



October I, 2021

# **Commerce City Community-Wide Impacts Report**

City of Commerce City 7887 East 60th Avenue Commerce City, Colorado

Prepared for:

City of Commerce City 7887 East 60th Avenue Commerce City, CO 80022

Pinyon Project No.: 1/21-1435-01









October I, 2021

# **Commerce City Community-Wide Impacts Report**

City of Commerce City 7887 East 60th Avenue Commerce City, Colorado

**Prepared for:** 

City of Commerce City 7887 East 60th Avenue Commerce City, CO 80022

Pinyon Project No.: 1/21-1435-01

Prepared by:

Anthony Der Tatevasion Air Quality Specialist

Anthony Der Tatevasion

Reviewed by:

Kaitlin Meszaros Air Quality Specialist

**Dustin Collins** 

Technical Group Manager Air Quality and Noise



# **Table of Contents**

Exe	cutive	Summary	l
١.	Intro	ductionduction	2
	1.1	Study Area	2
	1.2	Source Types	3
	1.3	Air Permit Thresholds	3
2.	Sumr	narizing and Interpreting Data	7
	2.1	Source Emissions Data from Air Permits	7
	2.2	Source Emissions Data from Well Records	7
3.	Mobi	le Sources	8
	3.1	Interstate 270	8
	3.2	State Highway 265	8
	3.3	Interstate 76	8
4.	Natio	onal Ambient Air Quality Standards (NAAQS)	9
5.	Nitro	gen Oxides (NO <sub>x</sub> )	10
	5.1	NO <sub>x</sub> Health Concerns	10
	5.2	Summary of NO <sub>x</sub> Emissions	10
	5.3	Sources of NO <sub>x</sub> Emissions	11
	5.4	Locations of NO <sub>x</sub> Emissions	11
	5.5	Breakdown of NO <sub>x</sub> Emissions	12
6.	Carb	on Monoxide (CO)	14
	6. I	CO Health Concerns	14
	6.2	Summary of CO Emissions	14
	6.3	Sources of CO Emissions	15
	6.4	Locations of CO Emissions	15
	6.5	Breakdown of CO Emissions	16
7.	Volat	ile Organic Compounds (VOCs)	18
	<b>7.</b> I	VOC Health Concerns	18
	7.2	Summary of VOC Emissions	18
	7.3	Sources of VOC Emissions	19
	7.4	Locations of VOC Emissions	19
	7.5	Breakdown of VOC Emissions	20
8.	Sulfu	Dioxide (SO <sub>2</sub> )	22
	8.1	SO <sub>2</sub> Health Concerns	22



	8.2	Summary of SO <sub>2</sub> Emissions	22
	8.3	Sources of SO <sub>2</sub> Emissions	23
	8.4	Locations of SO <sub>2</sub> Emissions	23
	8.5	Breakdown of SO <sub>2</sub> Emissions	24
9.	Partic	ulate Matter less than 10 micrometers in diameter (PM <sub>10</sub> )	26
	9.1	PM <sub>10</sub> Health Concerns	26
	9.2	Summary of PM <sub>10</sub> Emissions	26
	9.3	Sources of PM <sub>10</sub> Emissions	27
	9.4	Locations of PM <sub>10</sub> Emissions	27
	9.5	Breakdown of PM <sub>10</sub> Emissions	28
10.	Partic	ulate Matter less than 2.5 micrometers in diameter (PM <sub>2.5</sub> )	30
	10.1	PM <sub>2.5</sub> Health Concerns	30
	10.2	Summary of PM <sub>2.5</sub> Emissions	30
	10.3	Sources of PM <sub>2.5</sub> Emissions	31
	10.4	Locations of PM <sub>2.5</sub> Emissions	31
	10.5	Breakdown of PM <sub>2.5</sub> Emissions	32
11.	Total	Hazardous Air Pollutants (HAPs)	34
	11.1	Total HAPs Health Concerns	34
	11.2	Summary of Total HAPs Emissions	34
	11.3	Sources of Total HAPs Emissions	35
	11.4	Locations of Total HAPs Emissions	35
	11.5	Breakdown of Total HAPs Emissions	36
12.	Meth	ane (CH <sub>4</sub> )	38
13.	Intera	ctive Story Map	39
14.	Data	Gaps	40
15.	Refer	ences	41
Та	bles		
Tabl	e I-I	CDPHE Air Permit Thresholds	4
Tabl	e 5-1	Ten (10) Highest Sources of NO <sub>x</sub> Emissions	10
Tabl	e 5-2	NO <sub>x</sub> Emissions Percentage of Commerce City in County and State Regions	12
Tabl	e 6-1	Ten (10) Highest Sources of CO Emissions	14
Tabl	e 6-2	CO Emissions Percentage of Commerce City in County and State Regions	16



