2024 Q1 SUMMA CANISTER REPORT COMMERCE CITY NORTH DENVER COMMUNITY AIR MONITORING NETWORK COMMERCE CITY, COLORADO

Prepared For:

Suncor Energy (U.S.A.) Inc. 5801 Brighton Boulevard Commerce City, CO 80022

Prepared By:

Montrose Air Quality Services, LLC 990 W 43rd Avenue Denver, CO 80211

Document Number: **317AA-032669-RT-220**

Report Period: February 22, 2024 (Q1, 2024)

Report Date: May 12, 2024



TABLE OF CONTENTS

SE	CTION	AGE
EXE	ECUTIVE SUMMARY	3
1.0	INTRODUCTION	4
	1.1 Air Monitoring Site Description	4
2.0	METHODS	8
	2.1 Air Sampling Methods	8
	2.2 Screening Health Risk Assessment Methods	9
3.0	RESULTS	11
	3.1 Summary of Air Sampling Results	
	3.2 Screening Health Risk Assessment Results	
	3.3 Uncertainty Evaluation	
4.0	PROGRAM CHANGES	18
LIS	T OF APPENDICES	
Α	SAMPLE CHAIN OF CUSTODIES	
В	AIR SAMPLING RESULTS AND SCREENING RISK ASSESSMENT	
LIS	T OF TABLES	
1-1	CCND MONITORS AND SUMMA CANISTER SAMPLING LOCATIONS	7
1-2	SUMMA CANISTER REFERENCE LOCATIONS	8
1-3	SELECTED COMPOUNDS MEASURED IN SUMMA CANISTERS	9
1-4	NOVEMBER 2, 2023 (Q4) PLANNED AIR SAMPLE DETECTION SUMMARY – CCNE MONITORING LOCATIONS (ALL RESULTS IN PARTS PER BILLION BY VOLUME)) 12
1-5	NOVEMBER 2, 2023 (Q4) PLANNED AIR SAMPLE DETECTION SUMMARY – REFERENCE LOCATIONS (ALL RESULTS IN PARTS PER BILLION BY VOLUME)	13
1-6	NOVEMBER 2, 2023 (Q4) CCND SUMMA CANISTER SCREENING RISK ANALYSIS COMPOUND-SPECIFIC HAZARD QUOTIENTS FOR PLANNED AIR SAMPLES – CC MONITORING SITES	ND
1-7	NOVEMBER 2, 2023 (Q4) CCND SUMMA CANISTER SCREENING RISK ANALYSIS COMPOUND-SPECIFIC HAZARD QUOTIENTS FOR PLANNED AIR SAMPLES – REFERENCE SITES	
LIS	T OF FIGURES	
1-1	MAP OF TEN CCND MONITOR LOCATIONS	5
1-2	MAP OF TWO NON-CCND COMMUNITY MONITORING (URBAN AND RURAL BACKGROUND) SITES: E470/I25 (JUNC) AND BRIGHTON FIRE DEPARTMENT (BF	D6
FIG	GURE 1-3 NOVEMBER 2, 2023 (Q4) - HAZARD INDEX BY AIR SAMPLING LOCATI FOR ALL PLANNED AIR SAMPLES	

EXECUTIVE SUMMARY

In response to feedback received by Suncor Energy (U.S.A.) Inc. (Suncor) through community engagement conducted in the fall of 2020, Suncor voluntarily committed to developing a continuous, near real-time air monitoring program to gain insight into air quality for neighborhoods in the vicinity of the Suncor refinery in Commerce City, Colorado. Montrose Environmental Group - Air Quality Services, LLC (Montrose) was contracted by Suncor to deploy, operate, and maintain the network in the Commerce City and North Denver (CCND) neighborhoods. Air monitoring was accomplished through three separate technical approaches: (1) continuous, near real-time monitoring for the following analytes: carbon monoxide (CO), sulfur dioxide (SO₂), hydrogen sulfide (H₂S), nitrogen oxide or nitric oxide (NO), nitrogen dioxide (NO₂), particulate matter (PM_{2.5}), and total volatile organic compounds (VOCs); (2) periodic collection and laboratory analysis for the presence of specific VOCs from 6-liter evacuated stainless steel ("Summa") canisters; and (3) periodic real-time air monitoring throughout entire neighborhoods using a mobile monitoring van to detect presence of specific VOCs. An "analyte" is a material that a measuring device is designed to detect and measure. It may be a chemical gas, an airborne particle, or other type of material. This report details approach number two, the periodic collection and laboratory analysis of Summa canister air samples and a screening health risk analysis. Continuous, near real-time air monitoring and mobile monitoring van data are presented in separate reports.

Planned air samples were collected during the first quarter of 2024. A total of 13 planned air samples (1-hour) were collected by field technicians. Ten samples were collected from locations within the CCND neighborhoods; an additional three samples were collected from non-CCND community monitoring reference sites (urban and rural background) that were chosen for the sampling campaign. All air samples were collected using Summa canisters and sent to an accredited laboratory for analysis of a broad suite of VOCs in accordance with the United States Environmental Protection Agency (USEPA) methods TO-15 and TO-14A.

Health scientists from CTEH, LLC (CTEH®) (a subsidiary company of Montrose) performed a screening-level human health risk assessment based on the data collected by Montrose. A screening-level assessment uses the most health-conservative assumptions about exposure and chemical toxicity. This risk assessment was conducted to determine whether measured concentrations of individual or cumulative (combined risk) VOCs could potentially cause acute (short-term) adverse health effects. The health risk calculations described in this report were performed per federal and state guidance. The risk assessment resulted in the following overall findings:

- All measured individual and cumulative air concentrations of VOCs in planned air samples collected on February 22, 2024, at CCND and reference locations were below their respective acute health-based reference levels.
- All measured concentrations of VOCs are likely to be without an appreciable risk of adverse acute health effects, even for sensitive sub-populations.

1.0 INTRODUCTION

In response to feedback received by Suncor Energy (U.S.A.) Inc. (Suncor) through community engagement conducted in the fall of 2020, Suncor voluntarily committed to developing a continuous, near real-time air monitoring program to gain insight into air quality for neighborhoods in the vicinity of the Suncor refinery in Commerce City, Colorado. Montrose Environmental Group - Air Quality Services, LLC (Montrose) was contracted by Suncor to deploy, operate, and maintain the network in the Commerce City and North Denver (CCND) neighborhoods. Air monitoring was accomplished through three separate technical approaches: (1) continuous, near real-time monitoring for the following analytes: carbon monoxide (CO), sulfur dioxide (SO₂), hydrogen sulfide (H₂S), nitrogen dioxide (NO₂), particulate matter (PM_{2.5}), and total volatile organic compounds (VOCs); (2) periodic collection and laboratory analysis for the presence of specific VOCs from Summa canisters; and (3) periodic real-time air monitoring throughout neighborhoods using a mobile monitoring van to detect presence of specific VOCs. An "analyte" is a material that a measuring device is designed to detect and measure. It may be a chemical gas, an airborne particle, or other type of material. This report details approach number two (Summa canister sampling and analysis). The continuous near real-time air monitoring and mobile monitoring van data are presented in separate reports. Air monitoring, sampling, and analysis from all three approaches were conducted in accordance with the Quality Assurance Project Plan (QAPP) and are available online at www.ccnd-air.com/documents.

1.1 Air Monitoring Site Description

Ten Summa canister samples were collected from the CCND neighborhoods within a three-mile radius of the refinery operations. The monitor locations are shown in Figure 1-1 and described in Table 1-1; they were selected based on the following criteria:

- Historical wind pattern data
- Proximity to the refinery and non-refinery sources
- Existing infrastructure, as well as site access and safety
- Community feedback

An additional three planned air samples were collected at non-CCND community monitoring sites (reference locations), in both urban and rural locations (Figure 1-2 and Table 1-2). These locations were at the E470-I25 Junction (JUNC), the Brighton Fire Department (BFD), and at the National Jewish Health (NJH) hospital. The JUNC and BFD monitoring locations were chosen as rural background locations about 13 miles north of the CCND network. The NJH location was selected as a representative urban location that has comparative data collected by CDPHE.



FIGURE 1-1
MAP OF TEN CCND MONITOR LOCATIONS

5

FIGURE 1-2
MAP OF THREE NON-CCND COMMUNITY MONITORING (URBAN AND RURAL BACKGROUND) SITES: E470/I25 (JUNC) BRIGHTON FIRE DEPARTMENT (BFD) AND NATIONAL JEWISH HEALTH (NJH)

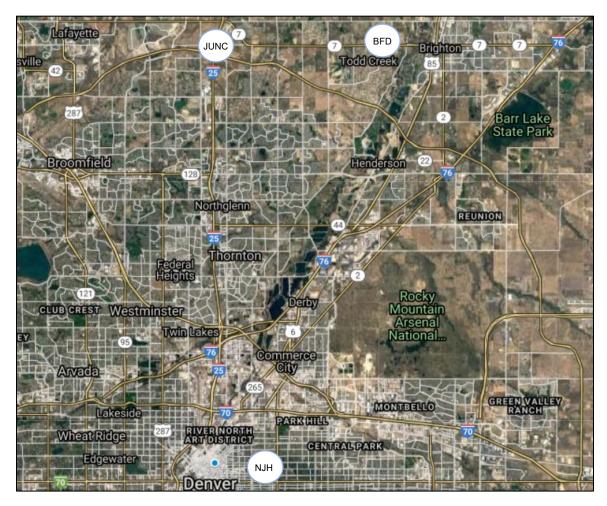


TABLE 1-1CCND MONITORS AND SUMMA CANISTER SAMPLING LOCATIONS

Location ID	Secondary ID	GPS Coordinates	Distance from Refinery Center (miles)	Cross Streets
Location ib	Occordary ID	Of 6 Good annates	(IIIIC3)	01033 0110013
CM1	Rose Hill Elementary School	39.80164, -104.90882	2.0	E. 58 th Ave. & Oneida St., Commerce City
CM2	Suncor Refinery Business Center	39.79623, -104.95727	0.70	Brighton Blvd. & York St., Commerce City
СМЗ	Adams City High School	39.82736, -104.90193	2.9	E. 72 nd Ave. & Quebec Pkwy, Commerce City
CM4	Adams City Middle School	39.82893, -104.93499	1.9	Birch St. & E. 72 nd Ave., Commerce City
CM5	Central Elementary School	39.81457, -104.91928	1.7	Holly St. & E. 64 th Ave., Commerce City
CM6	Focus Points Family Resource Center	39.78436, -104.95663	1.4	Columbine St. & 48 th Ave., Denver
CM7	Kearney Middle School	39.80888, -104.91545	1.7	E. 62 nd Ave. & Kearney St., Commerce City
CM8	Monroe	39.8156, -104.94503	0.85	Monroe St. & E. 64 th Ave., Denver
CM9	48 th and Race	39.78455, -104.96264	1.7	East 48 th Ave. & Race St., Denver
CM10	Alsup Elementary School	39.82026, -104.93663	1.3	East 68 th Ave. & Birch St., Commerce City

TABLE 1-2
SUMMA CANISTER REFERENCE LOCATIONS

Location ID	Secondary ID	GPS Coordinates	Distance from Refinery Center (miles)	Cross Streets
JUNC¹	E470/I25	39.98614, -104.98468	12.8	E. 160 th & Washington St., Thornton
BFD	Brighton	39.98512, -104.86665	13.1	Havana St. & Havana Way, Brighton
NJH	National Jewish Health	39.73904, -104.94215	4.10	Colorado Blvd. & East 14th Ave

2.0 METHODS

2.1 Air Sampling Methods

Planned air samples were collected during the first quarter of 2024 on February 22,2024. Entech Instruments Silonite™ CS1200E Passive Canister Samplers connected to 6-liter chemically inert stainless steel ("Summa") canisters were used to collect samples over a 1-hour period. The Summa canisters were cleaned and blanked for use according to laboratory standard operating procedures. Planned air samples were collected by a field technician by manually opening and closing the Summa canister's regulator valve during a time when real-time instruments indicated total VOC concentrations to be less than the 1-ppm trigger level. All sampling and quality assurance procedures were performed by Montrose. All Summa canister field sampling followed the Standard Operating Procedure (SOP) provided in the QAPP.

The canister samples were shipped to Enthalpy Analytical in Durham, North Carolina. The United States Environmental Protection Agency (USEPA) Compendium Method TO-14A "Determination of Volatile Organic Compounds (VOCs) in Ambient Air using Specially Prepared Canisters with Subsequent Analysis by Gas Chromatography" and TO-15 entitled "Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)" were followed for both sampling and analysis methodology. A total of 59 analytes were selected for analysis in this assessment, based on the typical suite of compounds monitored for in urban and industrial areas, accounting for laboratory analysis capabilities (Table 1-3).

