chromium	DUP	2416551-01	19.575	19.285		mg/kg	1.5		20			1
	MS	2416551-01	19.575	124.92	100.00	mg/kg		105		75 - 125		2
	MSD	2416551-01	19.575	123.00	100.00	mg/kg	1.5	103	20	75 - 125		3
Cobalt	DUP	2416551-01	7.7900	7.5250		mg/kg	3.5		20			1
	MS	2416551-01	7.7900	112.09	100.00	mg/kg		104		75 - 125		2
	MSD	2416551-01	7.7900	108.88	100.00	mg/kg	2.9	101	20	75 - 125		3
Copper	DUP	2416551-01	15.530	15.175		mg/kg	2.3		20			1
	MS	2416551-01	15.530	121.86	100.00	mg/kg		106		75 - 125		2
	MSD	2416551-01	15.530	118.49	100.00	mg/kg	2.8	103	20	75 - 125		3
Lead	DUP	2416551-01	27.465	29.145		mg/kg	5.9		20			1
	MS	2416551-01	27.465	132.18	100.00	mg/kg		105		75 - 125		2
	MSD	2416551-01	27.465	134.70	100.00	mg/kg	1.9	107	20	75 - 125		3
Molybdenum	DUP	2416551-01	0.59500	0.50000		mg/kg	17.4		20		J	1
	MS	2416551-01	0.59500	93.775	100.00	mg/kg		93.2		75 - 125		2
	MSD	2416551-01	0.59500	92.575	100.00	mg/kg	1.3	92.0	20	75 - 125		3
Nickel	DUP	2416551-01	18.320	17.500		mg/kg	4.6		20			1
	MS	2416551-01	18.320	122.78	100.00	mg/kg		104		75 - 125		2
	MSD	2416551-01	18.320	119.75	100.00	mg/kg	2.5	101	20	75 - 125		3
Selenium	DUP	2416551-01	ND	ND		mg/kg			20			1
	MS	2416551-01	ND	17.690	20.000	mg/kg		88.4		75 - 125		2
	MSD	2416551-01	ND	17.415	20.000	mg/kg	1.6	87.1	20	75 - 125		3
Silver	DUP	2416551-01	0.15500	0.14000		mg/kg	10.2		20		J	1
	MS	2416551-01	0.15500	10.250	10.000	mg/kg		101		75 - 125		2
	MSD	2416551-01	0.15500	10.075	10.000	mg/kg	1.7	99.2	20	75 - 125		3

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Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals	R#
QC Batch ID: B199000	Used client sample: Y - Description: B-1 0'-1', 10/14/2024 14:11											
Thallium	DUP	2416551-01	ND	ND		mg/kg			20			1
	MS	2416551-01	ND	98.370	100.00	mg/kg		98.4		75 - 125		2
	MSD	2416551-01	ND	97.485	100.00	mg/kg	0.9	97.5	20	75 - 125		3
Vanadium	DUP	2416551-01	33.775	33.110		mg/kg	2.0		20			1
	MS	2416551-01	33.775	141.47	100.00	mg/kg		108		75 - 125		2
	MSD	2416551-01	33.775	137.42	100.00	mg/kg	2.9	104	20	75 - 125		3
Zinc	DUP	2416551-01	79.465	79.785		mg/kg	0.4		20			1
	MS	2416551-01	79.465	182.74	100.00	mg/kg		103		75 - 125		2
	MSD	2416551-01	79.465	186.94	100.00	mg/kg	2.3	107	20	75 - 125		3
QC Batch ID: B199119	Used client sample: N											
Mercury	DUP	2416463-01	0.087778	0.084286		mg/kg	4.1		20		J	4
	MS	2416463-01	0.087778	0.88889	0.79365	mg/kg		101		80 - 120		5
	MSD	2416463-01	0.087778	0.91746	0.79365	mg/kg	3.2	105	20	80 - 120		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B199000-DUP1	DUP	EPA-6010B	10/16/24	10/16/24 17:50	JEH	ICP5	1
2	B199000-MS1	MS	EPA-6010B	10/16/24	10/16/24 17:54	JEH	ICP5	1
3	B199000-MSD1	MSD	EPA-6010B	10/16/24	10/16/24 17:56	JEH	ICP5	1
4	B199119-DUP1	DUP	EPA-7471A	10/17/24	10/17/24 13:02	TMT	CETAC3	0.992
5	B199119-MS1	MS	EPA-7471A	10/17/24	10/17/24 13:05	TMT	CETAC3	0.992
6	B199119-MSD1	MSD	EPA-7471A	10/17/24	10/17/24 13:07	TMT	CETAC3	0.992

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3600 Pegasus Drive
Bakersfield, CA 93308

Reported: 10/25/2024 12:18
Project: N. Chester Ave & Decatur St. Phase II
Project Number: 4540.2400028.0000
Project Manager: Isabel Ramos

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A10	Detection and quantitation limits were raised due to matrix interference.
A17	Surrogate not reportable due to sample dilution.
A52	Chromatogram not typical of diesel.
A57	Chromatogram not typical of motor oil.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S09	The surrogate recovery for this compound was not within the control limits.

APPENDIX C

Previous Report: Phase I ESA

3600 Pegasus Drive, Suite #11, Bakersfield, CA 93308
(661) 344-9946| oneues.com

PHASE I ENVIRONMENTAL SITE ASSESSMENT

801/805 N Chester Avenue & 106/108 Decatur Avenue
801/805 N Chester Avenue and 106/108 Decatur Avenue
Bakersfield, Kern, CA 93301
UES Project No. 4540.2400020.0000

Report Issuance Date: August 21, 2024
Report Viability Date: January 27, 2024

Prepared for:

Housing Authority of the County of Kern
601 24th Street
Bakersfield, CA 93301
Attention: Maria Guzman

Prepared by:

Universal Engineering Sciences
3600 Pegasus Drive, Suite 11
Bakersfield, CA 93308
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Geotechnical Engineering
Geophysical Technology
Materials Testing
Field Inspections & Code Compliance

August 21, 2024

Housing Authority of the County of Kern
Maria Guzman
601 24th Street
Bakersfield, CA 93301

Subject: Phase I Environmental Site Assessment
801/805 N Chester Avenue & 106/108 Decatur Avenue
801/805 N Chester Avenue and 106/108 Decatur Avenue
Bakersfield, Kern County, CA 93301
4540.2400020.0000

Dear Maria Guzman:

In accordance with our Proposal No. 4540.0724.00004, dated , UES has performed a Phase I Environmental Site Assessment (ESA) of the referenced property. We urge you to read the entire report and to contact the undersigned with any questions or concerns you may have about it.

We appreciate the opportunity to be of assistance. Please contact the undersigned if you have any questions.

Respectfully submitted,
UES

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LIST OF APPENDICES

GLOSSARY OF ENVIRONMENTAL ACRONYMS

AAI - All Appropriate Inquiry
AST - Aboveground Storage Tank
ASTM - American Society for Testing and Materials
AUL - Activity and Use Limitations
B/VCP - Brownfields/Voluntary Cleanup Program
BLS - Below Land Surface
CERCLA - Comprehensive Environmental Response, Compensation and Liability Act
COC - Chemicals of Concern
CREC - Controlled Recognized Environmental Condition
CORRACTS - Corrective Action Report
DERT - Dry-cleaning Environmental Response Trust
DRO - Diesel Range Organics
DTL - Default Target Level
EDR - Environmental Data Resources, Inc.
EP - Environmental Professional
ERNS - Emergency Response Notification System
ESA - Environmental Site Assessment
FINDS - Facility Index System FUDS - Formerly Used Defense Site
FUDS - Formerly Used Defense Site
GRO - Gasoline Range Organics
HA- Health Advisories
HREC - Historical Recognized Environmental Condition
LQG - Large Quantity Generator
LUST - Leaking Underground Storage Tank
MINES - Mines Master Index File
MCL - Maximum Contaminant Level
NFA - No Further Action
NFRAP - No Further Remedial Action Planned
NPDES - National Pollution Discharge Elimination System
NPL - National Priority List
ORO - Oil Range Organics
PAH - Polycyclic Aromatic Hydrocarbons
PCB - Polychlorinated Biphenyl
PID - Photoionization Detector

PSTIF - Petroleum Storage Tank Insurance Fund

REC - Recognized Environmental Condition

RBTL - Risk-Based Target Level

RCRIS - Resource Conservation and Recovery Information System

RCRA - Resource Conservation and Recovery Act

ROD - Record of Decision

SHWS - State Hazardous Waste Site

SQG - Small Quantity Generator

SRP - Site Remediation Program

SWF/LS or SWF/LF - Solid Waste Facility/Landfill Site

TPH - Total Petroleum Hydrocarbons

TSD - Transport, Storage and Disposal Facility

USGS - United States Geological Survey

USEPA - United States Environmental Protection Agency

UST - Underground Storage Tank

VAP - Voluntary Action Program

VCP - Voluntary Cleanup Program

VOC - Volatile Organic Compound

EXECUTIVE SUMMARY

This report presents the findings of a Phase I Environmental Site Assessment (ESA) performed on the subject property addressed at 801/805 N Chester Avenue and 106/108 Decatur Avenue in the City of Bakersfield, Kern County, CA. UES conducted this investigation for the purpose of identifying recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), and/or controlled recognized environmental conditions (CRECs) on the subject property in accordance with the 2021 ASTM International standard practice for the performance of Phase I Environmental Site Assessments (ASTM E1527-21). The U.S. Environmental Protection Agency (EPA) has endorsed this practice as satisfying the requirements of All Appropriate Inquiry (AAI). UES performed this work for Housing Authority of the County of Kern (User). Any exceptions to, or deletions from, this practice are described in Section 10 of this report.