8

TABLE 1-3SELECTED COMPOUNDS MEASURED IN SUMMA CANISTERS

Ethylene	Isopentane	3-Methylpentane	3-Methylheptane	2,4- Dimethylpentane
Acetylene	1-Pentene	1-Hexene	Nonane	2,3-
Ethane	Pentane	1,3-Butadiene	3-Ethyltoluene	Dimethylpentane 1,2,3- Trimethylbenzene
Propylene	Isoprene	Heptane	2-Ethyltoluene	1,3,5- Trimethylbenzene
Propane	Trans-2-Pentene	2-Methylhexane	Decane	2,2,4- Trimethylpentane
Isobutane	Cis-2-Pentene	Toluene	Ethylbenzene	Tetrachloroethene
1-Butene	2,2- Dimethylbutane	3-Methylhexane	m-Diethylbenzene	1,2,4- Trimethylbenzene
Butane	Cyclopentane	Methylcyclohexane	p-Diethylbenzene	Methylcyclopentane
Trans-2-Butene	Cyclohexane	Hexane	Undecane	2,3,4- Trimethylpentane
Cis-2-Butene	2-Methylpentane	2-Methylheptane	Dodecane	2,3-Dimethylbutane
m-/p-Xylenes	o-Xylene	4-Ethyltoluene	Benzene	Carbon disulfide
n-Octane	Isopropylbenzene	n-Propylbenzene	Naphthalene	

2.2 Screening Health Risk Assessment Methods

CTEH® conducted a screening-level public health risk assessment, consistent with federal and state risk assessment guidelines, to determine whether exposure to the detected concentrations of individual or cumulative (combined) analytes in the air could potentially pose acute (short-term) health impacts. A tiered approach to the risk assessment was used. This approach involves one or more iterative steps (or tiers) being performed in which health risks are calculated and evaluated multiple times. In most cases, risk assessors cannot know exactly the level of chemical exposure experienced by individuals or communities. Therefore, the first tier involves use of exposure assumptions that are health-conservative. This means that data reflecting maximum exposure potential are plugged into the risk calculations. These are worst-case scenarios that typically represent exposure conditions higher than would be reasonably expected. Such calculations are very simple and assume a person is constantly exposed to the highest measured chemical level. If the resulting risk values indicate the lack of likely adverse health effects under these worst-case conditions, then the risk assessment is complete. However, if the risk values suggest a potential for adverse health effects, then a second tier of risk calculations are performed, but this time using more detailed assumptions about exposure that are still simple

CCND Community Monitoring February 22, 2024 (Q1 2024)

representations of the real world but are more realistic than the first tier worst-case assumptions. Each successive tier represents a more complete characterization of exposure variability and/or uncertainty that requires a corresponding increase in calculation complexity and scientific level of effort.

The first tier of this risk assessment process is called a screening-level risk assessment. The conservative assumptions used for this level of risk calculation typically represent exposure conditions higher than would be reasonably expected. As such, an exceedance of an acceptable risk level (defined below) does not necessarily indicate that adverse health effects are likely. The Agency for Toxic Substances and Disease Registry (ATSDR) states, "when health assessors find exposures higher than the MRLs (ATSDR's specific health-based reference levels), it means that they may want to look more closely at a site"². In other words, screening-level findings of an estimated exposure to a VOC being higher than a health-based reference level do NOT indicate an actual likelihood of adverse effects but do indicate a need to move to a second tier of analysis and refine the risk assessment process with more realistic detail to determine if an actual risk exists that needs to be mitigated.

The screening-level risk assessment reported here includes calculated risks from exposure to individually measured chemicals as well as exposure to all measured chemicals at once (cumulative). For individual chemicals, an acute health risk value was calculated as the exposure concentration (EC) divided by the chemical-specific federal or state established acute Reference Levels (RL) (Equation 1). The result is referred to as the hazard quotient (HQ). Estimates of EC were derived from the 1-hour average concentrations of each analyte. Using the average for the EC conservatively assumes that a hypothetical maximally exposed individual occupies the sampling location area and breathes the 1-hour detected concentration continuously for an hour up to multiple days (an acute exposure). The RLs used to calculate the HQs are previously established exposure levels below which no adverse effect in humans is expected. If available, RLs adopted by the Colorado Department of Public Health and Environment (CDPHE) were selected for use within this assessment and include ATSDR acute minimum risk levels (MRL), California EPA Office of Environmental Health Hazard Assessment (OEHHA) acute risk levels. and Texas Commission on Environmental Quality (TCEQ) acute exposure screening levels (acute ESL) or Reference Value (ReVs)3. If the analyte was not listed by CDPHE, CTEH® followed a federal and state recommended hierarchy for selection of health-based reference levels4.

Acute HQs were calculated as follows:

Eq. 1 – Hazard Quotient (HQ) Equation

HQ = EC/RL

Where:

HQ= Hazard Quotient

EC= 1-hour average air concentration

RL= Acute Health-based Reference Level (ATSDR, Cal EPA OEHHA, and TCEQ)

²https://www.atsdr.cdc.gov/minimalrisklevels/#:~:text=The%20ATSDR%2C%20in%20response%20to,minimal%20risk%20levels%2 0(MRLs).

³ https://drive.google.com/file/d/1P2KEvu0MFiyzQAOQtjQUclqR-WGh1bEX/view

⁴ https://www.epa.gov/sites/default/files/2015-11/documents/hhmemo.pdf

CCND Community Monitoring February 22, 2024 (Q1 2024)

Health risks from potential cumulative exposures to all detected analytes were calculated by adding together each individual analyte's HQ calculated for a given sampling location. This sum of all the individual HQs is called a Hazard Index (HI). Adding together all the HQs is also a very health-conservative approach because it assumes that all the measured analytes exert an adverse effect on the body in a similar manner, which is rarely the case.

An HQ or HI of less than or equal to one is an indication that the estimated exposure is likely to be without an appreciable risk of adverse health effects, even for sensitive sub-populations. The potential for adverse health effects increases as HQ or HI increase above one, but it is not known by how much. HQ or HI values of greater than one would prompt a second-tier risk assessment beyond the screening-level assessment.

According to the USEPA and ATSDR, the federal agencies that establish these reference levels, these values "are set below levels that, based on current information, might cause adverse health effects in the people most sensitive." This is because RLs are based on observed toxicity in human or animal studies with an added safety factor to account for uncertainties in the toxicity data. For example, ATSDR identified the lowest observed adverse effect level (LOAEL) for acute exposure to benzene as 10,200 parts per billion (ppb), based on a study of mice exposed six hours per day for six days. ATSDR then applied a combined safety factor of 300 to derive the final RL to account for several uncertainties, including differences between mice and humans and for sensitive individuals. Therefore, it is scientifically incorrect to assume that all real-world exposures to a chemical at levels higher than a RL will likely result in an adverse effect.

The USEPA also has established values for use in emergency situations, termed Acute Exposure Guideline Levels (AEGLs). Unlike health-based reference levels that can be thousands of times below exposure levels where adverse effects are observed, AEGL values are levels at which different acute adverse health effects may be anticipated to occur. According to USEPA, "AEGL-1 represent exposure levels that could produce mild and progressively increasing but transient and non-disabling odor, taste, and sensory irritation or certain asymptomatic, non-sensory effects. With increasing airborne concentration above each AEGL, there is a progressive increase in the likelihood of occurrence and the severity of effects described for each corresponding AEGL [i.e., AEGL-2 or AEGL-3]." The AEGL-1 60-minute value, if available for the applicable compound, was provided for comparison purposes because it is more precautionary (than AEGL-2 or AEGL-3) as the AEGL-1 level reflects potential health impacts that are reversible upon cessation of exposure.

3.0 RESULTS

3.1 Summary of Air Sampling Results

A total of 13, one-hour planned air samples were collected during the first quarter of 2024. Ten samples were collected from CCND sampling locations and three were collected from reference locations. Summary details are presented in Tables 1-4 and 1-5, and additional details are available in Appendix A and Appendix B.

TABLE 1-4FEBRUARY 22, 2024 (Q1) PLANNED AIR SAMPLE DETECTION SUMMARY – CCND MONITORING LOCATIONS (ALL RESULTS IN PARTS PER BILLION BY VOLUME)

Compound Name	Cas No	# Samples	# Detections	Range of Detections (ppb)
1-Butene	106-98-9	10	9	0.0600 - 0.2500
1-Hexene	592-41-6	10	0	< 0.0380 - < 0.0440
1-Pentene	109-67-1	10	6	0.0500 - 0.1500
1,2,3-Trimethylbenzene	526-73-8	10	5	0.0640 - 0.1100
1,2,4-Trimethylbenzene	95-63-6	10	10	0.0430 - 0.1900
1,3-Butadiene	106-99-0	10	6	0.0510 - 0.1200
1,3-Diethylbenzene	141-93-5	10	3	0.0380 - 0.1300
1,3,5-Trimethylbenzene	108-67-8	10	2	0.0530 - 0.0580
1,4-Diethylbenzene	105-05-5	10	5	0.0460 - 0.0690
2-Ethyltoluene	611-14-3	10	2	0.0470 - 0.0570
		10	4	
2-Methylheyane	592-27-8		8	0.0530 - 0.1000
2-Methylhexane	591-76-4	10		0.1400 - 0.3100
2-Methylpentane	107-83-5	10	10	0.2000 - 1.2000
2,2-Dimethylbutane	75-83-2	10	5	0.0640 - 0.1400
2,2,4-Trimethylpentane	540-84-1	10	10	0.0620 - 0.2600
2,3-Dimethylbutane	79-29-8	10	4	0.1200 - 0.2700
2,3-Dimethylpentane	565-59-3	10	8	0.0710 - 0.2100
2,3,4-Trimethylpentane	565-75-3	10	1	0.0760
2,4-Dimethylpentane	108-08-7	10	2	0.0700 - 0.1800
3-Ethyltoluene	620-14-4	10	9	0.0500 - 0.1800
3-Methylheptane	589-81-1	10	9	0.0710 - 0.1400
3-Methylhexane	589-34-4	10	10	0.1200 - 0.4500
3-Methylpentane	96-14-0	10	10	0.1400 - 0.7700
4-Ethyltoluene	622-96-8	10	1	0.0550
Acetylene	74-86-2	10	10	0.7900 - 2.1000
Benzene	71-43-2	10	10	0.1900 - 0.5200
Butane	106-97-8	10	10	1.7000 - 21.0000
Carbon disulfide	75-15-0	10	1	0.0400
		10	6	0.0680 - 0.3100
Cis-2-Butene	590-18-1			
Cis-2-Pentene	627-20-3	10	2	0.1200 - 0.1300
Cyclohexane	110-82-7	10	10	0.0500 - 0.2600
Cyclopentane	287-92-3	10	6	0.0900 - 0.2500
Decane	124-18-5	10	5	0.0520 - 0.1300
Dodecane	112-40-3	10	8	0.0380 - 0.1700
Ethane	74-84-0	10	10	14.0000 - 38.0000
Ethylbenzene	100-41-4	10	10	0.0540 - 0.1600
Ethylene	74-85-1	10	10	1.4000 - 7.1000
Heptane	142-82-5	10	10	0.0750 - 0.4600
Hexane	110-54-3	10	10	0.2300 - 1.5000
Isobutane	75-28-5	10	10	0.6800 - 5.8000
Isopentane	78-78-4	10	10	0.6400 - 8.8000
Isoprene	78-79-5	10	3	0.0400 - 0.0640
Isopropylbenzene	98-82-8	10	0	< 0.0290 - < 0.0340
m,p-Xylenes	179601-23-1	10	10	0.1500 - 0.5200
Methylcyclohexane	108-87-2	10	8	0.1200 - 0.4300
Methylcyclopentane	96-37-7	10	10	0.1100 - 0.5800
n-Octane	111-65-9	10	8	0.0620 - 0.1900
Naphthalene	91-20-3	10	0	< 0.0480 - < 0.0560
Nonane	111-84-2	10	7	0.0450 - 0.1200
o-Xylene	95-47-6	10	10	0.0430 - 0.1200
•				
Pentane	109-66-0	10	10	0.7700 - 6.4000
Propane	74-98-6	10	10	4.7000 - 13.0000
Propylbenzene	103-65-1	10	1	0.0370
Propylene	115-07-1	10	10	0.2400 - 0.9600
Tetrachloroethene	127-18-4	10	7	0.0410 - 0.0930
Toluene	108-88-3	10	10	0.3800 - 2.2000
Trans-2-Butene	624-64-6	10	5	0.0750 - 0.4100
Trans-2-Pentene	646-04-8	10	5	0.0600 - 0.2400
Undecane	1120-21-4	10	4	0.0440 - 0.0860

Laboratory non-detections are reported as less than ("<") the method detection limit.