General Findings:

- The Subject Property is located at 801/805 N Chester Avenue and 106/108 Decatur Avenue Bakersfield Kern CA (Figures 1, 2, and 4) and is approximately 0.48 acres of land compromised of 4 contiguous parcels that are paved and vacant. The Subject Property is identified by Kern County Assessor's Parcel Number (APN) 113-280-11, -12, -13, & -14.
- The historical land use research dating back to the early 19000s revealed that the Subject Property was undeveloped in 1906. The western portion of the Subject Property was occupied by residential homes from at least 1930 until 1973; by 1984 the western portion remained vacant and utilized as a parking lot. The eastern portion of the subject property was occupied by at least two buildings in 1937, but from 1942 to at least 2020 the eastern portion was occupied by one large building. The Subject Property was part of Trouts Nightclub from at least 1951 to at least 2017. The building on the eastern portion of the subject property was burnt down in 2022 and has since remained vacant.
- Given the documentation reviewed concerning the agency listings for neighboring facilities, none of the facilities reviewed is likely to have a negative impact on the Subject Property.
- Based on the completion of the vapor encroachment condition (VEC) screening matrix, UES concludes a VEC can be ruled out because a VEC does not or is not likely to exist.
- The properties adjacent to the Subject Property to the west, southwest, and northwest have been developed for single-family residential use since at least the 1930s and continue to serve this purpose today. To the north and south of the Subject Property, commercial buildings have been present from at least 1952 and remain in use. North Chester Avenue has been developed since 1906, while Decatur Avenue has been developed since 1930.

- According to the information provided by EDR, two separate dry-cleaning facilities operated on the subject property during the years 1955 and 1970. The facilities were operational before the environmental risks of PCE (perchloroethylene) were understood and before regulations for handling and disposal were in place. While there are no documented spills or releases, there are also no records of any remediation efforts conducted at the site prior to its redevelopment. Further investigation is warranted due to the potential environmental risks historically associated with dry cleaning operations.

Amendment to Phase I Environmental Site Assessment (ESA)

- **Amendment Date:** October 2, 2024
- **Reason for Amendment:** Updated information regarding Per- and Polyfluoroalkyl Substances (PFAS) and Asbestos-Containing Materials (ACMs).
- **Summary of Changes:**
  - **PFAS Concerns:** New documentation from the Kern County Fire Department indicates that no firefighting foam was used to extinguish the fire on the Subject Property—only water was used.
  - **Asbestos-Containing Material:** A post-fire asbestos survey conducted by the owner identified asbestos only in vinyl flooring. It is assumed that the necessary precautions were taken during demolition.
- **Impact on Conclusions: Based** on these updates, the following concerns are no longer classified as Recognized Environmental Conditions (RECs):
  - **PFAS Concerns:** PFAS from firefighting foam was originally considered a REC. However, the absence of foam use removes this concern.
  - **ACMs:** While the fire and demolition could have released these materials, the owner's asbestos survey and remediation efforts have mitigated these concerns.

Upon conclusion of our Phase I ESA, and based on the recent information reviewed, this assessment has revealed evidence of HRECs, CRECs, or RECs as follows:

Recognized Environmental Conditions (REC)

- **Subterranean Room:** The lack of access or documentation regarding a potential subterranean room beneath the eastern portion of the property presents a REC. The unknown contents and condition of this space raise concerns about possible environmental risks.
- **Polycyclic Aromatic Hydrocarbons (PAHs):** The fire that destroyed the previous building may have introduced PAHs, hazardous compounds formed during combustion, to the site. These persistent environmental risks constitute a REC.

- **Lead-based Paints:** Due to the age of development on the property, lead-based paints were likely used. The fire and subsequent demolition may have released these materials, making it a REC.

Historical Recognized Environmental Conditions (HREC)

No Historical Recognized Environmental Conditions were found for the subject property.

Controlled Recognized Environmental Conditions (CREC)

No Controlled Recognized Environmental Conditions were found for the subject property.

Environmental Business Risk

Phase I ESA findings characterized certain business environmental risks as defined by ASTM E 1527-21. These risks may warrant further research or assessment specific to prospective land use, pending construction work, and the risk tolerance of the User. Phase I ESA findings did not characterize any business environmental risks as defined by ASTM E 1527-21.

1.0 INTRODUCTION

1.1 Purpose

This report presents the findings of a Phase I ESA performed on the property addressed at 801/805 N Chester Avenue and 106/108 Decatur Avenue in Bakersfield, Kern County, CA, and hereafter referred to as the subject property. Universal Engineering Sciences (UES) conducted this Phase I ESA for the purpose of identifying RECs, HRECs, and/or CRECs on the subject property in accordance with the 2021 ASTM International standard practice for the performance of Phase I Environmental Site Assessments (ASTM E1527-21). The U.S. Environmental Protection Agency (EPA) has endorsed this practice as satisfying the requirements of All Appropriate Inquiry (AAI). Definitions of REC, CREC, HREC, Vapor Encroachment Condition (VEC), and BER are presented below.

- REC: (1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. The term REC is not intended to include *de minimis* conditions which are conditions related to a release that generally do not present a threat to human health or the environment and which generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. ASTM clarifies that the term "likely" means a condition *"which is neither certain nor proved but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given."*
- CREC: A REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).
- HREC: A previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A HREC is not a REC.
- VEC: the presence or likely presence of "chemical of concern" vapors in the subsurface of the Target Property caused by the release of vapors from contaminated soil or groundwater or both either on or near the Target Property as identified by the Tier 1 or Tier 2 procedures.

- BER: a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.

1.2 Scope of Work

The scope of work performed, and procedures utilized included the following tasks:

- Subject property reconnaissance and observation of adjoining properties and vicinity by a qualified person under the direct supervision of an Environmental Professional;
- Environmental and physical setting review to assess geologic, hydrogeologic, hydrologic and topographic characteristics of the subject property, and to determine potential pathways for the migration of contaminants including solids and liquids at the surface or subsurface, and vapor in the subsurface;
- Review of subject property history/land use through city directory listings, historical aerial photographs, historical topographic maps, fire insurance maps (if ascertainable), local jurisdiction records, and personal interviews/questionnaires;
- Review of regulatory agency records to identify and assess any listings of regulatory permits, registrations, or enforcement actions at the subject property, adjoining properties, or proximal sites (if necessary), through both a commercial database search and agency inquiries;
- Interview with the User to obtain various User-required information about the subject property as required under the ASTM standard and the AAI rule;
- Interviews with the Owner and Various Agencies to ascertain past and current uses of the subject property, adjoining properties or the surrounding area which may provide information about the subject property history and assist in identifying RECs, HRECs and CRECs;
- Preparation of this report that describes all work performed and presents a discussion of the findings and conclusions.
- The scope of services does not include soil or groundwater sampling, or an evaluation of asbestos containing building materials, lead based paint, lead in drinking water, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, indoor air quality, mold, radon, geotechnical exploration (soils, foundations, site retention, etc.), wetlands, endangered species, ecological resources, methane, geotechnical exploration, or construction materials testing, unless specified in the approved contract between UES and the client. UES can provide these additional services if necessary. In accordance with ASTM E1527-21, Section 13.1.5, assessment of such non-scope considerations is not required for All Appropriate Inquiry as defined in the standard practice.

1.3 Conditions of Contract

UES performed this work for Housing Authority of the County of Kern (User) pursuant to our proposal 4540.0724.00004 dated July 19, 2024 and executed by the User on July 26, 2024. A copy of the executed proposal and Terms/General Conditions is included in the Terms/General Conditions Appendix.

1.4 Significant Assumptions

This Phase I ESA was conducted in accordance with the assumptions and limitations contained within ASTM Standard Practice for Environmental Site Assessments - Phase I Environmental Site Assessment Process, ASTM E1527-21.