TABLE 1-5FEBRUARY 22, 2024 (Q1) PLANNED AIR SAMPLE DETECTION SUMMARY – REFERENCE LOCATIONS (ALL RESULTS IN PARTS PER BILLION BY VOLUME)

Compound Name	Cas No	# Samples	# Detections	Range of Detections (ppb)
1-Butene	106-98-9	3	2	0.0450 - 0.0710
1-Hexene	592-41-6	3	0	< 0.0390 - < 0.0400
1-Pentene	109-67-1	3	1	0.0430
1,2,3-Trimethylbenzene	526-73-8	3	2	0.0700 - 0.0910
1,2,4-Trimethylbenzene	95-63-6	3	2	0.0390 - 0.0620
1,3-Butadiene	106-99-0	3	1	0.0480
1,3-Diethylbenzene	141-93-5	3	1	0.1400
L,3,5-Trimethylbenzene	108-67-8	3	0	< 0.0320 - < 0.0330
1,4-Diethylbenzene	105-05-5	3	3	0.0940 - 0.1700
2-Ethyltoluene	611-14-3	3	1	0.0650
2-Methylheptane	592-27-8	3	0	< 0.0400 - < 0.0410
2-Methylhexane	591-76-4	3	1	0.1200
2-Methylpentane	107-83-5	3	3	0.2000 - 0.3000
2.2-Dimethylbutane	75-83-2	3	0	< 0.0400 - < 0.0410
2,2,4-Trimethylpentane	540-84-1	3	2	0.0690 - 0.1100
2,3-Dimethylbutane	79-29-8	3	0	< 0.0400 - < 0.0410
2,3-Dimethylpentane	565-59-3	3	1	0.0850
2,3,4-Trimethylpentane	565-75-3	3	0	< 0.0400 - < 0.0410
2,4-Dimethylpentane	108-08-7	3	0	< 0.0390 - < 0.0410
3-Ethyltoluene	620-14-4	3	3	0.0420 - 0.0920
3-Methylheptane	589-81-1	3	3	0.0420 - 0.0920
3-Methylhexane	589-34-4	3	<u>3</u>	0.0770 - 0.1400
3-Methylpentane	96-14-0	3	3	0.1200 - 0.2100
1-Ethyltoluene	622-96-8	3	0	< 0.0480 - < 0.0500
Acetylene	74-86-2	3	3	0.4900 - 1.2000
		3	3	
Benzene	71-43-2	3	3	0.1800 - 0.2600
Butane	106-97-8	3	0	2.6000 - 3.4000
Carbon disulfide	75-15-0	3	0	< 0.0300 - < 0.0310
Cis-2-Butene	590-18-1			< 0.0400 - < 0.0420
Cis-2-Pentene	627-20-3	3	0	< 0.0370 - < 0.0390
Cyclohexane	110-82-7	3	3	0.0630 - 0.0970
Cyclopentane	287-92-3	3	1	0.0790
Decane	124-18-5	3	1	0.0670
Dodecane	112-40-3	3	3	0.1000 - 0.3000
thane	74-84-0	3	3	11.0000 - 17.0000
thylbenzene	100-41-4	3	2	0.0410 - 0.0770
Ethylene	74-85-1	3	3	0.5000 - 2.4000
Heptane	142-82-5	3	3	0.1200 - 0.1600
Hexane	110-54-3	3	3	0.3200 - 0.4200
sobutane	75-28-5	3	3	0.9300 - 1.4000
sopentane	78-78-4	3	3	0.8200 - 1.2000
soprene	78-79-5	3	0	< 0.0400 - < 0.0410
sopropylbenzene	98-82-8	3	0	< 0.0300 - < 0.0310
n,p-Xylenes	179601-23-1	3	2	0.1200 - 0.2200
Methylcyclohexane	108-87-2	3	2	0.1100 - 0.1200
Methylcyclopentane	96-37-7	3	3	0.1500 - 0.1900
n-Octane	111-65-9	3	2	0.0670 - 0.0760
Naphthalene	91-20-3	3	0	< 0.0500 - < 0.0510
Nonane	111-84-2	3	3	0.0410 - 0.0480
o-Xylene	95-47-6	3	2	0.0450 - 0.0810
Pentane	109-66-0	3	3	0.8700 - 1.4000
Propane	74-98-6	3	3	5.1000 - 8.3000
Propylbenzene	103-65-1	3	0	< 0.0310 - < 0.0320
Propylene	115-07-1	3	3	0.1200 - 0.4300
Tetrachloroethene	127-18-4	3	0	< 0.0350 - < 0.0370
Toluene	108-88-3	3	3	0.3200 - 0.5400
Trans-2-Butene	624-64-6	3	0	< 0.0380 - < 0.0390
Trans-2-Pentene	646-04-8	3	0	< 0.0460 - < 0.0480
Undecane	1120-21-4	3	3	0.0400 - 0.1300
muccane	TTCO-CT-4	٥	٥	0.0400 - 0.1300

Laboratory non-detections are reported as less than ("<") the method detection limit.

3.2 Screening Health Risk Assessment Results

The purpose of this screening health risk assessment was to determine whether exposure to the concentrations of individual or cumulative VOCs could potentially pose acute (short-term) health hazards. Acute health risks were estimated for each location for each substance both individually and combined. According to USEPA guidelines (USEPA 1989, 2004), a HQ or HI less than or equal to one indicates that exposures are likely to be without any appreciable risk of adverse acute health effects, even for sensitive subpopulations. The calculated acute HQ and HI are summarized in Table 1-6, Table 1-7 and Figure 1-3 and all data are presented in Appendix B. In general, the air sampling data and health risk assessment indicate:

- All measured individual and cumulative air concentrations of detected VOCs in the planned air samples taken on February 22,2024, at CCND sampling locations were below their respective acute health-based reference levels.
 - Table 1-6 shows all HQs for individual VOCs to be well below one. An HQ of less than one indicates unlikely risk of acute adverse health effects from that VOC.
 - Cumulative health risks (as indicated by HI) for all VOCs are shown in Figure 1-3. The calculated HI for all sampled sites were well below one, indicating unlikely risk of acute adverse health effects from cumulative exposure to measured analytes.
- All measured individual and combined air concentrations of detected VOCs in the planned air samples taken on February 22, 2024 at the three additional reference sample locations were below their respective acute health-based reference levels (Table 1-7, Figure 1-3).
- These risk results for samples taken from both CCND and reference locations indicate the measured concentrations are likely to be without an appreciable risk of adverse acute health effects, even for sensitive sub-populations.

TABLE 1-6 FEBRUARY 22, 2024 (Q1) CCND SUMMA CANISTER SCREENING RISK ANALYSIS: COMPOUND-SPECIFIC HÁZARD QUOTIENTS FOR PLANNED AIR SAMPLES - CCND MONITORING SITES