As stated in ASTM E1527-21 Section 4.5.1, no environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a subject property. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a subject property and recognizes reasonable limits of time and cost.

Additionally, portions of this Phase I ESA are based on unverified information supplied to UES by third-party sources. In accordance with ASTM E1527-21 Section 7.5.2.1, an Environmental Professional EP is not required to verify independently the information provided by third-party sources, unless the EP has actual knowledge that the information is incorrect, or unless it is obvious that certain information is incorrect based on other information obtained in the Phase I ESA.

1.5 User Reliance

This report is an instrument of service prepared by UES for the exclusive use of Housing Authority of the County of Kern. In order to create a report upon which could rely, UES worked closely with Housing Authority of the County of Kern in the development of the scope of services, upon which all subsequent tasks have been based. No party other than Housing Authority of the County of Kern is permitted by UES to rely on this instrument. With the permission of Housing Authority of the County of Kern, UES will meet with a third party to help identify the additional services required, if any, to permit such third party to rely on the information contained in this report, but only to the same extent of Housing Authority of the County of Kern reliance, and subject to the same contractual, technological, and other limitations to which Housing Authority of the County of Kern has agreed. The findings of this Phase I ESA are based on the completeness and accuracy of the data and observed conditions of the subject property as of the indicated property reconnaissance

date, and when publicly available information was obtained as described in this report. Housing Authority of the County of Kern has agreed to the General Conditions in the signed proposal.

1.6 Critical Dates - Continued Viability of ESA

UES's conclusions are based upon reviewed documentation and observations of the subject property conditions, as they existed on the date of observations. Because subject property conditions may change significantly over a short period of time and additional data may become available, data reported and conclusions drawn in this report are limited to current conditions and may not be relied upon at a significantly later date (generally considered as 180 days) and/or following property use changes, whichever occurs first. An update report may be prepared after 180 days, but after one year a new Phase I ESA is to be prepared.

CRITICAL DATES

PHASE I ESA COMPONENT	DATE
Date of Declaration by the Environmental Professional for the Assessment or Update	August 21, 2024
Earliest Date of Interviews with Owners, Operators, and Occupants	August 8, 2024
Date of Federal, Tribal, State, and Local Records Review	August 8, 2024
Date of Site Reconnaissance of the Subject Property and Adjoining Properties	July 31, 2024
Report Viability Date	January 27, 2024

1.7 Limitations

The findings and recommendations presented in this Phase I ESA report are based solely upon the Subject Property conditions, information, and supporting data obtained and reviewed through the Client-authorized Scope of Services, as presented in UES's proposal. This information is subject to change over time and UES cannot represent Subject Property conditions beyond those specifically identified through the authorized Scope of Services. UES makes no warranties, expressed or implied, with regard to professional services, associated findings, or third-party information used in connection with this project. No environmental samples were collected as part of this Phase I ESA. Without specific cause to speculate or discount third-party information, we assume this information remains accurate and reliable for Phase I ESA determinations and related land use planning. Some of the information included in this report was obtained from outside sources, including government agencies and database services. Information furnished to UES in the interviews/questionnaires is taken as true and correct; UES is not responsible for inaccurate information furnished by others. Please refer to the Limitations Appendix for a summary of report limitations.

2.0 SUBJECT PROPERTY DESCRIPTION

A description of the subject property, location and vicinity characteristics are summarized in the table below. Refer to the Site Location Map (**Figure 1**) and the 2020 Aerial Photograph (**Figure 2**) for additional details pertaining to the subject and adjoining properties.

Subject Property Location, Description, and Vicinity Characteristics

Physical Street Address(es)	801/805 N Chester Avenue and 106/108 Decatur AvenueBakersfield, CA
Acreage	0.48
Property Identification No.	113-280-11, 113-280-12, 113-280-13, and113-280-14
Public Land Survey System	SE¼ of the SE¼ of Section 12 Township 29 South, Range 27 East Mount Diablo Principal Meridian
Current Ownership	Truxton Psychiatric Medical Group, LP
Current Use	Empty paved lots
Land Use	2501: Parking Lots- Use solely for parking of vehicles; 1804: Cocktail Lounge; 1020: Vacant land-Zoned C-2
Zoning	R-3P High Density Residential, Interim & C-2 General Commercial
Legal Description	CITY DKNSN BLOCK 3 LOT 2; CITY DKNSN BLOCK 3 LOT 1; CITY DKNSN BLOCK 2 LOT PTN; CITY DICKN BLOCK 2 LOT 1PN2
Vicinity Characterization	The west is characterized by single-family residential homes; the north and south are characterized by general commercial; and the east is characterized by N Chester Avenue.

2.1 Location and Legal Description

The subject property consists of 4 contiguous parcels (Kern County Property ID No(s). 113-280-11, 113-280-12, 113-280-13, and113-280-14), which comprises approximately 0.48 acres of vacant, paved land located at 801/805 N Chester Avenue and 106/108 Decatur Avenue in Bakersfield, Kern County, CA, 93301. The subject property is located within Section 12, Township 29 South and Range 27 East. A legal description of the subject property was provided by the Kern County. (2024). *Kern County public map viewer*. Kern County GIS. and is as follows: CITY DKNSN BLOCK 3 LOT 2; CITY DKNSN BLOCK 3 LOT 1; CITY DKNSN BLOCK 2 LOT PTN; CITY DICKN BLOCK 2 LOT 1PN2.

2.2 Property and Vicinity Characteristics

At the time of UES's assessment, the subject property was a paved, vacant lot and sited with 0 buildings. The subject property vicinity is characterized primarily by commercial development to the north and single-family development to the west and along Decatur Street. Refer to the Site Location

Map (**Figure 1**) and the 2020 Aerial Photograph (**Figure 2**) for additional details pertaining to the subject and adjoining properties.

2.3 Current Use of the Subject Property

At the time of the site reconnaissance, the subject property consisted of paved vacant lots.

2.4 Structures, Roads, and/or Other Improvements within the Subject Property

At the time of the site reconnaissance, there were no structures, roads, or other improvements on the subject property.

3.0 PHYSICAL SETTING RESOURCES

USGS topographic quadrangle maps, soil survey data, available regulatory files, and other reasonably ascertainable records regarding properties of environmental concern in the property vicinity were reviewed as sources for obtaining information regarding the physical setting of the subject property and surrounding vicinity and are summarized in the table below. A copy of the most recent available USGS topographic map is provided on Figure 3.

Summary of Physical Setting Sources

Topography:

Subject Property Elevation	442 feet
Topographic Gradient	0
Closest Surface Water	Beardsley Canal

General Soil Characteristics:

Soil Type	180- Kimberlina
Description	Kimberlina-Urban land-Cajon complex, 0 to 2 percent slopes, hydrologic Soil Group: A

Area Specific Geology/Hydrogeology Characteristics:

Geology	Qoa- Marine and Nonmarine (Continental) Sedimentary Rocks. Age: Pleistocene. Description: Older alluvium, lake, playa, and terrace deposits.
Hydrogeology	Tulare Lake
Groundwater Direction	Up-gradient

Site Specific Geology Characteristics:

Site Specific Geology	Qc- Pleistocene nonmarine

4.0 USER PROVIDED INFORMATION

4.1 General

The ASTM Standard defines a User as "the party seeking to use Practice E1527 to complete an environmental site assessment. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager." The User has specific obligations for completing a successful application of this practice as outlined in Section 6 of the ASTM Standard Practice E1527-21.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must complete an AAI compliant user questionnaire and provide it to the environmental professional. Failure to complete this user questionnaire could result in a determination that "all appropriate inquiry" is not complete. The questionnaire determines a baseline of User knowledge of the subject property regarding the following items:

1. Environmental cleanup liens that are filed or recorded against the subject property (40 CFR 312.25);
2. Activity and land use limitations that are in place on the site or have been filed or recorded in a registry (40 CFR 312.26);
3. Specialized knowledge or experience of the person seeking to qualify for the LLP related to the subject property or nearby properties (40 CFR 312.28);
4. Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 CFR 312.29);
5. Commonly known or reasonably ascertainable information about the subject property (40 CFR 312.30); and
6. The presence or likely presence of contamination in, on, or at the subject property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

A User Questionnaire was supplied to Maria Guzman of Housing Authority of the County of Kern on August 6, 2024 by UES. The following responses were provided by the User. A copy of the completed User Questionnaire is included in the User Questionnaire Appendix.

SUMMARY OF USER QUESTIONNAIRE RESPONSES

QUESTION	RESPONSE
Name of Preparer and User Entity	Maria Guzman, Housing Authority of the County of Kern
As the User, are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?	No
As the User, are you aware of any Activity and Use Limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?	No
As the User, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	No
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	Yes
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	n/a
As the User of this ESA are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	No
Do you know the past uses of the property?	No
Do you know of specific chemicals that are present or once were present at the property?	User does not know

QUESTION	RESPONSE
Do you know of spills or other chemical releases that have taken place at the property?	User does not know
Do you know of any environmental cleanups that have taken place at the property?	User does not know
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	User is not aware of any

4.2 Reason for Performing Phase I ESA

UES was contracted to perform this Phase I ESA in order for the prospective owner to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser defense to CERCLA liability.

4.3 Environmental Liens or Activity and Use Limitations

Information pertaining to potential environmental liens or activity and use limitations on the subject property that are filed or recorded under federal, tribal, state, or local laws was not supplied by the User. Please note that an environmental liens or activity and use limitations search was not performed for the subject property. In accordance with ASTM E1527-21, it is the responsibility of the User of this report to confirm that there are no environmental liens or activity and use limitations filed for the subject property. In the event that any are identified, please contact UES immediately for further evaluation.

5.0 HISTORICAL RECORDS REVIEW

A historical assessment of the Subject Property, adjoining properties, and surrounding area was performed through a search and review of available historical resources, including aerial photographs, topographic maps, Sanborn fire insurance maps, city directory records, and county records. The purpose of the historical assessment was to identify previous land uses of the Subject Property, adjoining properties, and surrounding areas that may have impacted the Subject Property in the past. A summary of our historical assessment is presented in the following sections of this report.

5.1 Aerial Photographs

A historical assessment of the Subject Property, adjoining properties, and surrounding area was performed through a search and review of available historical resources, including aerial photographs, topographic maps, Sanborn fire insurance maps, city directory records, and county records. The purpose of the historical assessment was to identify previous land uses of the Subject Property, adjoining properties, and surrounding areas that may have impacted the Subject Property in the past. A summary of our historical assessment is presented in the following sections of this report.

Summary of Aerial Photographs Observations

Photograph Date	Subject Property	Adjoining Property
1937	Structures are present on all 4 parcels recognized as the subject property.	Single-family residential homes are adjoining the property to the north and west, North Chester Avenue to the east, and Decatur Street to the south. There's a sprawl of residential homes within 1/4-mile radius of the subject property.
1942	Structures are no longer present on parcels: 113-280-13 & 113-280-14, but the remaining two parcels still contain existing structures.	A commercial building is adjoining the property to the north.
1952	No significant changes noted.	To the south across Decatur Street is a commercial building. The expansion of North Chester Avenue is present.
1956	The construction of a building is present within parcel: 113-280-13.	The area east of the subject property across N Chester Avenue is undeveloped and vacant.
1968	On site of parcels: 113-280-13 &-14 is a building present.	There is a building present located east of the subject property, across N Chester Avenue.
1973	No significant changes noted.	No significant changes noted.
1984	Structures originally situated on parcels: 113-280-11 & 113-280-12 are no longer present. The area has been transformed into a parking lot	An additional building is present to the east across N Chester Avenue.

Photograph Date	Subject Property	Adjoining Property
	for the existing building located along the eastern boundary.	
1994	No significant changes noted.	No significant changes noted.
2006	No significant changes noted.	No significant changes noted.
2009	No significant changes noted.	No significant changes noted.
2012	No significant changes noted.	No significant changes noted.
2016	No significant changes noted.	No significant changes noted.
2020	No significant changes noted.	No significant changes noted.
Google Earth Aerial Images (2023)	No buildings are present on the entire subject property.	No significant changes noted.

5.2 Topographic Maps

UES reviewed a series of historical topographic maps in order to evaluate the previous land uses of the subject property and surrounding area. Copies of the historical topographic maps are provided in the Aerial Photographs, Topographic Maps, Sanborn Fire Insurance Maps and City Directories Appendix.

Descriptions of UES's observations are outlined in the table below.

Summary of Topographic Map Observations

Map Date	Map Quality	Subject Property	Adjoining Property
1906	1:62500	Subject property is vacant and undeveloped.	N Chester Avenue is present along the eastern boundary, scattered buildings are present to the east, north, and south, a perennial stream is located to the south of the subject property. A railroad is located approximately 1/2 mile to the north.
1910	1:125000	No significant changes noted.	No significant changes noted.
1912,1914	1:125000	No significant changes noted.	No significant changes noted.

Map Date	Map Quality	Subject Property	Adjoining Property
1930,1933	1:31680	Buildings are presented	An abundant of buildings and network of roads are present surrounding the subject property.
1935	1:31680	No significant changes noted.	North Chester Avenue is recognized as a primary highway.
1942	1:62500	No buildings are represented on the subject property.	Surrounding the subject property is not representative of any structures. A house of worship (church) is located approximately 655 feet northwest.
1947	1:50000	No significant changes noted.	No significant changes noted.
1954,1954	1:24000	No significant changes noted.	N Chester Avenue is recognized as a secondary highway.
1968,1968	1:24000	No significant changes noted.	No significant changes noted.
1973,1973	1:24000	No significant changes noted.	No significant changes noted.
1978,1978	1:24000	Topographic map is translated to an aerial map: Structures are present on the subject property.	Multiple single-family residential homes surround the property.
2012,2012	1:24000	No buildings or structures are representative on the subject property.	N Chester Avenue is no longer considered a highway, but solely a paved road.
2015,2015	1:24000	No significant changes noted.	No significant changes noted.
2018,2018	1:24000	No significant changes noted.	No significant changes noted.
2022,2022	1:24000	No significant changes noted.	No significant changes noted.

5.3 Sanborn Fire Insurance Maps

Fire insurance maps generated by the Sanborn® Map Company were obtained for the subject property and vicinity from EDR Lightbox. The fire insurance maps provide a progressive overview of the subject property, adjoining properties, and surrounding lands. Descriptions of UES's observations are outlined in the table below. Copies of the fire insurance maps reviewed are presented in the Aerial Photographs, Topographic Maps, Sanborn Fire Insurance Maps and City Directories Appendix.

Summary of Fire Insurance Map Observations

Map Date	Subject Property	Adjoining Property
1922	On the subject property is a dwelling and an automobile designated area most likely used as a car garage.	Dwellings and car garages are located to the north, west, and south of the subject property.
1932	The southeastern area of the subject property is occupied by a Church of God; the single dwelling and car garage still remain on the property.	Commerical property, gas stations, and additional dwellings are present and to the east and northeast of the subject property.
1949	An additional dwelling and car garage is located to the western side of the property; the church of God is no longer present. The eastern side of the property is now occupied by a post office, restaurant, and 2 stores.	The northern adjoining subject property is occupied by multiple stores, and a gas station.
1957	The western side of the subject property remains the same occupied by two dwellings and 2 car garages; the eastern side of the subject property is occupied by a store, a restaurant, and a vacant lot.	No significant changes noted.

5.4 Historical City Directories

UES reviewed city directories to evaluate the previous land uses of the subject property and surrounding area. The city directory findings are provided in the Aerial Photographs, Topographic Maps, Sanborn Fire Insurance Maps and City Directories Appendix. Descriptions of UES's observations are outlined in the table below.

Summary of City Directory Observations

Date	Subject Property	Adjoining Properties
1922	801 N Chester Avenue: Not listed 805 N Chester Avenue: Post Office 106 Decatur Avenue: Not listed 108 Decatur Avenue: Not listed	No environmentally significant listings

Date	Subject Property	Adjoining Properties
1928, 1930, 1935, 1940	801 N Chester Avenue: Not Listed 805 N Chester Avenue: Not Listed 106 Decatur Avenue: Not Listed 108 Decatur Avenue: Not Listed	No environmentally significant listings
1945	801 N Chester Avenue: Wattles R R Liquors 805 N Chester Avenue: Post Office 106 Decatur Avenue: Morehead J E 108 Decatur Avenue: Blackburn JJ	No environmentally significant listings
1951	801 N Chester Avenue: Billies Frigid Liquors 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: McCabe H L 108 Decatur Avenue: Blackburn JJ	No environmentally significant listings
1955	801 N Chester Avenue: El Rio Liquors fa 805 N Chester Avenue: Trouts Cocktail Lounge fa 106 Decatur Avenue: A one carpet Serv fa // Wood Walter J 4 F 108 Decatur Avenue: Blackburn Jesse J fa	No environmentally significant listings
1960	801 N Chester Avenue: Hawaii Fern Co Inc florist sup 805 N Chester Avenue: Trouts Cocktail Loitnge ex 106 Decatur Avenue: A one carpet Serv rug clns ex // Wood Walter J ex 108 Decatur Avenue: Blackburn Jesse J ex	No environmentally significant listings
1965	801 N Chester Avenue: Vics Upholstering Service 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: A one carpet service rug clns // Wood Walter J 108 Decatur Avenue: Not listed	No environmentally significant listings