1-Butene	06-98-9 02-41-6 09-67-1 26-73-8 5 6-3-6 05-99-0 41-93-5 08-67-8 05-5 08-67-8 05-5 11-14-3 02-27-8 01-7-6-4 07-83-5 5-83-2 40-84-1 9-29-8 55-57-3 38-08-7 20-14-4 39-81-1 39-34-4 5-14-0 22-9-6 8-4-48-2 1-4-3-2 06-97-8	NR NR NR NR 140,000 140,000 170,000 NR 140,000 NR	Level (ppb) 27,000 3,000 3,000 3,000 3,000 298 450 450 450 450 5,400 5,400 4,100 5,400 4,100 8,300 4,100 8,300 4,100 8,300 4,100 8,300 5,400 250 4,100 8,300 9,2000	TCEQ Short-Term AMCV	0.0000 0.0001 0.0000	0.0000 0.0001 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000	School 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000	0.0000 0.0001 0.0000	0.0000 0.0001 0.0000 0.0000 0.0001 0.0001 0.0001 0.0000 0.0001 0.0000	0.0000 0.0001 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000	School 0.0000 0.0000 0.0001 0.0000 0.0001 0.0001 0.0002 0.0000
1-Hexene 592 1-Pentene 109 1,2,3-Trimethylbenzene 951 1,3-Butadiene 105 1,3-Butadiene 105 1,3-Bitylbenzene 105 1,3-Diethylbenzene 105 1,4-Diethylbenzene 105 1,4-Diethylbenzene 105 1,4-Diethylbenzene 105 1,4-Diethylbenzene 107 1,2-Methylbenzene 107 1,2-Methylbenzene 107 1,2-Dimethylbentane 107 1,2-Dimethylbutane 595 1,4-Dimethylpentane 505 1,3-Dimethylbutane 505 1,3-Dimethylbutane 505 1,3-Dimethylpentane 505 1,3	92-41-6 99-67-1 26-73-8 5-63-6 06-99-0 41-93-5 08-67-8 05-05-5 11-14-3 92-27-8 91-76-4 07-83-5 5-83-2 40-84-1 9-29-8 55-57-3 08-08-7 20-14-4 39-81-1 39-34-4 5-14-0 22-96-8 4-18-6-2 1-4-8-2 1-4-8-2 1-4-3-2 06-97-8	NR NR 140,000 140,000 670,000 NR 140,000 NR	500 12,000 3,000 3,000 3,000 3,000 450 250 4,100 8,300 5,400 4,100 5,400 8,300 4,100 8,300 4,100 8,300 4,100 8,300 5,400 8,300 5,400 9,250 9 92,000	TCEQ Short-Term AMCV TCEQ Short-Term AMCV TCEQ Short-Term AMCV TCEQ Short-Term AMCV OEHHA Acute REL TCCQ Short-Term AMCV TCEQ Short-Term AMCV	0.0001 0.0000	0.0001 0.0000	0.0001 0.0000 0.0000 0.0000 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0001 0.0001 0.0001 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000	0.0001 0.0000	0.0001 0.0000 0.0000 0.0001 0.0000
1-Pentene 103 1,2,3-Trimethylbenzene 526 1,2,4-Trimethylbenzene 951 1,3-Butadiene 141 1,3-Diethylbenzene 105 1,4-Diethylbenzene 105 1,4-Diethylbenzene 105 2-Ethyltoluene 591 2-Methylheptane 592 2-Methylheptane 751 2,2-Dimethylbentane 752 2,3-Dimethylbutane 752 2,3-Dimethylbutane 753 2,3-Dimethylpentane 105 2,3-Hrimethylpentane 505 3,4-Trimethylpentane 505 3,4-Trimethylpentane 505 3-Methylheptane 503 3-Methylheptane 503 3-Methylheptane 503 3-Methylpentane 71 4-Ethyltoluene 71 Butane 106 2-Pentene 71 Butane 106 2-Pentene 507 Cis-2-Pentene 507 Cyclohexane 110 Cyclopentane 122 Decane 124 Dodcane 125 Ethylene 74 Heptane 102 Ethylenene 74 Heptane 102 Ethylenene 74 Heptane 102 Ethylenene 74 Heptane 104	09-67-1 26-73-8 5-63-6 06-99-0 41-93-5 08-67-8 05-05-5 11-14-3 92-27-8 91-76-4 07-83-5 5-5-83-2 40-84-1 9-29-8 55-59-3 55-75-3 08-08-7 70-014-4 39-81-1 39-34-4 5-14-0 22-96-8 4-18-6-2 1-4-86-2 1-4-86-2 1-4-86-2 1-4-86-2	NR 140,000 140,000 140,000 NR 140,000 NR	12,000 3,000 3,000 3,000 298 450 450 250 4,100 8,300 5,400 4,100 8,300 4,100 8,300 4,100 8,300 4,100 8,300 4,100 8,300 5,400 9,250 9 92,000	TCFQ Short-Term AMCV TCEQ Short-Term AMCV TCFQ Short Torm AMCV OEHHA Acute REL TCFQ Short Torm AMCV TCFQ Short-Term AMCV	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000 0.0000 0.0001 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0001 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0001 0.0001 0.0000	0.0000 0.0000	0.0000 0.0001 0.0001 0.0002 0.0000
1,2,3-Trimethylbenzene 526 1,2,4-Trimethylbenzene 95 4 1,3-Butadiene 106 1,3-Settapilbenzene 108 1,3,5-Trimethylbenzene 108 2-Ethyltoluene 611 2-Hethylheptane 592 2-Methylhexane 592 2-Methylpentane 75- 2,2-Dimethylbutane 75- 2,2-Johnethylbutane 75- 2,3-Dimethylpentane 602 2,3-Dimethylpentane 602 2,3-Dimethylpentane 602 3-Methylpentane 602 3-Methylpentane 602 3-Methylpetane 602 3-Methylpetane 602 4-Ethyltoluene 602 4-Ethyltoluene 602 4-Ethyltoluene 602 4-Ethyltoluene 602 619-2-Butene 70 Gis-2-Butene 602 Cyclohexane 110 Cyclopertane 287 Decane 124 Dodecane 122 <	26-73-8 5 63 6 06-99-0 41 93 5 08-67-8 105 05 5 11-14-3 92-27-8 11-14-3 92-27-8 11-14-3 92-27-8 11-14-3 92-27-8 11-14-3 92-27-8 11-14-3 92-28-8 55-59-3 55-59-3 55-59-3 98-08-4 14-4 99-81-1 89-81-1	140,000 140,000 140,000 NR 140,000 NR 140,000 NR	3,000 3,000 3,000 298 450 3,000 450 250 4,100 8,300 5,400 4,100 5,400 4,100 8,300 4,100 8,300 4,100 8,300 5,400 250 4,100 9 92,000	TCEQ Short-Term AMCV TCFQ Short Term AMCV OEHHA ACULE REL TCCQ Short Term AMCV ICEQ Short-Term AMCV TCEQ Short-Term AMCV	0.0000 0.0000	0.0000 0.0000	0.0000 0.0001 0.0001 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0001 0.00001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0001 0.0001 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000	0.0000 0.0001 0.0004 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
1,2,4-Trimethylbenzene 95 1,3-Butadiene 106 1,3-Diethylbenzene 108 1,4-Diethylbenzene 615 2-Ethyltoluene 615 2-Ethyltoluene 592 2-Methylhexane 75- 2,2-Dimethylbutane 79- 2,3-Dimethylbutane 79- 2,3-Dimethylpentane 602 2,3-Dimethylpentane 602 2,3-Hrimethylpentane 602 3-Methylpentane 693 3-Methylhexane 593 3-Methylhexane 692 3-Methylhexane 692 3-Methylhexane 692 4-Ethyltoluene 622 4-Ethyltoluene 622 6-Ethyltoluene 625 6-Ethyltoluene 625 6-Ethyltoluene 625 6-Ethyltoluene 626 6-Ethyltoluene 627 6-Ethyltoluene 627 6-Ethyltoluene 627 6-Ethyltoluene 627 6-Eyenetene 627	5 63 6 06-99-0 41 93 5 08-67-8 05 05 5 11-14-3 07-83-5 5-83-2 40-84-1 93-8 55-59-3 08-08-7 20 14 4 39-81-1 39-34 4 5-14-0 22-96-8 4-86-2 1-43-2 20-6-97-8	140,000 670,000 NR 140,000 NR	3,000 298 450 3,000 450 250 4,100 8,300 5,400 4,100 5,400 8,300 25,400 8,300 250 4,100 8,300 250 4,100 9 92,000	TCFQ Short Torm AMCV OEHHA Acute REL TCCQ Short Torm AMCV ICEQ Short-Ierm AMCV TCEQ Short-Ierm AMCV TCEQ Short-Torm AMCV TCEQ Short-Ierm AMCV	0.0000 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0002 0.0001 0.0000 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0003 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0004 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0003 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0001 0.0000 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0004 0.0002 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
1,3-Butadiene 106 1,3-Diethylbenzene 141 1,3-Frimethylbenzene 105 2-Ethyltoluene 611 2-Methylbenzene 591 2-Methylpetane 592 2-Methylpetane 75- 2,2-A-Trimethylpetane 542 2,3-Dimethylbutane 79- 2,3-Dimethylpetane 565 2,3-Dimethylpetane 565 2,4-Dimethylpetane 580 3-Hethylpetane 583 3-Methylhexane 583 3-Methylpetane 583 3-Methylpetane 582 3-Methylpetane 626 4-Ethyltoluene 627 4-Ethyltoluene 74 6-Erbylene 74 Butane 106 Carbon disulfide 75- Cis-2-Butene 627 Cyclohexane 110 Cyclopertane 287 Decane 124 Decane 124 Decane 124 Ethylbenzene	06-99-0 41-93-5 08-67-8 05-05-5 11-14-3 92-27-8 91-76-4 07-83-5 5-83-2 40-84-1 9-29-8 55-59-3 38-08-7 20-14-4 39-81-1 39-34-4 5-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	670,000 NR 140,000 NR	298 450 3,000 450 250 4,100 5,400 4,100 5,400 4,100 8,300 250 4,100 8,300 250 4,100 8,300 5,400 9 92,000	OEHHA Acute REL TCEQ Short Term AMCV TCEQ Short Term AMCV TCEQ Short Term AMCV TCEQ Short Term AMCV TCEQ Short-Term AMCV	0.0002 0.0001 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000	0.0002 0.0001 0.0000 0.0001 0.0000	0.0001 0.0003 0.0000 0.0001 0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0004 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0001 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0003 0.0001 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0001 0.0000 0.0002 0.000000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00	0.0004 0.0002 0.0000 0.0001 0.000000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00
1,3-Diethylbenzene 141 1,3-5-Trimethylbenzene 108 1,4-Diethylbenzene 105 2-Ethyltoluene 611 2-Methylheptane 592 2-Methylpentane 107 2,2-Dimethylbutane 75- 2,3-Dimethylbutane 76- 2,3-Dimethylpentane 565 2,3-Dimethylpentane 565 2,3-Dimethylpentane 568 3,4-Dimethylpentane 580 3-Methylheptane 583 3-Methylheptane 583 3-Methylpentane 620 4-Ethyldouene 620 4-Ethyldouene 74- 4-Ethyldouene 75- 6arbon disulfide 75- 6is-2-Butene 590 6is-2-Bentene 627 cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 122 Ethylene 74- Heptane 104	41 93 5 08-67-8 05-05 5 11-14-3 05-05 5 11-14-3 02-27-8 01-76-4 07-83-5 5-83-2 40-84-1 9-29-8 65-59-3 65-59-3 05-57-5 30-8-08-7 20-14-4 39-81-1 39-34-4 6-14-0 22-96-8 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-48-2 1-5-97-8 5-15-0	NR 140,000 NR	450 3,000 450 250 4,100 8,300 5,400 4,100 5,400 8,300 4,100 8,300 4,100 8,300 5,400 9,250 9 92,000	TCEQ Short Torm AMCV ICEQ Short-Ierm AMCV TCEQ Short-Ierm AMCV ICEQ Shor	0.0001 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0001 0.0002 0.0000	0.0003 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.00001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0002 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
1,3,5-Trimethylbenzene 108 1,4-Diethylbenzene 105 2-Ethyltofluene 611 2-Methylhexane 591 2-Methylhexane 591 2-Methylpentane 502 2-Jo-Dimethylbutane 79- 2,3-Dimethylbutane 565 2,3-Dimethylpentane 565 2,3-Dimethylpentane 565 2,4-Dimethylpentane 580 3-Hethylpentane 583 3-Methylhexane 583 3-Methylhexane 583 3-Methylpentane 690 4-Kethyltoluene 642 Acetylene 74 Butane 106 Carbon disulfide 75- Cis-2-Bentene 590 Cis-2-Bentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Decane 124 Dethylene 74 Hethylene 74	08-67-8 05-05-5 11-14-3 02-27-8 90-76-4 07-83-5 5-83-2 40-84-1 9-29-8 55-59-3 55-57-3 08-08-7 70-14-4 39-81-1 39-34-4 5-14-0 22-96-8 4-48-2 1-43-2 06-97-8	140,000 NR	3,000 450 250 4,100 8,300 5,400 5,400 4,100 5,400 8,300 4,100 8,300 4,100 8,300 5,400 250 4,100 8,300 5,400 9,200 9	ICEQ Short-Term AMCV	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0002 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
1,4-Diethylbenzene 105 2-Ethyltoluene 611 2-Methylheptane 592 2-Methylhexane 591 2-Methylpentane 107 2-Q-Dimethylbutane 75-4 2,2-Dimethylbutane 76-4 2,3-Dimethylpentane 565 2,3-Dimethylpentane 565 2,3-Trimethylpentane 583 3-Ethyltoluene 583 3-Methylheptane 583 3-Methylpentane 96-2 4-Ethyltoluene 622 Acetylene 74-1 Benzene 71-1 Butane 106 Cis-2-Butene 562 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 124 Ethylbenzene 74-1 Heptane 74-1	05 05 5 11-14-3 22 27 8 91-76-4 91-76-4 97-83-5 5-58-3-2 40-84-1 9-29-8 55-59-3 55-75-3 98-08-7 700 14 4 39-81-1 39-34 4 5-14-0 22-96-8 4-18-6-2 1-4-3-2 1-4-3-2	NR N	450 250 4,100 8,300 5,400 4,100 5,400 8,300 4,100 8,300 250 4,100 8,300 5,400 250 9,400 9	TCEQ Short-Term AMCV	0.0001 0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0002 0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
2-Ethyltoluene 611 2-Methylhexane 592 2-Methyllpexane 957 2-2-Dimethylpexane 107 2,2-Dimethylpexane 540 2,3-Dimethylputane 565 2,3-A-Trimethylpentane 565 2,3-A-Trimethylpentane 565 2,3-Dimethylpexane 589 3-Methylpexane 589 3-Methylpexane 589 3-Methylpexane 583 3-Methylpexane 583 3-Methylpexane 580 3-Methylpexane 580 3-Ethyltoluene 622 Acetylene 71 Butane 106 Carbon disulfide 75 Cis-2-Butlene 627 Cyclopexane 120 Cyclopexane 120 Cyclopexane 124 Dodecane 124 Dodecane 124 Ethylberene 744 Ethylberene 106 Ethylerene 104	11-14-3 22-27-8 22-27-8 21-76-4 21-	NR N	250 4,100 8,300 5,400 5,400 4,100 8,300 4,100 8,300 250 4,100 8,300 5,400 250 5,400 9,200	ICEQ Short-Ierm AMCV ICEQ Short-Term AMCV ICEQ Short-Ierm AMCV	0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0000 0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
2-Methylheptane 592 2-Methylpentane 591 2-Methylpentane 75- 2-Romethylbutane 75- 2-Romethylbutane 75- 2-Romethylbutane 75- 2-Romethylbutane 79- 2-Romethylbutane 79- 2-Romethylpentane 650 2-Romethylpentane 650 2-Romethylpentane 650 3-Romethylpentane 650 3-Methylpentane 650 3-Methylpenta	92.27.8 91-76-4 91-76-4 97-83-5 9-83-2 40-84-1 9-29-8 55-59-3 95-57-3 98-08-7 20-14-4 93-81-1 93-34-4 8-14-0 22-29-6 8-14-8 9-14-0 22-9-6 8-14-9 9-9-7-8	NR N	4,100 8,300 5,400 5,400 4,100 5,400 4,100 8,300 4,100 8,300 1,100 8,300 5,400 250 250 25,000 9	TCEQ Short-Term AMCV	0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	0.0000 0.0000 0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
2-Methylhexane 591 2-Methylpentane 107 2,2-Dimethylbutane 79- 2,3-Dimethylbutane 79- 2,3-Dimethylpentane 565 2,3-A-Trimethylpentane 565 2,3-Homethylpentane 565 2,3-Homethylpentane 569 3-Hethylhexane 589 3-Methylhexane 589 3-Methylhexane 589 3-Methylhexane 622 Acetylene 71- Butane 106 Carbon disulfide 75- Cis-2-Butnea 590 Cis-2-Pentene 627 Cyclopentane 287 Cyclopentane 124 Dodecane 124 Dodecane 124 Ethylevene 744 Ethylevene	91-76-4 97-83-5 5-83-2 40-84-1 9-29-8 55-59-3 55-75-3 98-08-7 20-14-4 99-81-1 99-81-1 99-81-1 99-81-1 1-4-4	NR N	8,300 5,400 5,400 4,100 5,400 8,300 4,100 8,300 250 4,100 5,400 250 25,000 9	TCEQ Short-Term AMCV	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0002 0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000	0.0000 0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	0.0000 0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