Date	Subject Property	Adjoining Properties
1970	801 N Chester Avenue: Vics Upholstering Service 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: A one Carpet Service rug clns // Wood Walter J 108 Decatur Avenue: Blackburn Jesse J	No environmentally significant listings
1971	801 N Chester Avenue: Not Listed 805 N Chester Avenue: Not Listed 106 Decatur Avenue: Not Listed 108 Decatur Avenue: Not Listed	No environmentally significant listings
1975	801 N Chester Avenue: Vics Upholstering Service 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: Doyle Pat Mrs 108 Decatur Avenue: Blackburn Adah E Mrs	No environmentally significant listings
1976	801 N Chester Avenue: Not Listed 805 N Chester Avenue: Not Listed 106 Decatur Avenue: Not Listed 108 Decatur Avenue: Not Listed	No environmentally significant listings
1980	801 N Chester Avenue: Vics Upholstering & Canvass 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: Leary Danl J Jr 108 Decatur Avenue: Blackburn Adah E Mrs	No environmentally significant listings
1986	801 N Chester Avenue: VICS Upholstery & Draperies 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: Not listed 108 Decatur Avenue: Not listed	No environmentally significant listings

Date	Subject Property	Adjoining Properties
1990, 1992, 1995	801 N Chester Avenue: Not listed 805 N Chester Avenue: Trouts Cocktail Lounge 106 Decatur Avenue: Not listed 108 Decatur Avenue: Not listed	No environmentally significant listings
2000	801 N Chester Avenue: Not Listed 805 N Chester Avenue: Not Listed 106 Decatur Avenue: Not Listed 108 Decatur Avenue: Not Listed	No environmentally significant listings
2002	801 N Chester Avenue: Not listed 805 N Chester Avenue: Trouts Cocktail Lounge cocktail lounges 106 Decatur Avenue: Not listed 108 Decatur Avenue: Not listed	No environmentally significant listings
2005	801 N Chester Avenue: Not Listed 805 N Chester Avenue: Not Listed 106 Decatur Avenue: Not Listed 108 Decatur Avenue: Not Listed	No environmentally significant listings
2010, 2014, 2017	801 N Chester Avenue: Not listed 805 N Chester Avenue: Trouts Nightclub INC (Trouts Lounge) 106 Decatur Avenue: Not listed 108 Decatur Avenue: Not listed	No environmentally significant listings
2020	801 N Chester Avenue: Not listed 805 N Chester Avenue: Vern Hoover 106 Decatur Avenue: Not listed 108 Decatur Avenue: Not listed	No environmentally significant listings

5.5 Property Tax Records

According to the Kern County Assessor Property search reports and Tax Parcel information provided by EDR Lightbox, the current owner of the subject property is Truxton Psychiatric Medical Group, LP. It appears that this entity has owned the subject property for approximately 4 years. The subject property is currently zoned for R-3P High Density Residential, Interim & C-2 General Commercial The land use code for the subject property is 2501: Parking Lots- Use solely for parking of vehicles;

1804: Cocktail Lounge; 1020: Vacant land-Zoned C-2. Copies of the property assessor report(s) are presented in the Property Tax Records Appendix.

5.6 Recorded Land Title Records

The User did not contract UES to acquire a chain-of-title report for the subject property, which typically contains information regarding historical site ownership.

5.7 Building Department Records

A summary of available permit information was obtained from the EDR's Lightbox application. None of the available permits appears to be indicative of environmental concerns. A copy of the building permit information from EDR is presented in the Building Department Records.

5.8 Other Historical Sources

Previous ESA or other environmental reports prepared for the subject property were not provided by the User and were not identified in the public records reviewed within the scope of this report.

6.0 RECORDS REVIEW

6.1 Standard Environmental Record Sources

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Subject Property. Accuracy and completeness of record information varies among information sources, including governmental sources. Record information is often inaccurate or incomplete. UES reviewed standard sources that are reasonably ascertainable for this Phase I ESA. Environmental Data Resources, Inc. (EDR) was contracted to provide records from federal, state, and local environmental databases for regulatory sites located within the Approximate Minimum Search Distances as specified in ASTM E 1527-21.

A copy of the EDR Radius Map Report is provided in the Appendix. Included within the report are summaries of the regulatory databases reviewed, a listing of sites identified within the search radius, detailed data on the identified sites, and maps showing the locations of facilities reported to have had regulatory action.

UES also reviewed the "unmappable" (commonly referred to as "orphan") listings within the database report, cross-referencing available address information, and facility names. Unmappable sites are listings that could not be plotted with confidence but are potentially in the general area of the

Subject Property based on the partial street address, city, or zip code. Any unmappable site that UES identified as being within the approximate minimum search distance from the Subject Property, based on the site reconnaissance and/or cross-referencing to mapped listings, is included in the discussion within this section.

MSDs - ASTM E1527-21

Source	Search Distance	Total Plotted
Federal NPL Site List (National Priorities List)	1.0 mile	0
Federal Delisted NPL Site List	0.5 mile	0
Federal CERCLIS List (Comprehensive Environmental Response Compensation and Liability Act of 1980) / Superfund Enterprise Management System (SEMS)	0.5 mile	0
Federal CERCLIS NFRAP Site List /SEMS Archive List	0.5 mile	1
Federal RCRA CORRACTS Facilities List (Resource Conservation and Recovery Act)	1.0 mile	1
Federal RCRA non-CORRACTS TSD Facilities List	0.5 mile	0
Federal RCRA Generators List	subject property & adjoining parcels	2
Federal Institutional Control/Engineering Control Registries	subject property only	0
Federal ERNS List (Emergency Response Notification System)	subject property only	0
States and Tribal Lists of Hazardous Waste Sites identified for investigation or remediation: State- and Tribal-equivalent NPL State- and Tribal-equivalent SEMS	 1.0 mile 0.5 mile	 4 n/a
State and Tribal Landfill and/or Solid Waste Disposal Site Lists	0.5 mile	0
State and Tribal Leaking Storage Tanks Lists	0.5 mile	6
State and Tribal Registered Storage Tank Lists	subject property & adjoining parcels	6
State and Tribal Institutional Control/Engineering Control Registries	subject property only	n/a
State and Tribal Voluntary Cleanup Sites	0.5 mile	0
State and Tribal Brownfield Sites	0.5 mile	0

The subject property was identified as a record in the following databases searched by EDR: EDR Hist Cleaner. According to the information provided by EDR, two separate dry-cleaning facilities operated on the subject property during the years 1955 and 1970. Although no recorded spills or releases are associated with these facilities during their operational years, further investigation is warranted due to the potential environmental risks historically associated with dry cleaning operations.

The following facilities have been identified as environmentally significant and are located within the minimum search distance referenced in the table above. The sites identified in the EDR Radius Map Report were reviewed and were not researched further because they are considered unlikely to have caused environmental impacts to the subject property. The sites appear to be located at a distance and/or direction that should not impact the subject property; are at locations that are considered likely to be hydrologically downgradient from, or cross gradient to, the subject property; have had no reported releases; have had no reported violations of hazardous waste regulations; have received regulatory closure; and/or were not identified as a standard environmental record per ASTM.

Facilities Identified Within Minimum Search Distances

NAME	A ONE CARPET SERVICE
ADDRESS	106 DECATUR
DISTANCE	0
DIRECTION	Southwest
HYDROLOGIC POSTION	Up-gradient
DATABASES LISTED	EDR Hist Cleaner
FACILITY IDs	1009215771
DISCUSSION	The historic dry-cleaning facility operated between 1955 and 1970, before the environmental risks of PCE (perchloroethylene) were understood and before regulations for handling and disposal were in place. While there are no documented spills or releases, there are also no records of any remediation efforts conducted at the site prior to its redevelopment.

NAME	NU WAY CLEANERS
ADDRESS	809 N CHESTER AV
DISTANCE	0
DIRECTION	East-Northeast
HYDROLOGIC POSTION	Up-gradient
DATABASES LISTED	EDR Hist Cleaner
FACILITY IDs	1009213685

DISCUSSION	The historic dry-cleaning facility operated between 1955 and 1960, before the environmental risks of PCE (perchloroethylene) were understood and before regulations for handling and disposal were in place. While there are no documented spills or releases, there are also no records of any remediation efforts conducted at the site prior to its redevelopment.

Pertinent and supporting documentation of the reviewed regulatory agency records are presented in the Radius Map Report Appendix.

6.2 Vapor Encroachment Screening

The purpose of a Vapor Encroachment Screening (VES) is to identify VECs to the extent feasible pursuant to the procedures presented in the Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction (ASTM E2600-22). The VES is intended to be used independently or in conjunction with, but not as a replacement of, existing Practice E1527-21 Phase I ESA.