2-Methylpentane 107 2,2-Dimethylbutane 75- 2,2,4-Trimethylpentane 540 2,3-Dimethylbutane 75- 2,3-Dimethylbutane 565 2,3-Dimethylpentane 565 2,4-Dimethylpentane 583 3-Methylheptane 583 3-Methylheptane 583 3-Methylheptane 682 4-Ethyltoluene 682 Acetylene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 682 Cyclohexane 110 Cyclopentane 287 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 744 Ethylene 142	07-83-5 5-83-2 40-84-1 9-29-8 55-59-3 55-59-3 08-08-7 20-14-4 49-81-1 89-81-1 89-81-1 89-81-1 10-22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR N	5,400 5,400 4,100 5,400 8,300 4,100 8,300 250 4,100 8,300 250 250 25,000 9	TCEQ Short-Term AMCV	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0002 0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000	0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0003 0.0000 0.0000 0.0000	0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	0.0002 0.0000 0.0001 0.0000 0.0000 0.0000 0.0005 0.0005 0.0000 0.0001
2,2-Dimethylbutane 754 2,2-4-Trimethylpentane 540 2,3-Dimethylbutane 565 2,3-Dimethylpentane 565 2,3-Erimethylpentane 565 2,3-Ethyltoluene 690 3-Methylheytane 583 3-Methylheytane 583 3-Methylpentane 692 4-Ethyltoluene 692 Acetylene 74 Benzene 71- Butane 106 Carbon disulfide 75- Cis-2-Bentene 690 Cis-2-Pentene 697 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodcane 122 Ethylene 74 Heptane 74	5-83-2 40-84-1 9-29-8 55-59-3 55-75-3 08-08-7 20-14-4 489-81-1 89-34-4 6-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR N	5,400 4,100 5,400 8,300 4,100 8,300 250 4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV ATSDR Acute MRL	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0000	0.0000 0.0001 0.0001 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0002 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0000 0.0003 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0001 0.0000 0.0000 0.0000 0.0005 0.0005 0.0000 0.0001
2,2,4-Trimethylpentane 540 2,3-Dimethylpentane 79- 2,3-Dimethylpentane 565 2,3-Dimethylpentane 505 2,4-Dimethylpentane 508 2,4-Dimethylpentane 508 3-Bethyltoluene 583 3-Methylpentane 96- 4-Ethyltoluene 622 Acetylene 74- Benzene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 124 Ethylbenzene 100 Ethylpenzene 100 Ethylpenzene 741 Heptane 142	40.84-1 9-29-8 55-59-3 55-75-3 08-08-7 20-14-4 89-81-1 89-81-1 89-34-4 8-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR S2,000	4,100 5,400 8,300 4,100 8,300 250 4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV ATSDR Acute MRI.	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000 0.0001	0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0000	0.0001 0.0001 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0002 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0003 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0003 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0001
2,3-Dimethylbutane 79-2 2,3-Dimethylpentane 565 2,3-A-Trimethylpentane 565 2,4-Dimethylpentane 565 2,4-Dimethylpentane 589 3-Methylheptane 589 3-Methylpentane 96- 4-Ethyltoluene 622 Acetylene 74- Benzene 71- Butane 106 Cis-2-Butene 593 Cis-2-Butene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74-1 Ethylbenzene 100 Ethylene 74-1 Heptane 142	9-29-8 555-59-3 555-75-3 08-08-7 20-14-4 89-81-1 89-34-4 85-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR S2,000	5,400 8,300 4,100 8,300 250 4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000 0.0001	0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0000	0.0001 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0005 0.0000	0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0004 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0003 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0003 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0005 0.0000 0.0001
2,3-Dimethylpentane 565 2,3-4-Trimethylpentane 565 2,4-Dimethylpentane 505 2,4-Dimethylpentane 620 3-Hethyltoluene 589 3-Methylpentane 98- 3-Methylpentane 98- 4-Ethyltoluene 622 Acetylene 71- Butane 106 Cis-2-Butene 590 Cis-2-Butene 627 Cyclohexane 110 Cyclopentane 287 Decane 174 Dodecane 112 Ethane 74 Ethylbenzene 74 Heptane 142	55-59-3 55-75-3 38-08-7 20-14-4 39-81-1 39-81-1 39-34-4 5-14-0 22-96-8 4-86-2 1-43-2 36-97-8 5-15-0	NR S52,000	8,300 4,100 8,300 250 4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV	0.0000 0.0000 0.0002 0.0000 0.0000 0.0002	0.0000 0.0000 0.0000 0.0004 0.0000 0.0000 0.0001	0.0000 0.0000 0.0000 0.0005 0.0000 0.0000	0.0000 0.0000 0.0000 0.0007 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0005 0.0000	0.0000 0.0000 0.0002 0.0000 0.0000	0.0000 0.0000 0.0000 0.0004 0.0000	0.0000 0.0000 0.0000 0.0003 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0003 0.0000 0.0000	0.0000 0.0000 0.0000 0.0005 0.0000 0.0001
2,3,4-Trimethylpentane 565 2,4-Dimethylpentane 108 3-Ethyltotluene 620 3-Methylhexane 583 3-Methylhexane 96- 4-Ethyltotluene 622 Acetylene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 627 Cis-2-Butene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodacea 112 Ethane 44 Ethylbenzene 74 Heptane 142	55-75-3 08-08-7 20-14-4 39-81-1 39-34-4 6-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR NR NR NR NR NR NR NR S2,000 5,500,000	4,100 8,300 250 4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV	0.0000 0.0000 0.0000 0.0000 0.0000 0.0002	0.0000 0.0000 0.0004 0.0000 0.0000 0.0001	0.0000 0.0000 0.0005 0.0000 0.0000	0.0000 0.0000 0.0007 0.0000 0.0000 0.0001	0.0000 0.0000 0.0005 0.0000	0.0000 0.0000 0.0002 0.0000 0.0000	0.0000 0.0000 0.0004 0.0000 0.0000	0.0000 0.0000 0.0003 0.0000 0.0000 0.0001	0.0000 0.0000 0.0003 0.0000 0.0000	0.0000 0.0000 0.0005 0.0000 0.0001
2,4-Dimethylpentane 108 3-Ethyltoluene 620 3-Methylheptane 589 3-Methylpentane 589 3-Methylpentane 622 3-Methylpentane 62-2 4-Ethyltoluene 62-2 Acetylene 74-1 Butane 106 Carbon disulfide 75- Cis-2-Butene 590 Cis-2-Pentene 627 Cyclopentane 100 Cyclopentane 124 Dodecane 112 Ethane 74-1 Ethylenzene 100 Ethylene 74-1 Heptane 142	08-08-7 20-14-4 39-81-1 39-34-4 5-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR NR NR NR NR NR 52,000	8,300 250 4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV	0.0000 0.0002 0.0000 0.0000 0.0000 0.0002	0.0000 0.0004 0.0000 0.0000 0.0001 0.0002	0.0000 0.0005 0.0000 0.0000 0.0000	0.0000 0.0007 0.0000 0.0000 0.0001	0.0000 0.0005 0.0000 0.0000	0.0000 0.0002 0.0000 0.0000	0.0000 0.0004 0.0000 0.0000	0.0000 0.0003 0.0000 0.0000 0.0001	0.0000 0.0003 0.0000 0.0000 0.0000	0.0000 0.0005 0.0000 0.0001 0.0001
3-Ethyltoluene 620 3-Methylheptane 589 3-Methylheptane 589 3-Methylpentane 96: 4-Ethyltoluene 622 Acetylene 74- Benzene 71- Butane 106 Carbon disulfide 75: Cis-2-Butene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 122 Ethane 744 Ethylbenzene 100 Ethylene 744 Heptane 142	20-14-4 89-81-1 89-81-1 89-34-4 6-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR NR NR NR NR S2,000	250 4,100 8,300 5,400 250 25,000 9	TCFQ Short-Term AMCV TCEQ Short-Term AMCV TCFQ Short-Term AMCV ATSDR Acute MRL	0.0002 0.0000 0.0000 0.0000 0.0002 0.0000	0.0004 0.0000 0.0000 0.0001 0.0002	0.0005 0.0000 0.0000 0.0000	0.0007 0.0000 0.0000 0.0001	0.0005 0.0000 0.0000	0.0002 0.0000 0.0000	0.0004 0.0000 0.0000	0.0003 0.0000 0.0000 0.0001	0.0003 0.0000 0.0000 0.0000	0.0005 0.0000 0.0001 0.0001
3-Methylheptane 589 3-Methylhexane 589 3-Methylpentane 96- 4-Ethyltoluene 622 Acetylene 74- Benzene 71- Buttane 106 Carbon disulfide 75- Cis-2-Butene 590 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 744 Ethylbenzene 100 Ethylene 743 Heptane 142	89-81-1 89-34-4 6-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR NR NR NR 52,000	4,100 8,300 5,400 250 25,000 9	TCEQ Short-Term AMCV TCEQ Short Term AMCV TCEQ Short-Term AMCV TCEQ Short-Term AMCV ICEQ Short-Term AMCV ATSDR Acute MRL	0.0000 0.0000 0.0000 0.0002 0.0000	0.0000 0.0000 0.0001 0.0002	0.0000 0.0000 0.0000	0.0000 0.0000 0.0001	0.0000	0.0000	0.0000	0.0000 0.0000 0.0001	0.0000 0.0000 0.0000	0.0000 0.0001 0.0001
3-Methylhexane 588 3-Methylpentane 96- 4-Ethyltoluene 622 Acetylene 74- Benzene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 590 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethylbenzene 100 Ethylene 74-1 Heptane 142	89 34 4 6-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR NR NR 52,000 5,500,000	8,300 5,400 250 25,000 9	TCEQ Short Term AMCV TCEQ Short-Term AMCV TCEQ Short-Term AMCV ICEQ Short-Ierm AMCV ATSDR Acute MRL	0.0000 0.0000 0.0002 0.0000	0.0000 0.0001 0.0002	0.0000	0.0000 0.0001	0.0000	0.0000	0.0000	0.0000 0.0001	0.0000	0.0001 0.0001
3-Methylpentane 96- 4-Ethyltoluene 622 Acetylene 74- Benzene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 593 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74-4 Ethylbenzene 100 Ethylene 74-4 Heptane 142	6-14-0 22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR NR 52,000 5,500,000	5,400 250 25,000 9 92,000	TCEQ Short-Term AMCV TCEQ Short-Term AMCV TCEQ Short-Term AMCV ATSDR Acute MRL	0.0000 0.0002 0.0000	0.0001	0.0000	0.0001				0.0001	0.0000	0.0001
4-Ethyltoluene 622 Acetylene /4-4 Benzene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 599 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74-4 Ethylbenzene 100 Ethylene 74-4 Heptane 142	22-96-8 4-86-2 1-43-2 06-97-8 5-15-0	NR NR 52,000 5,500,000	250 25,000 9 92,000	TCEQ Short-Term AMCV TCEQ Short-Term AMCV ATSDR Acute MRL	0.0002	0.0002			0.0001	0.0000	0.0001			
Acetylene 74-1 Benzene 71- Butane 106 Carbon disulfide 75- Cis-2-Butene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74-1 Ethylbenzene 100 Ethylene 74-1 Heptane 1102	4-86-2 1-43-2 06-97-8 5-15-0	NR 52,000 5,500,000	25,000 9 92,000	TCEQ Short-Term AMCV ATSDR Acute MRL	0.0000		0.0002							
Benzene 71- Butane 108 Carbon disulfide 75- Cis-2-Butene 590 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodcane 112 Ethane 74- Ethylbenzene 100 Ethylene 74- Heptane 142	1-43-2 06-97-8 5-15-0	52,000 5,500,000	9 92,000	ATSDR Acute MRL		0.0001		0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Butane 106 Carbon disulfide 75 Cis-2-Butene 590 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74 4 Ethylbenzene 100 Ethylene 74 4 Heptane 142	06-97-8 5-15-0	5,500,000	92,000		0.0289		0.0000	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001
Carbon disulfide 75: Cis-2-Butene 590 Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74 4 Ethylbenzene 100 Ethylene 74 4 Heptane 142	5-15-0			TCEO Short-Term AMCV		0.0533	0.0211	0.0578	0.0344	0.0211	0.0467	0.0578	0.0378	0.0578
Cis-2-Butene 590 Cis-2-Pentene 627 Cyclohexane 110 Cyclopetrane 287 Decane 124 Dodecane 112 Ethane 74 · I Ethylbenzene 100 Ethylene 74 · I Heptane 142		13,000			0.0000	0.0001	0.0000	0.0002	0.0001	0.0000	0.0001	0.0002	0.0000	0.0002
Cis-2-Pentene 627 Cyclohexane 110 Cyclopentane 287 Decane 174 Dodecane 112 Ethane 74 × Ethiplenzene Ethylbenzene 740 Heptane 142	90-18-1		1,990	OEHHA Acute REL	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cyclohexane 110 Cyclopentane 287 Decane 124 Dodecane 112 Ethane 74 Ethylbenzene 100 Ethylene 74 Heptane 142		NR	15,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cyclopentane 287 Decane 174 Dodecane 112 Ethane 744 Ethylbenzene 100 Ethylene 744 Heptane 142	27-20-3	NR	12,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Decane 124 Dodecane 112 Ethane 74 Ethylbenzene 100 Ethylene 74 Heptane 142	10-82-7	NR	1,000	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001	0.0002	0.0001	0.0003
Dodecane 112 Ethane 74 t Ethylbenzene 100 Ethylene 74 t Heptane 142	37-92-3	NR	5,900	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ethane 74 k Ethylbenzene 100 Ethylene 74 k Heptane 142	24-18-5	NR	1,000	TCEQ Short-Term AMCV	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001
Ethylbenzene 100 Ethylene 74 t Heptane 142	12-40-3	NR	1,720	CDPHE Acute	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001	0.0000	0.0001	0.0001
Ethylene 74 8 Heptane 142	4-84-0	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptane 142	00-41-4	33,000	5,000	ATSDR Acute MRL	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	4-85-1	NR	500,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hexane 110	12-82-5	NR	8,300	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
	10 54 3	NR	5,400	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001	0.0002	0.0001	0.0000	0.0001	0.0002	0.0001	0.0003
Isobutane 75-7	5-28-5	NR	33,000	TCEQ Short-Term AMCV	0.0000	0.0001	0.0001	0.0002	0.0001	0.0000	0.0001	0.0001	0.0000	0.0002
		NR	68,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001
•		NR	1,400	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			510	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	79601-23		2,000	ATSDR Acute MRL	0.0001	0.0002	0.0001	0.0003	0.0001	0.0001	0.0002	0.0002	0.0001	0.0003
		NR	4,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001
		NR	750	TCEQ Short-Term AMCV	0.0003	0.0004	0.0003	0.0007	0.0003	0.0001	0.0004	0.0005	0.0002	0.0008
		NR	4,100	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		NR	95	TCEQ Short-Term AMCV	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0006	0.0005	0.0006	0.0005
		NR	3,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			1,700	ATSDR Acute MRL	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001
•		NR	68,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001
		5,500,000		NA NA	NA	NA	NA NA	NA NA	NA	NA	NA	NA NA	NA NA	NA NA
		NR	510	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
			NA NA		NA NA	0.0001 NA	NA NA	NA NA	0.0001 NA	0.0001 NA	NA NA	0.0001 NA	0.0001 NA	NA NA
				NA ATCDD Asula MDI										
		35,000	6	ATSDR Acute MRL	0.0060	0.0073	0.0155	0.0133	0.0070	0.0060	0.0068	0.0128	0.0067	0.0155
			2,000	ATSDR Acute MRL	0.0002	0.0005	0.0011	0.0005	0.0003	0.0002	0.0004	0.0005	0.0003	0.0010
			15,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			12,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Undecane 112	46-04-8	NR	550	TCEQ Short-Term AMCV Hazard Index	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002