Vapor migration refers to the movement of hazardous substances or petroleum products vapor in the subsurface. A VEC is defined as the presence of likely presence of chemicals of concern (COC) vapors in the subsurface of the subject property caused by the release of vapors from contaminated soil and/or groundwater either on or near the subject property.

UES conducted a Tier1 VES for the subject property in accordance with ASTM E 2600-22. The Tier1 screening process utilizes the information collected as part of this Phase I ESA. The Area of Concern (AOC) for the purpose of this VES is 1/3 mile (1,760 feet) for COC and 1/10 mile (528 feet) for petroleum hydrocarbon COC. The approximate minimum search distances for Federal, Tribal and State-listed facilities surrounding the subject property are presented in the table below.

Approximate MSDs Surrounding the Subject Property (ASTM E2600-22)

Source	COC	Petroleum Hydrocarbon COC
Federal NPL Site List	1/3 mile	1/10 mile
Federal SEMS List	1/3 mile	1/10 mile
Federal RCRA CORRACTS Facilities List	1/3 mile	1/10 mile
Federal RCRA Non-CORRACTS TSD Facilities List	1/3 mile	1/10 mile
Federal RCRA Generators List	Subject property only	Subject property only
Federal Institutional Control/Engineering Control Registries	Subject property only	Subject property only

Source	COC	Petroleum Hydrocarbon COC
Federal ERNS List	Subject property only	Subject property only
State and Tribal Equivalent NPL	1/3 mile	1/10 mile
State and Tribal Equivalent SEMS	1/3 mile	1/10 mile
State and Tribal Landfill and/or Solid Waste Disposal Site Lists	1/3 mile	1/10 mile
State and Tribal Leaking UST/AST Lists	1/3 mile	1/10 mile
State and Tribal UST/AST Lists	Subject property only	Subject property only
State and Tribal Institutional Control/Engineering Control Registries	Subject property only	Subject property only
State and Tribal Voluntary Cleanup Sites	1/3 mile	1/10 mile
State and Tribal Brownfield Sites	1/3 mile	1/10 mile

Based on our regulatory records review detailed in Section 6.1 and the EDR Lightbox VES, facilities with known or suspected contamination are not located within the AOC; therefore, no VECs were identified in connection with the subject property. A copy of the EDR Lightbox VES report is presented in the Vapor Encroachment Screen Appendix.

6.3 Additional Environmental Records

Review of the California Geologic Energy Management Division (CalGEM) Well Finder website showed that the Subject Property is not located in a designated natural gas field. No CalGEM wells are located on or within at least half mile of the Subject Property (CalGEM, 2024).

The subject property is not located within any regulatory floodplain. The nearest flood hazard is located approximately 125 feet south of the Subject Property, the flood hazard is recognized as Flood Zone A and a 1% Annual Chance Flood Hazard (SFHA) (FEMA 2024). The floodplain map is provided in Appendix B.

UES reviewed data provided on the National Pipeline Mapping System website and identified 1 pipeline within half mile of the Subject Property. One pipeline, located north of the Subject Property, is noted as being owned by SFPP, LP and is reportedly a Hazardous Liquid Pipeline (NPMS, 2024).

Radon is a naturally occurring gas formed from the radioactive breakdown of radium in soil, rock, and water. Radon can move up through the ground and into living spaces through pathways and penetrations in a structure's foundation. Radon's potential presence in indoor air can only be

assessed within existing buildings, as there are no currently available real-time methods to assess Radon's presence over undeveloped properties.

The United States Environmental Protection Agency (USEPA) has developed the USEPA Map of Radon Zones to assist organizations in implementing radon-resistant building codes. The map assigns each county in the United States to one of three zones based on radon potential. The USEPA uses a continuous exposure level of 4.0 picoCuries per liter (pCi/L) as an action level at which additional action is recommended.

The USEPA Radon Zones are defined as:
Zone 1 (Highest Potential) — Average indoor radon screening level greater than 4 pCi/L.
Zone 2 (Moderate Potential) — Average indoor radon screening level between 2 and 4 pCi/L.
Zone 3 (Lowest Potential) — Average indoor radon screening less than 2 pCi/L.

According to information provided by Environmental Data Resources in the Radius Map Report, the Subject Property is located in Zone 2 (EDR,2024).

6.4 Previous Environmental Reports

UES did not receive or review any previous environmental reports pertaining to the subject property as part of this Phase I ESA.

6.5 State Regulatory Agency

The State Water Resources Control Board (SWRCB) publishes its records on the GeoTracker website. When records are unavailable on GeoTracker, UES directly contacts the SWRCB to request unpublished documents. UES reviewed information for facilities within the vicinity of the Subject Property on the GeoTracker website, which is an online interactive map database collecting information regarding Leaking Underground Fuel Tanks, Department of Defense sites, Spills-Leaks-Investigations-Cleanups (SLIC), and Landfill sites. This inquiry discovered two sites within half a mile of the Subject Property and surrounding area. Each of the two sites had the status of "Completed- Case Closed".

The Department of Toxic Substances Control (DTSC) publishes its records on the EnviroStor website. When records are unavailable on EnviroStor, UES directly contacts the DTSC to request unpublished documents. UES reviewed information for facilities within the vicinity of the Subject Property on the DTSC EnviroStor website and discovered zero records within the Subject Property and surrounding area.

The California Environmental Protection Agency (CalEPA) publishes its records on the CalEPA Regulated Site Portal. This portal combines data about environmentally regulated facilities and sites throughout California into a single, searchable database and interactive map. UES reviewed information for facilities within the vicinity of the Subject Property on the CalEPA Regulated Site Portal. This inquiry discovered zero sites within the property, but 25 sites within half a mile of the surrounding area. Additional information regarding the sites is provided in section 6.1

Name	Sierra Automotive
Address	731 North Chester Bakersfield, CA 93308
Facility ID	SWRCB Geotracker T060290012
Distance/Direction	199 feet to the southwest
Hydrologic Position	Down-gradient
Discussion	The facility identified is recognized as a LUST Cleanup site, with the status of Completed- Case Closed as of 12/14/1987. The leak was discovered and reported in November 1987. The potential contaminants of concern listed as diesel and the potential media of concern was listed as soil. Due to its status, the facility does not pose an environmental concern.

Name	AAA Tire Service
Address	1001 North Chester Avenue Bakersfield, CA 93308
Facility ID	SWRCB Geotracker T0602900429
Distance/Direction	557 feet to the north
Hydrologic Position	Up-gradient
Discussion	The facility identified is recognized as a LUST Cleanup site, with the status of Completed- Case Closed as of 5/6/1997. The leak was discovered and reported in 1991. The potential contaminants of concern listed as gasoline and the potential media of concern was listed as soil. Due to its status, the facility does not pose an environmental concern.

6.6 Local Health Agency

On August 8, 2024, an inquiry regarding inspections, complaints, spills, USTs, or other potential environmental issues in connection with the subject property was submitted via online public records request to Kern County Public Health. On August 9, 2024, Kern County Public Health personnel replied by email indicating that there were no records located for the property in question.

6.7 Fire Department

On August 8, 2024, an inquiry regarding inspections, complaints, spills, USTs, or other potential environmental issues in connection with the subject property was submitted via online public records request to the Bakersfield Records Request. On August 14, 2024, Bakersfield Fire Department personnel replied indicating that subject property was not located within City Jurisdiction.

6.8 California Environmental Protection Agency (CalEPA)

The California Environmental Protection Agency (CalEPA) publishes its records on the CalEPA Regulated Site Portal. This portal combines data about environmentally regulated facilities and sites throughout California into a single, searchable database and interactive map. UES reviewed information for facilities within the vicinity of the Subject Property on the CalEPA Regulated Site Portal. This inquiry discovered zero sites within the property, but 25 sites within half a mile of the surrounding area. Additional information regarding the sites is provided in section 6.1

7.0 SITE RECONNAISSANCE

On July 31, 2024, a site reconnaissance of the subject property was completed by Isabel Ramos of UES. UES was unescorted during the site reconnaissance. The purpose was to evaluate the current conditions of the subject property and to obtain information indicating the likelihood of identifying RECs in connection with the subject property.

The general subject property setting is characterized primarily by commercial development along North Chester Avenue to the north and residential development along Decatur Street to the West. At the time of UES's site reconnaissance, the subject property was comprised of vacant, paved lots.

7.1 Methodology

The reconnaissance included walking the accessible portions of the subject property and the subject property perimeter. This visual observation of the subject property focused primarily on its surface features. Adjoining properties were observed from curbside or property boundaries. Subject property uses and significant features observed during the site reconnaissance are indicated on the Aerial Photograph of Subject Property. Photographs taken during the site reconnaissance are provided in the Photographs Appendix.