NA = Not Available
NR = According to EPA, AEGL is "Not Recommended due to insufficient data"

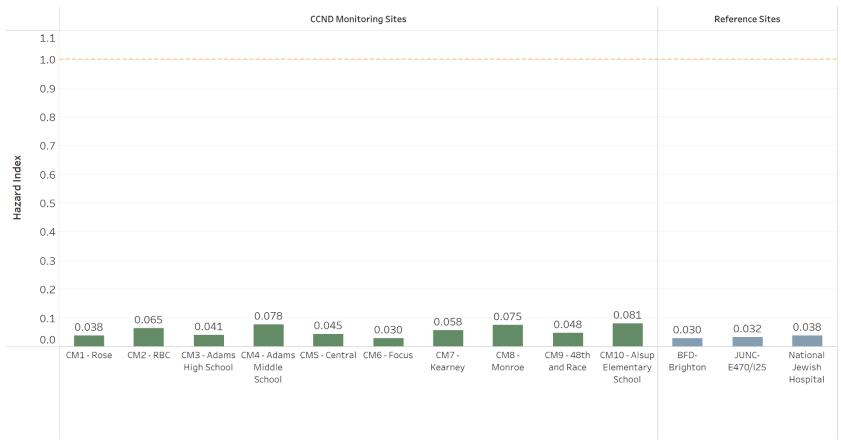
TABLE 1-7
FEBRUARY 22, 2024 (Q1) CCND SUMMA CANISTER SCREENING RISK ANALYSIS:
COMPOUND-SPECIFIC HAZARD QUOTIENTS FOR PLANNED AIR SAMPLES –
REFERENCE SITES

			Health				National
		AEGL 160			BFD- Brighton	JUNC-	Jewish
		min Value	Reference		D. D. D. Ignicon	E470/I25	Hospital
Compound Name	Cas No	(ppb)	Level (ppb)				•
1-Butene	106-98-9	NR	27,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
1-Hexene	592-41-6	NR	500	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001
1-Pentene	109-67-1	NR	12,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
_ , ,	526-73-8	140,000	3,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
1,2,4-Trimethylbenzene 1,3-Butadiene	95-63-6 106-99-0	140,000 670,000	3,000 298	TCEQ Short-Term AMCV OEHHA Acute REL	0.0000	0.0000	0.0000
1,3-Diethylbenzene	141-93-5	NR	450	TCEQ Short-Term AMCV	0.0001	0.0001	0.0002
	108-67-8	140,000	3,000	TCEQ Short-Term AMCV	0.0000	0.0001	0.0001
1,4-Diethylbenzene	105-07-5	NR	450	TCEQ Short-Term AMCV	0.0004	0.0002	0.0003
2-Ethyltoluene	611-14-3	NR	250	TCEQ Short-Term AMCV	0.0003	0.0002	0.0003
2-Methylheptane	592-27-8	NR	4,100	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2-Methylhexane	591-76-4	NR	8,300	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2-Methylpentane	107-83-5	NR	5,400	TCEQ Short-Term AMCV	0.0000	0.0000	0.0001
2,2-Dimethylbutane	75-83-2	NR	5,400	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2,2,4-Trimethylpentane	540-84-1	NR	4,100	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2,3-Dimethylbutane	79-29-8	NR	5,400	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2,3-Dimethylpentane	565-59-3	NR	8,300	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2,3,4-Trimethylpentane		NR	4,100	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
2,4-Dimethylpentane	108-08-7	NR	8,300	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
3-Ethyltoluene	620-14-4	NR	250	TCEQ Short-Term AMCV	0.0004	0.0002	0.0002
3-Methylheptane	589-81-1	NR	4,100	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
3-Methylhexane	589-34-4	NR	8,300	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
3-Methylpentane	96-14-0	NR	5,400	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
4-Ethyltoluene	622-96-8	NR	250	TCEQ Short-Term AMCV	0.0002	0.0002	0.0002
Acetylene	74-86-2	NR F2.000	25,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Benzene	71-43-2	52,000 5,500,000	9	ATSDR Acute MRL	0.0200	0.0233	0.0289
Butane Carbon disulfide	106-97-8 75-15-0	13,000	92,000 1,990	TCEQ Short-Term AMCV OEHHA Acute REL	0.0000	0.0000	0.0000
Cis-2-Butene	590-18-1	NR	15,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Cis-2-Butene Cis-2-Pentene	627-20-3	NR	12,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Cyclohexane	110-82-7	NR	1,000	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001
Cyclopentane	287-92-3	NR	5,900	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Decane	124-18-5	NR	1,000	TCEQ Short-Term AMCV	0.0001	0.0000	0.0000
Dodecane	112-40-3	NR	1,720	CDPHE Acute	0.0002	0.0001	0.0001
Ethane	74-84-0	NR	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	33,000	5,000	ATSDR Acute MRL	0.0000	0.0000	0.0000
Ethylene	74-85-1	NR	500,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Heptane	142-82-5	NR	8,300	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Hexane	110-54-3	NR	5,400	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001
Isobutane	75-28-5	NR	33,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Isopentane	78-78-4	NR	68,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Isoprene	78-79-5	NR	1,400	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Isopropylbenzene	98-82-8	50,000	510	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001
m,p-Xylenes	179601-23		2,000	ATSDR Acute MRL	0.0001	0.0001	0.0001
Methylcyclohexane Methylcyclopentane	108-87-2 96-37-7	NR NR	4,000 750	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
n-Octane	111-65-9	NR	4,100	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	0.0002	0.0002	0.0003
Naphthalene	91-20-3	NR	95	TCEQ Short-Term AMCV	0.0005	0.0000	0.0005
Nonane	111-84-2	NR	3,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
o-Xylene	95-47-6	130,000	1,700	ATSDR Acute MRL	0.0000	0.0000	0.0000
Pentane	109-66-0	NR	68,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Propane	74-98-6	5,500,000		NA NA	NA	NA NA	NA
Propylbenzene	103-65-1	NR	510	TCEQ Short-Term AMCV	0.0001	0.0001	0.0001
Propylene	115-07-1	NR	NA	NA	NA	NA	NA
Tetrachloroethene	127-18-4	35,000	6	ATSDR Acute MRL	0.0062	0.0060	0.0058
Toluene	108-88-3	67,000	2,000	ATSDR Acute MRL	0.0002	0.0002	0.0003
Trans-2-Butene	624-64-6	NR	15,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Trans-2-Pentene	646-04-8	NR	12,000	TCEQ Short-Term AMCV	0.0000	0.0000	0.0000
Undecane	1120-21-4	NR	550	TCEQ Short-Term AMCV	0.0002	0.0001	0.0001
				Hazard Index	0.0302	0.0323	0.0382

NA = Not Available

NR = According to EPA, AEGL is "Not Recommended due to insufficient data"

FIGURE 1-3
FEBRUARY 22, 2024 (Q1) - HAZARD INDEX BY AIR SAMPLING LOCATION FOR ALL PLANNED AIR SAMPLES



Hazard Index (HI) is the sum of all combined hazard quotients (HQ). According to EPA, a HI less than or equal to one (orange line) indicates that exposures are likely to be without any appreciable risk of adverse health effects, even for sensitive sub-populations.

3.3 **Uncertainty Evaluation**

Scientific uncertainty is inherent in each step of the risk assessment process because all risk assessments incorporate a variety of assumptions and professional judgments (USEPA 1989, 2004). Therefore, the acute health hazard estimates presented in this assessment are conditional estimates given a considerable number of assumptions about exposure and toxicity.

This screening-level risk assessment relied on a combination of health-protective exposure scenarios and input values (i.e., high-end exposures). This approach was selected to help risk management decision making. Because of these assumptions, the estimates of acute hazards are themselves uncertain.

This risk assessment did not address past or present health outcomes associated with current or past exposures. As such, this risk assessment cannot be used to make realistic predictions of biological effects and/or used to determine whether someone is ill (cancer or other adverse health effects) due to past or current exposures. This risk assessment was limited to inhalation exposures from outdoor exposures to all potential sources.

4.0 PROGRAM CHANGES

There were only two additional reference sample locations during the Q4, 2023 summa sampling event, compared to three additional reference sample locations, typically utilized during previous quarters. CDPHE's CAMP air quality monitoring station is permanently shut down in Q4 of 2023. Due to this shutdown during the Q1, 2024 summa sampling event a new third urban location was identified. This location was in proximity to camp and is located at National Jewish Health.