SITE RECONNAISSANCE INFORMATION

INSPECTORS	Isabel Ramos
SITE RECONNAISSANCE DATE/TIME	July 31, 2024 @ 1:05 P.M
WEATHER CONDITIONS	Sunny
ASSESSMENT SITE CONTACT/TITLE	Maria Guzman
LIMITATIONS ENCOUNTERED	N/A

7.2 Observations During Reconnaissance

Please refer to the Site Reconnaissance Summary Table below for observations made by UES during the reconnaissance.

SITE RECONNAISSANCE SUMMARY

ITEM	OBSERVED
Potable Water Supply/Source	No
Sewage Disposal System	No
Hazardous Substances and Petroleum Products in Connection with Identified Uses	No
Storage Tanks (Includes aboveground storage tanks, or underground storage tanks, vent pipes, fill pipes, or access ways indicating underground storage tanks at the subject property)	No
Strong, Pungent, or Noxious Odors/Source	No
Drums, Totes, and Intermediate Bulk Containers	No
Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances of Petroleum Products	No
Hazardous Substances and Petroleum Products Containers Not in Connection With Identified Uses	No
Unidentified Substance Containers	No
Polychlorinated Biphenyls (PCB)-Containing Items (Electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs. Fluorescent light ballasts, caulk, paint, or other materials that may contain PCBs, and are located inside and are part of the building or structure, are outside the scope of this assessment)	No

ITEM	OBSERVED
Heating/Cooling Systems (The means of heating and cooling the building(s) on the subject property, including the fuel source)	No
Stains or Corrosion on Floors, Walls, or Ceilings (except for staining from water)	No
Drains and Sumps	No
Pits, Ponds, or Lagoons (manmade or natural depressions in a ground surface that are likely to hold liquids or sludge containing hazardous substances or petroleum products)	No
Stained Soil or Pavement	Yes
Stressed Vegetation (from something other than insufficient water)	No
Solid Waste (Areas that are apparently graded by non-natural causes (or filled with fill of unknown origin) suggesting trash, construction debris, demolition debris, or other solid waste disposal; and mounds or depressions suggesting trash or other solid waste disposal)	Yes
Waste/Wastewater (Wastewater or other liquid (including stormwater) discharged from or to the subject property)	No
Wells (including dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells, or other wells)	No
Septic Systems or Cesspools	No
Other Notable Features	Yes

Significant observations are summarized below:

- Utility poles are installed at the southeastern corner of the subject property and along the northern boundary.
- The eastern section of the subject property features a steel plate securely bolted to the concrete pad. Surrounding the steel plate is an unknown substance that appears to be soot or crushed asphalt debris.
- Situated to the south of the steel plate is an opening in the floor, suggesting the presence of an additional room beneath, potentially a basement. During the site reconnaissance conducted by UES, it was not possible to obtain a clearer view of the contents or condition of the subterranean room.

- The western portion of the subject property was primarily utilized as a parking lot for the building formerly situated in the eastern section of the property. The parking lot exhibits minor staining, likely resulting from oil drips from parked vehicles. Additionally, the area contains discarded clothing items, a mattress, and trash remnants.

7.3 Adjoining Properties

During the site reconnaissance, properties adjoining the subject property were observed from the subject property boundaries, without being entered, or from curbside, for possible sources of impacts or environmental impairment which could migrate to the subject property via surface water runoff, groundwater transport, or other pathways. The subject property is bordered by the following:

DESCRIPTION OF ADJOINING PARCELS

DIRECTION	DESCRIPTION
North	To the north of the subject property is an alleyway, quadruplex unit apartment buildings, and a commercial building occupied by a restaurant and liquor store.
East	North Chester Avenue, a professional building, and a large vacant lot is noted across the road.
South	Decatur Street; across the street are single-family residential homes and a dental office suite.
West	Single-family residential homes.

Reconnaissance of the publicly accessible portions of the properties located immediately adjoining to the subject property did not reveal visible evidence of environmental concerns that could potentially impact the subject property.

8.0 INTERVIEWS

As part of this Phase I ESA, interviews were conducted to obtain information indicating recognized environmental conditions in connection with the Subject Property. The following persons or agencies were contacted for interviews in an effort to obtain information regarding the Subject Property. Interview records and/or requests for information are presented in the Interview Documentation Appendix.

An environmental (or owner) questionnaire was submitted to Maria Guzman by Isabel Ramos of UES on August 6, 2024. The questionnaire was completed by Ganesh Acharya, who is identified as Chief Finacial Officer (CFO) for Truxton Psychiatric Medical Group, LP of the Subject Property. The questionnaire was intended to gather information from the current owner regarding the past uses of

the Subject Property and its adjoining properties. The responses indicate that the representative was not aware of potential environmental concerns associated with the Subject Property or adjoining sites.

No information regarding past owners, operators, or occupants was received by UES during the preparation of this report.

UES contacted the Kern County Public Health Department and the Bakersfield Public Records Request (Fire Department) to fulfill the local government interview requirements.

UES also contacted the SWRCB GeoTracker, CalEPA Regulated Site Portal, and DTSC EnviroStor to meet the state governmental agency interview requirements.

8.1 State Regulatory Agency

The State Water Resources Control Board (SWRCB) publishes its records on the GeoTracker website. When records are unavailable on GeoTracker, UES directly contacts the SWRCB to request unpublished documents. UES reviewed information for facilities within the vicinity of the Subject Property on the GeoTracker website, which is an online interactive map database collecting information regarding Leaking Underground Fuel Tanks, Department of Defense sites, Spills-Leaks-Investigations-Cleanups (SLIC), and Landfill sites. This inquiry discovered two sites within half a mile of the Subject Property and surrounding area. Each of the two sites had the status of "Completed- Case Closed".

The Department of Toxic Substances Control (DTSC) publishes its records on the EnviroStor website. When records are unavailable on EnviroStor, UES directly contacts the DTSC to request unpublished documents. UES reviewed information for facilities within the vicinity of the Subject Property on the DTSC EnviroStor website and discovered zero records within the Subject Property and surrounding area.

The California Environmental Protection Agency (CalEPA) publishes its records on the CalEPA Regulated Site Portal. This portal combines data about environmentally regulated facilities and sites throughout California into a single, searchable database and interactive map. UES reviewed information for facilities within the vicinity of the Subject Property on the CalEPA Regulated Site Portal. This inquiry discovered zero sites within the property, but 25 sites within half a mile of the surrounding area. Additional information regarding the sites is provided in section 6.1

8.2 Local Health Agency

On August 8, 2024, an inquiry regarding inspections, complaints, spills, USTs, or other potential environmental issues in connection with the subject property was submitted via online public records request to Kern County Public Health. On August 9, 2024, Kern County Public Health personnel replied by email indicating that there were no records located for the property in question.

8.3 Fire Department

On August 8, 2024, an inquiry regarding inspections, complaints, spills, USTs, or other potential environmental issues in connection with the subject property was submitted via online public records request to the Bakersfield Records Request. On August 14, 2024, Bakersfield Fire Department personnel replied indicating that subject property was not located within City Jurisdiction.

9.0 DEVIATIONS

UES has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice. To the best of our knowledge, there have not been deviations from the ASTM E1527-21 standard.

10.0 NON-SCOPE CONSIDERATIONS

No other services beyond the Phase I ESA were authorized by the User (or client) as part of this assessment and none were conducted. Additional services can be provided upon request at an additional fee.

11.0 FINDINGS AND OPINIONS

11.1 General Findings

- The Subject Property is located at 801/805 N Chester Avenue and 106/108 Decatur Avenue Bakersfield Kern CA (Figures 1, 2, and 4) and is approximately 0.48 acres of land compromised of 4 contiguous parcels that are paved and vacant. The Subject Property is identified by Kern County Assessor's Parcel Number (APN) 113-280-11, -12, -13, & -14.
- The historical land use research dating back to the early 19000s revealed that the Subject Property was undeveloped in 1906. The western portion of the Subject Property was occupied by residential homes from at least 1930 until 1973; by 1984 the western portion remained vacant and utilized as a parking lot. The eastern portion of the subject property was occupied by at least two buildings in 1937, but from 1942 to at least 2020 the eastern portion was

occupied by one large building. The Subject Property was part of Trouts Nightclub from at least 1951 to at least 2017. The building on the eastern portion of the subject property was burnt down in 2022 and has since remained vacant.

- Given the documentation reviewed concerning the agency listings for neighboring facilities, none of the facilities reviewed is likely to have a negative impact on the Subject Property.
- Based on the completion of the vapor encroachment condition (VEC) screening matrix, UES concludes a VEC can be ruled out because a VEC does not or is not likely to exist.
- The properties adjacent to the Subject Property to the west, southwest, and northwest have been developed for single-family residential use since at least the 1930s and continue to serve this purpose today. To the north and south of the Subject Property, commercial buildings have been present from at least 1952 and remain in use. North Chester Avenue has been developed since 1906, while Decatur Avenue has been developed since 1930.
- According to the information provided by EDR, two separate dry-cleaning facilities operated on the subject property during the years 1955 and 1970. The facilities were operational before the environmental risks of PCE (perchloroethylene) were understood and before regulations for handling and disposal were in place. While there are no documented spills or releases, there are also no records of any remediation efforts conducted at the site prior to its redevelopment. Further investigation is warranted due to the potential environmental risks historically associated with dry cleaning operations.

11.2 Recognized Environmental Conditions

Amendment to Phase I Environmental Site Assessment (ESA)

- **Amendment Date:** October 2, 2024
- **Reason for Amendment:** Updated information regarding Per- and Polyfluoroalkyl Substances (PFAS) and Asbestos-Containing Materials (ACMs).
- **Summary of Changes:**
  - **PFAS Concerns:** New documentation from the Kern County Fire Department indicates that no firefighting foam was used to extinguish the fire on the Subject Property—only water was used.
  - **Asbestos-Containing Material:** A post-fire asbestos survey conducted by the owner identified asbestos only in vinyl flooring. It is assumed that the necessary precautions were taken during demolition.
- **Impact on Conclusions: Based** on these updates, the following concerns are no longer classified as Recognized Environmental Conditions (RECs):
  - **PFAS Concerns:** PFAS from firefighting foam was originally considered a REC. However, the absence of foam use removes this concern.

- **ACMs:** While the fire and demolition could have released these materials, the owner's asbestos survey and remediation efforts have mitigated these concerns.

This Phase I ESA has revealed evidence of the following Recognized Environmental Conditions:

Recognized Environmental Conditions (REC)

- **Subterranean Room:** The lack of access or documentation regarding a potential subterranean room beneath the eastern portion of the property presents a REC. The unknown contents and condition of this space raise concerns about possible environmental risks.
- **Polycyclic Aromatic Hydrocarbons (PAHs):** The fire that destroyed the previous building may have introduced PAHs, hazardous compounds formed during combustion, to the site. These persistent environmental risks constitute a REC.
- **Lead-based Paints:** Due to the age of development on the property, lead-based paints were likely used. The fire and subsequent demolition may have released these materials, making it a REC.

11.3 Historical Recognized Environmental Conditions

No Historical Recognized Environmental Conditions were found for the subject property.

11.4 Controlled Recognized Environmental Conditions

No Controlled Recognized Environmental Conditions were found for the subject property.

11.5 Vapor Encroachment Conditions

No vapor encroachment conditions were found for the subject property.

11.6 Business Environmental Risk

Phase I ESA findings characterized certain business environmental risks as defined by ASTM E 1527-21. These risks may warrant further research or assessment specific to prospective land use, pending construction work, and the risk tolerance of the User. Phase I ESA findings did not characterize any business environmental risks as defined by ASTM E 1527-21.

11.7 Data Gaps

As defined in ASTM E1527-21 a data gap is "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." Significant data gaps that would have impacted our ability to identify RECs were not encountered as part of our Phase I ESA.

12.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-21 of 801/805 N Chester Avenue and 106/108 Decatur Avenue Bakersfield Kern County, CA, the subject property. Any exceptions to, or deletions from, this practice are described in Section 9.0 of this report. This assessment has revealed the following recognized environmental conditions, controlled recognized environmental conditions, and/or significant data gaps in connection with the subject property:

Amendment to Phase I Environmental Site Assessment (ESA)

- **Amendment Date:** October 2, 2024
- **Reason for Amendment:** Updated information regarding Per- and Polyfluoroalkyl Substances (PFAS) and Asbestos-Containing Materials (ACMs).
- **Summary of Changes:**
    - **PFAS Concerns:** New documentation from the Kern County Fire Department indicates that no firefighting foam was used to extinguish the fire on the Subject Property—only water was used.
    - **Asbestos-Containing Material:** A post-fire asbestos survey conducted by the owner identified asbestos only in vinyl flooring. It is assumed that the necessary precautions were taken during demolition.
- **Impact on Conclusions: Based** on these updates, the following concerns are no longer classified as Recognized Environmental Conditions (RECs):
    - **PFAS Concerns:** PFAS from firefighting foam was originally considered a REC. However, the absence of foam use removes this concern.
    - **ACMs:** While the fire and demolition could have released these materials, the owner's asbestos survey and remediation efforts have mitigated these concerns.

Recognized Environmental Conditions (REC)

- **Subterranean Room:** The lack of access or documentation regarding a potential subterranean room beneath the eastern portion of the property presents a REC. The unknown contents and condition of this space raise concerns about possible environmental risks.
- **Polycyclic Aromatic Hydrocarbons (PAHs):** The fire that destroyed the previous building may have introduced PAHs, hazardous compounds formed during combustion, to the site. These persistent environmental risks constitute a REC.

- **Lead-based Paints:** Due to the age of development on the property, lead-based paints were likely used. The fire and subsequent demolition may have released these materials, making it a REC.

13.0 ADDITIONAL INVESTIGATION

As required in ASTM E1527-21, the EP should provide an opinion regarding additional appropriate investigation, if any, to detect the presence of hazardous substances or petroleum products. This opinion is not intended to constitute a requirement that the EP include any recommendations for Phase II or other assessment activities. Accordingly, any opinions expressed herein do not necessarily constitute a recommendation for further investigation. UES would be pleased to discuss recommendations for any additional investigation or evaluations with you outside of the context of this report.

14.0 QUALIFICATIONS

Resumes of the staff and EPs who performed this Phase I ESA of the subject property are included in the Resumes Appendix and included the following personnel:

- Site Inspector - Isabel Ramos, Staff Scientist
- Author - Isabel Ramos, Staff Scientist
- Senior Reviewer/Environmental Professional - Dean R. Stanphill, PE, GE, CEM, California Director of Engineering

15.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

To the best of our professional knowledge and belief, we declare that this Phase I ESA has been prepared and reviewed under the guidance of UES staff, meeting the definition of Environmental Professional (EP) as defined in 312.10 of 40 CFR 312. UES EPs have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all-appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes of the Environmental Professionals utilized in performance of this Phase I ESA are attached in Appendix.

Universal Engineering Sciences (UES)

Isabel Ramos
Staff Scientist

Reviewed by:
I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances.

Dean Stanphill, PE, GE, CEM
California Director of Engineering

16.0 REFERENCES

References

Source Reviewed	Source Details
ASTM International, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E1527-21.	
California Environmental Protection Agency. *CalEPA Regulated Site Portal*.	https://siteportal.calepa.ca.gov/nsite/map/results
Department of Toxic Substances Control (DTSC), EnviroStor	(August 2024).
Department of Water Resources (DWR), Water Data Library	(August 2024).
EDR Aerial Photo Decade Package (Inquiry Number 7719431.8S) Ship Date: July 29th, 2024	EDR, 6 Armstrong Road, Shelton, CT 06484, (800) 352-0050.
EDR City Directory Abstract (Inquiry Number 7719431.5S) Ship Date: July 29th, 2024	EDR, 6 Armstrong Road, Shelton, CT 06484, (800) 352-0050.
EDR Historical Topo Map (Inquiry Number 7719431.4S) Ship Date: July 29th, 2024	EDR, 6 Armstrong Road, Shelton, CT 06484, (800) 352-0050.
EDR Sanborn Map Search/Print (Inquiry Number 7719431.3S) Ship Date: July 29th, 2024	EDR, 6 Armstrong Road, Shelton, CT 06484, (800) 352-0050.
EDR Radius Map Report (Inquiry Number 7719431.2S) Ship Date: July 29th, 2024	EDR, 6 Armstrong Road, Shelton, CT 06484, (800) 352-0050.
Kern County. (2024). *Kern County public map viewer*. Kern County GIS.	https://maps.kerncounty.com/H5/index.html?viewer=KCPublic
National Pipeline Mapping System, 2024, (NPMS)	https://www.npms.phmsa.dot.gov/ (August 2024)
State of California, Department of Conservation, Geologic Energy Management Division (CalGEM), *Well Finder* website	https://maps.conservation.ca.gov/doggr/wellfinder (August 2024).
State Water Resources Control Board (SWRCB), GeoTracker	/ (August 2024).
United States Department of Agriculture, Natural Resources Conservation Service, *Web Soil Survey,*	http://soils.usda.gov/technical/classification/osd/index.html (August 2024).