Prepared by:

David Smith

David Smith

Client Project Manager

Montrose Air Quality Services

Michael Lumpkin, PhD, DABT

Michael H. Lumphin

Senior Toxicologist

CTEH®, LLC

APPENDIX A SAMPLE CHAIN OF CUSTODIES

STATEMENT							hain of Cu	stody Reco	ecord Turn Around Time				(rush by advanced notice only)					
19		, T A T		ALI I		Lab No:	0224-1	002_1605	72	10 Day:	х	5 Day:			3 Day:		J	-
	I A A	MAL	- 1	ICAL	-	Page:	1	of	1	2 Day:		1 Day:			Custor			
							CUSTON	IER INFORM	IATION		PROJECT INFORMATION							
						Company:	MAQS				Name:				Sunco			
						Report To:	James	Garrett			Number:	-	PF	ROJ-022	2555			
7 Da	y Samples					Email:	jagar	rett@montr	montrose-env.com			P.O. #:			PO-023647			
						Address:	990 W	43rd Ave, Den	iver, CO 8	0211	Address:	N/A					-	
						Phone: 719-466-9447					Global ID:		N/A					
						Fax: N/A Sample								MA	QS - De	enver		-
														Ana	alysis R	Reques	sted	
													T			Ť		П
		**Canis	ter pressure	e may increase as	samnla	s aro shinn	ing to a d	ifforest also										
			Туре	Equipment			ing to a u			nformation								
	Sample ID (Location	on ID)	(I) Indoor		Size	Flow	Sample	Sample		and W	Comple	ve.	List					
	Sample ID (LOCALIC	נטו ווטן	(A) Ambient (SV) Soil Vapor	Canister ID	(1L, 3L,	Controller	Start	Start	Vacuum Start	Sample End	Sample End	Vacuum End						
			(S) Source		6L, 15L)	ďβ	Date	Time	("Hg)	Date	Time	("Hg)	Suncor					
1			Α	44315	6	16759	2/15/24	9:52 AM	25	2/22/24	9:00 AM	1	x	\top	\top			Ħ
2	48th & Race (Α	C70581	6	12834	2/15/24	10:50 AM	28	2/22/24	7:20 AM	4	х					Н	
3	Focus Points (СМ6)	Α	40119	6	16755	2/15/24	10:07 AM	25	2/22/24	6:30 AM	3	х					\forall
4	Adams City High Sci		Α	44317	6	16756	2/15/24	10:42 AM	25	2/22/24	8:38 AM	1	x					H
5	Central Elementary S		Α	40113	6	16754	2/15/24	8:32 AM	25	2/22/24	7:35 AM	1	x			1		\Box
6	Rose Hill Elementary	School (CM1)	Α	44313	6	16752	2/15/24	9:00 AM 25		2/22/24	8:50 AM	2	x					\vdash
7	Kearney Middle Sch		Α	44314	6	16760	2/15/24	8:45 AM	25	2/22/24	7:27 AM	1	х			+		\forall
8	Alsup Elementary Sci		Α	44311	6	16761	2/15/24	11:11 AM	24	2/22/24	6:45 AM	10	-x	or serie	Lance of	Tal Princip		\forall
9	Adams City Middle S	chool (CM4)	Α	44318	6	16762	2/15/24	11:02 AM	2.5	2/22/24	6:32 AM	1	х					\Box
10	Monroe Street	(CM8)	Α	40112	6	16757	2/15/24	11:37 AM	25	2/22/24	7:40 AM	1	x	24	1,2	6	Fluk	en.
11	Brighton Fire Depar	ment (BFD)	Α	40116	6	16753	2/15/24	9:45 AM	25	2/22/24	8:07 AM	8	x		34	_	following the second	n
12	E470/I25 (JU	NC)	Α	40110	6	16764	2/15/24	10:02 AM	25	2/22/24	8:22 AM	3	х	11				H
13	National Jewish Ho	spital NFH	Α	44320	6	16763	2/15/24	9:28 AM	25	2/22/24	7:45 AM	1	x			+		Н
_			Signature	9		Print I	Name			Company /	Title			Da	te / T	ime		\dashv
¹ Re	linquished By:	1 × ×	CW8			Curtis N	euhring			Montros	e	_			/23/20			\dashv
					EN	ian Si	Mal	E	nthe	104/6	ech	1	110	124		16:	21	\neg
-	linquished By:	0				,						1	, 00	10-1	$\overline{}$	100	١٥	\dashv
_	ceived By:												-1-1					\dashv
³ Relinquished By:											-							\neg
³ Received By:																	-	၂

1 []

CAMPITAL DV							Air Chain of Custody Record Turn Around Time (rush by adv												
9	JAN LIN		A	V Y		59 SELL SERV		4 00 50 50		Ü-, -, -, -, -			h by	advar	ıced	notic	e on	ly)	
	TO VAM	AIV	2	a. a				-1003.	100573	10 Day:	Х	5 Day:			3 Day	<i>t</i> :			
341201	AL WE ATT 2	* 11 64 4	8	A 5- /% &		Page:	1	of	1	2 Day:		1 Day:			Custo	om TA			4.0
							CUSTO	MER INFO	RMATION			PRO	JECT	INFOF	TAM	ION	-		
						Company:	MAC	QS			Name:				Sunc	or			
1 Ho	ur Samples					Report To:	Jame	es Garrett			Number:		Р	ROJ-02	2555				
O P	Ictually enthalpy ca	mister ID	ìs	"(70709") EG	S	Email:	jaga	arrett@mo	ntrose-en	.com	P.O. #:	PO-023647							
	`0			U	614	Address:	990	W 43rd Ave, I	Denver, CO 8	0211	Address:	N/A							
31	ursamples ACEUAN ENTHAIPY CA ACEUAN ENTHAIPY (avister I	i a	s "c70585"		Phone:	719-		Global ID:				N/A	Α			\neg		
9/	.0			Eas 1	126124	Fax:	N/A				Sampled By	:	MAQS - Denver						
													Analysis Requested						
													П		П				
	5	**Canister pre	ssure	e may increase as	sample	s are shipp	ing to a	different o	levation										
		Ту		Equipment			ing to a	different e		nformation	-	- Mariani							
	Sample ID (Location ID)	(I) In	1000		Size	Flow	Sample	e Sample	9 1,4	Sample	Sample		List						
	(Lateralania)	(A) An (SV) Soi		Canister ID	(1L, 3L,	Controller	Start	50 000000000000000000000000000000000000	Vacuum Start	End	Sample End	Vacuum End			11				
		(S) Sc	urce		6L, 15L)	ID	Date	Time	("Hg)	Date	Time	("Hg)	Suncor					il	
1	RBC (CM2)			C70528	6	16724	2/22/2	4 6:45 AN	M 24	2/22/24	7:45 AM	3	x				H		
2	48th & Race (CM9)	<i>F</i>		C70550	6	16727	2/22/2	4 6:22AN	/1 25	2/22/24	7:20AM	4	x	+	\vdash	+	\vdash	\Box	\Box
3	Focus Points (CM6)			C70542	6	16728	2/22/2	4 6:30 AN	VI 24	2/22/24	7:30 AM	2	x		\Box		\vdash		\neg
4	Adams City High School (CN			C70485	6	16719	2/22/2	4 7:38 AN	VI 27	2/22/24	8:38 AM	3	x			+	\vdash		\dashv
5	Central Elementary School (C			C47108	6	16727	2/22/2	4 7:35 AN	И 25	2/22/24	8:36 AM	1	x			+	\vdash	\dashv	\dashv
6	Rose Hill Elementary School (C70590	6	16723	2/22/2	4 7:49 AN	И 26	2/22/24	8:49 AM	2	×	5 7	1 1-7 E	1-15	\vdash		
7	Kearney Middle School (CN	17) (2) • A		C47100	6	15970	2/22/2	4 7:26 AN	И 25	2/22/24	8:26 AM	3	x			+	\vdash		\dashv
8	Alsup Elementary School (CN			C70478	6	16720	2/22/24	4 6:40 AN	M 23	2/22/24	7:41 AM	2	x /	240	59	7 8	U	P	
9	Adams City Middle School (C	(M4) A		C70587	6	16717	2/22/24	4 6:30 AN	Л 25	2/22/24	7:31 AM	2	x	-	1	_	u	_	\dashv
10	Monroe Street (CM8)	A		C70716	6	14884	2/22/24	4 6:40AN	1 25	2/22/24	7:40AM	3	x	+		101	-	7	
11	Brighton Fire Deparment (B	FD) A		C70538	6	16721	2/22/24	4 7:05 AN	1 25	2/22/24	8:05 AM	2	x	+	\vdash	+	\vdash	\dashv	\dashv
12	E470/I25 (JUNC)	Α		C70551	6	16729	2/22/24	4 7:22 AN	1 25	2/22/24	8:23 AM	2	x	+-		+-	\vdash	\dashv	\dashv
13	National Jewish Hopsital (N.	JH) A		C70570	6	16726	2/22/24	7:44 AN	1 25	2/22/24	8:49 AM	1	x		+	+-		\dashv	\dashv
			ature			Print I	Name		C	ompany /	Title				ite / T	ime			4
	linquished By:		18	337		Curtis N	euhring			Montros		+	-		/23/2	-	_	_	\dashv
_		de Sula			6	Frigh S	sulal		Enth		ecn	21	21-1	240	20 120	(202	_	-	\dashv
	linquished By:					J			12.10	77	acr.	4	401	470	- 1	0 .	O		\dashv
² Re	ceived By:					•							-						\dashv
³ Re	linquished By:											_							\dashv
³ Re	ceived By:			" "					——————————————————————————————————————	-,		-							

1 1 1

APPENDIX B AIR SAMPLING RESULTS AND SCREENING RISK ASSESSMENT

CCND Community Monitoring February 22, 2024 (Q1 2024)

Air Monitoring Network Summa Canister Results

								Reference Sites									
Compound Name	Cas No.	AEGL 1 60 min Value (ppb)	Health Based Reference Level (ppb)	Source	CM1 - Rose	CM2 - RBC	CM3 - Adams High School	CM4 - Adams Middle School	CM5 - Central	CM6 - Focus	CM7 - Kearney	CM8 - Monroe	CM9 - 48th and Race	CM10 - Alsup Elementary School	BFD- Brighton	JUNC- E470/I25	National Jewish Hospital
1-Butene	106-98-9	NR	27,000	TCEQ Short-Term AMCV	0.063 (J)	0.095 (J)	0.06 (J)	0.25 (J)	0.1 (J)	< 0.041	0.12 (J)	0.12 (J)	0.071 (J)	0.17 (J)	< 0.042	0.045 (J)	0.071 (J)
1-Hexene	592-41-6	NR	500	TCEQ Short-Term AMCV		< 0.04		< 0.04									
1-Pentene	109-67-1	NR	12,000	TCEQ Short-Term AMCV	< 0.041	0.075 (J)	< 0.04	0.15 (J)	0.05 (J)	< 0.041	0.058 (J)	0.073 (J)	< 0.046	0.15 (J)	< 0.042	< 0.041	0.043 (J)
1,2,3-Trimethylbenzene 1,2,4-Trimethylbenzene	526-73-8 95-63-6	140,000 140,000	3,000	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	< 0.037 0.06 (J)	0.066 (J) 0.084 (J)	0.064 (J) 0.048 (J)	0.077 (J) 0.17 (J)	< 0.036 0.07 (J)		0.066 (J) 0.11 (J)	< 0.039 0.068 (J)	< 0.041 0.074 (J)	0.11 (J) 0.19 (J)	0.091 (J) < 0.033	< 0.037 0.039 (J)	0.07 (J) 0.062 (J)
1,3-Butadiene	106-99-0	670,000	298	OEHHA Acute REL	0.051 (J)	0.055 (J)	< 0.032	0.11 (J)	< 0.032	< 0.033	0.081 (J)	< 0.034	0.068 (J)		< 0.034	< 0.033	0.048 (J)
1,3-Diethylbenzene	141-93-5	NR	450	TCEQ Short-Term AMCV	< 0.036	< 0.037	0.13 (J)	< 0.036			< 0.04	0.038 (J)	< 0.04	0.11 (J)	0.14 (J)		< 0.035
1,3,5-Trimethylbenzene	108-67-8	140,000	3,000	TCEQ Short-Term AMCV	< 0.032	< 0.033	< 0.031	0.053 (J)	< 0.031	< 0.032	< 0.035	< 0.034	< 0.036	0.058 (J)	< 0.033	< 0.032	< 0.032
1,4-Diethylbenzene 2-Ethyltoluene	105-05-5 611-14-3	NR NR	450 250	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	0.063 (J) < 0.039	0.046 (J) < 0.04	< 0.038 < 0.038	0.057 (J) 0.057 (J)	< 0.038	0.047 (J) < 0.039	< 0.043 < 0.043	< 0.041	0.069 (J) < 0.043	< 0.038 0.047 (J)	0.17 (J) 0.065 (J)	0.094 (J) < 0.039	0.15 (J) < 0.038
2-Methylheptane	592-27-8	NR	4.100	TCEO Short-Term AMCV	< 0.033	< 0.041	< 0.039	0.086 (J)	0.053 (J)	< 0.039	< 0.043	0.063 (J)	< 0.045	0.1 (J)	< 0.041	< 0.04	< 0.038
2-Methylhexane	591-76-4	NR	8,300	TCEQ Short-Term AMCV	0.15 (J)	0.19 (J)	0.15 (J)	0.31 (J)	0.14 (J)	< 0.041	0.19 (J)	0.29 (J)		0.31 (J)		< 0.041	0.12 (J)
2-Methylpentane	107-83-5	NR	5,400	TCEQ Short-Term AMCV	0.33 (J)	0.57	0.3 (J)	1.2	0.4	0.2 (J)	0.56	0.86	0.26 (J)	1.1	0.23 (J)	0.2 (J)	0.3 (J)
2,2-Dimethylbutane 2,2,4-Trimethylpentane	75-83-2 540-84-1	NR NR	5,400 4,100	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	< 0.04 0.08 (J)	0.066 (J) 0.14 (J)	< 0.039 0.062 (J)	0.13 (J) 0.24 (J)	< 0.039 0.11 (J)	< 0.04 0.068 (J)	0.064 (J) 0.14 (J)	0.13 (J) 0.21 (J)	< 0.045 0.094 (J)	0.14 (J) 0.26 (J)	< 0.041	< 0.04 0.069 (J)	< 0.04 0.11 (J)
2,3-Dimethylbutane	79-29-8	NR	5,400	TCEQ Short-Term AMCV	< 0.08 (3)	0.14 (J) 0.12 (J)	< 0.082 (3)	0.24 (J)	< 0.11(3)	< 0.04	< 0.14(3)	0.19 (J)	< 0.045	0.25 (J)	< 0.034	< 0.04	< 0.11(3)
2,3-Dimethylpentane	565-59-3	NR	8,300	TCEQ Short-Term AMCV	0.071 (J)	0.12 (J)	0.077 (J)	0.21 (J)	0.1 (J)	< 0.039	0.15 (J)	0.16 (J)	< 0.043	0.2 (J)	< 0.04	< 0.039	0.085 (J)
2,3,4-Trimethylpentane	565-75-3	NR	4,100	TCEQ Short-Term AMCV				< 0.041		< 0.04	< 0.044			0.076 (J)		< 0.04	< 0.04
2,4-Dimethylpentane	108-08-7	NR	8,300	TCEQ Short-Term AMCV	< 0.04	< 0.041	< 0.039	< 0.04	< 0.039	< 0.04	< 0.044	0.07 (J)	< 0.044	0.18 (J)	< 0.041	< 0.04	< 0.039
3-Ethyltoluene 3-Methylheptane	620-14-4 589-81-1	NR NR	250 4.100	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	0.05 (J) 0.14 (J)	0.097 (J) 0.074 (J)	0.12 (J) 0.11 (J)	0.18 (J) 0.071 (J)	0.12 (J) 0.085 (J)	< 0.039 0.074 (J)	0.097 (J)	0.079 (J) 0.076 (J)	0.066 (J)	0.13 (J) 0.098 (J)	0.092 (J) 0.077 (J)	0.042 (J) 0.14 (J)	0.061 (J) 0.13 (J)
3-Methylhexane	589-34-4	NR	8,300	TCEQ Short-Term AMCV	0.14 (J)	0.074 (J) 0.27 (J)	0.11(J)	0.39(J)	0.083 (J)	0.12 (J)	0.25 (J)	0.076 (J)	0.09 (J)	0.098 (3)	0.11 (J)	0.14 (J)	0.13 (J)
3-Methylpentane	96-14-0	NR	5,400	TCEQ Short-Term AMCV	0.22 (J)	0.37 (J)	0.22 (J)	0.77	0.27 (J)	0.14 (J)	0.36 (J)	0.54	0.17 (J)	0.71	0.14 (J)	0.12 (J)	0.2 (J)
4-Ethyltoluene	622-96-8	NR	250	TCEQ Short-Term AMCV									< 0.054	0.055 (J)			
Acetylene	74-86-2	NR	25,000	TCEQ Short-Term AMCV	0.96	1.6		2	1.3	0.94	1.9	2.1	1.6		0.72	0.49	1.2
Benzene Butane	71-43-2 106-97-8	52,000 5.500.000	9 92,000	ATSDR Acute MRL TCEQ Short-Term AMCV	0.26 (J) 4	0.48	0.19 (J) 4.2	0.52	0.31 (J) 5.7	0.19 (J) 1.7	0.42 6.3	0.52	0.34 (J) 1.9		0.18 (J) 3.2	0.21 (J) 2.6	0.26 (J) 3.4
Carbon disulfide	75-15-0	13,000	1,990	OEHHA Acute REL	< 0.03	< 0.031	< 0.029	< 0.031	< 0.029	< 0.03	< 0.033	< 0.032	< 0.034	0.04 (J)	< 0.031	< 0.03	< 0.03
Cis-2-Butene	590-18-1	NR	15,000	TCEQ Short-Term AMCV	< 0.04	0.088 (J)	< 0.039	0.31 (J)	0.087 (J)	< 0.041	0.12 (J)	0.068 (J)	< 0.045	0.26 (J)	< 0.042	< 0.041	< 0.04
Cis-2-Pentene	627-20-3	NR	12,000	TCEQ Short-Term AMCV	< 0.037	< 0.039	< 0.036	0.12 (J)	< 0.036	< 0.038	< 0.041	< 0.039	< 0.042	0.13 (J)	< 0.039	< 0.038	< 0.037
Cyclohexane	110-82-7	NR	1,000	TCEQ Short-Term AMCV	0.11 (J) < 0.038	0.11 (J) 0.14 (J)	0.15 (J) 0.09 (J)	0.24 (J) 0.25 (J)	0.089 (J) < 0.037	0.05 (J) < 0.038	0.15 (J) 0.11 (J)	0.19 (J) 0.17 (J)	0.069 (J) < 0.042	0.26 (J) 0.25 (J)	0.097 (J) < 0.039	0.063 (J) < 0.038	0.088 (J) 0.079 (J)
Cyclopentane Decane	287-92-3 124-18-5	NR NR	5,900 1,000	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	< 0.038	0.14 (J) 0.054 (J)	0.09 (J)	0.25 (J) 0.071 (J)	< 0.037	< 0.038	< 0.044	0.17 (J) 0.052 (J)	< 0.042	0.23 (J)	0.067 (J)	< 0.038	(C) 0.079 < 0.039
Dodecane	112-40-3	NR	1,720	CDPHE Acute	0.041 (B,J,b)			0.086 (B,J,b)	< 0.037		0.095 (B,J,b)	< 0.04			0.3 (B,J,b)	0.24 (B,J,b)	0.1 (B,J,b)
Ethane	74-84-0	NR	NA	NA	14	23				14	20		38	29	14	11	17
Ethylbenzene	100-41-4	33,000	5,000	ATSDR Acute MRL	0.062 (J)	0.11 (J)	0.061 (J)	0.15 (J)	0.076 (J)	0.054 (J) 1 9	0.11 (J)	0.13 (J) 4.5	0.086 (J) 7 1		< 0.034	0.041 (J)	0.077 (J)
Ethylene Heptane	74-85-1 142-82-5	NR NR	500,000 8,300	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	0.16 (J)	0.24 (J)	0.2 (J)	4.6 0.38	0.2 (J)	0.075 (J)	3.5 0.22 (J)	0.31 (J)	0.11 (J)		0.12 (J)	0.12 (J)	0.16 (J)
Hexane	110-54-3	NR	5,400	TCEQ Short-Term AMCV	0.43	0.68	0.61	1.3	0.5	0.23 (J)	0.59	0.97	0.3 (J)		0.41	0.32 (J)	0.42
Isobutane	75-28-5	NR	33,000	TCEQ Short-Term AMCV	1.3	2.2		5.8	1.8	0.68	2	3.4	0.69	5.1	1.4	0.93	1.1
Isopentane	78-78-4	NR	68,000	TCEQ Short-Term AMCV	1.4	3	2.7	8.8	2.1		2.4	5.5	0.78		1.1	0.82	1.2
Isoprene	78-79-5 98-82-8	NR 50,000	1,400 510	TCEQ Short-Term AMCV TCEQ Short-Term AMCV	< 0.04	0.064 (J)	< 0.039	< 0.041	< 0.039	0.06 (J)	< 0.045		< 0.045	0.04 (J) < 0.029	< 0.041 < 0.031	< 0.04	< 0.04
Isopropylbenzene m,p-Xylenes	108-38-3	130,000	2,000	ATSDR Acute MRL	0.18 (J)	0.35 (J)	0.16 (J)	0.5 (J)	0.23 (J)	0.15 (J)	0.34 (J)	0.32 (J)	0.26 (J)		< 0.1	0.12 (J)	0.22 (J)
Methylcyclohexane	108-87-2	NR	4,000	TCEQ Short-Term AMCV	0.12 (J)	0.16 (J)	0.13 (J)	0.26 (J)	0.13 (J)	< 0.04	0.18 (J)	0.22 (J)	< 0.045	0.43	0.12 (J)	0.11 (J)	< 0.04
Methylcyclopentane	96-37-7	NR	750	TCEQ Short-Term AMCV	0.2 (J)	0.3 (J)	0.23 (J)	0.56	0.23 (J)	0.11 (J)	0.28 (J)	0.39 (J)	0.15 (J)		0.17 (J)	0.15 (J)	0.19 (J)
n-Octane	111-65-9	NR	4,100	TCEQ Short-Term AMCV	0.062 (J)	0.09 (J)	0.098 (J)	0.12 (J)	0.068 (J)	< 0.04	0.075 (J)	0.094 (J)	< 0.044	0.19 (J)	< 0.041	0.067 (J)	0.076 (J)
Naphthalene Nonane	91-20-3 111-84-2	NR NR	95 3.000	TCEQ Short-Term AMCV TCEO Short-Term AMCV	< 0.05	< 0.051 0.069 (J)	< 0.049 0.06 (J)	< 0.051 0.083 (J)	< 0.049 0.045 (J)	< 0.039	< 0.055 0.048 (J)	< 0.052 0.063 (J)	< 0.056	< 0.048 0.12 (J)	< 0.051 0.046 (J)	< 0.05 0.041 (J)	< 0.05 0.048 (J)
o-Xylene	95-47-6	130,000	1,700	ATSDR Acute MRL	0.065 (J)	0.12 (J)	0.063 (J)	0.17 (J)	(L) 80.0	0.053 (J)	0.12 (J)	0.13 (J)	0.085 (J)		< 0.034	0.041 (J)	0.081 (J)
Pentane	109-66-0	NR	68,000	TCEQ Short-Term AMCV	1.2	3.1	1.5	6.4	1.7	0.77	1.9	4	0.87	4.8	1.2	0.87	1.4
Propane	74-98-6	5,500,000	NA	NA	6.6		7.5	13		7.9	9.5			13		6	5.1
Propylbenzene	103-65-1	NR	510	TCEQ Short-Term AMCV				< 0.031		< 0.031	< 0.034			0.037 (J)		< 0.031	< 0.031
Propylene Tetrachloroethene	115-07-1 127-18-4	NR 35,000	NA 6	NA ATSDR Acute MRL	< 0.036	0.044 (J)	0.093 (J)	0.08 (J)	0.042 (J)	< 0.036	0.041 (J)	0.077 (J)	< 0.04	0.093 (J)	0.12 (J) < 0.037	0.26 (J) < 0.036	< 0.035
Toluene	108-88-3	67,000	2,000	ATSDR Acute MRL	0.42	0.97	2.2	1	0.53	0.38	0.75	0.91	0.53	1.9	0.34	0.32 (J)	0.54
Trans-2-Butene	624-64-6	NR	15,000	TCEQ Short-Term AMCV	< 0.038	0.084 (J)	< 0.037	0.41	0.075 (J)	< 0.038	0.093 (J)	< 0.04	< 0.043	0.29 (J)		< 0.038	< 0.038
Trans-2-Pentene	646-04-8	NR	12,000	TCEQ Short-Term AMCV	< 0.047	0.062 (J)	< 0.045	0.22 (J)	0.06 (J)	< 0.047	0.065 (J)	< 0.049	< 0.052	0.24 (J)	< 0.048	< 0.047	< 0.046
Undecane	1120-21-4	NR	550	TCEQ Short-Term AMCV	< 0.039	0.044 (J,b)	< 0.038	0.054 (J,b)	< 0.038	< 0.04	< 0.044	0.045 (J,b)	< 0.044	0.086 (J,b)	0.13 (J,b)	0.066 (J,b)	0.04 (J,b)

Laboratory non-detections are reported as less than ("<") the MDL.

Result qualifiers are reported to the right of corresponding detections (in parentheses).

⁽J) flag indicates an estimated value when the concentration is below the reporting limit but above the method detection limit.

⁽B) flag indicates contamination was found in associated laboratory method blank.

⁽BJ) flag indicates high responses observed in the lab calibration sample; less than reporting limit.

NA = Not Available

 $^{{\}sf NR} = {\sf According\ to\ EPA,\ AEGL\ is\ "Not\ Recommended\ due\ to\ insufficient\ data"}$

CCND Community Monitoring February 22, 2024 (Q1 2024)

THIS IS THE LAST PAGE OF THIS DOCUMENT