Table 7-1	Ten (10) Highest Sources of VOC Emissions	18
Table 7-2	VOC Emissions Percentage of Commerce City in County and State Regions	20
Table 8-1	Ten (10) Highest Sources of SO <sub>2</sub> Emissions	22
Table 8-2	SO <sub>2</sub> Emissions Percentage of Commerce City in County and State Regions	24
Table 9-1	Ten (10) Highest Sources of PM <sub>10</sub> Emissions	26
Table 9-2	PM <sub>10</sub> Emissions Percentage of Commerce City in County and State Regions	28
Table 10-1	Ten (10) Highest Sources of PM <sub>2.5</sub> Emissions	30
Table 10-2	PM <sub>2.5</sub> Emissions Percentage of Commerce City in County and State Regions	32
Table II-I	Ten (10) Highest Sources of Total HAPs Emissions	34
Table 11-2	Total HAPs Emissions Percentage of Commerce City in County and State Regions	36
Figures		
Figure I	Study Area	
Figure 2	Facility NO <sub>x</sub> Emissions	
Figure 3	Facility CO Emissions	
Figure 4	Facility VOC Emissions	
Figure 5	Facility SO <sub>2</sub> Emissions	
Figure 6	Facility PM <sub>10</sub> Emissions	
Figure 7	Facility PM <sub>2.5</sub> Emissions	
Figure 8	Facility Total HAPs Emissions	
Append	ices	
Appendix A	. Nitrogen Oxides (NOx) Emissions Summary	
Appendix B	. Carbon Monoxide (CO) Emissions Summary	
Appendix C	. Volatile Organic Compounds (VOCs) Emissions Summary	
Appendix D	2. Sulfur Dioxide (SO <sub>2</sub> ) Emissions Summary	
Appendix E	Particulate Matter less than 10 micrometers in diameter ( $PM_{10}$ ) Emissions Summary	
Appendix F	Particulate Matter less than 2.5 micrometers in diameter (PM <sub>2.5</sub> ) Emissions Summary	r
Appendix G	i. Total Hazardous Air Pollutants (HAPs) Emissions Summary	



# **Revision History**

Version	Editor	Date	Discussion
0	Pinyon Environmental, Inc.	July 9, 2021	First Version
I	Pinyon Environmental, Inc.	October I, 2021	Updated report to incorporate review comments made by Domenic Martinelli of Commerce City.



# **Executive Summary**

Pinyon Environmental, Inc. (Pinyon) prepared this community-wide impacts report for the City of Commerce City (Commerce City). This report provides a comprehensive summary involving air pollutant data collected in and within a ½ mile radius of Commerce City. Data were acquired from active air permits issued by the Colorado Department of Public Health (CDPHE) Air Pollution Control Division (APCD), in addition to oil and gas wells in operation reported by the Colorado Oil and Gas Conservation Commission (COGCC). The purpose of this report, including associated tables, figures, and online Story Map (see Section 12), is to provide air pollutant source data to Commerce City personnel and to inform the public on types, amounts, and locations of air pollutant sources.

Pinyon acquired air pollutant source data, including but not limited to the following CDPHE-classified source types:

- petroleum refining and related industries,
- food and kindred products,
- electric gas and sanitary services (e.g., landfills and sewage systems),
- oil and gas extraction and related services (e.g., terminals and storage facilities), and
- other industrial services (e.g., manufacturing plants, gas stations, auto repair shops, emergency power generation, etc.).

Pinyon created tables, figures, and an online story map organizing the data from active air permits on file with APCD. Facility locations where there is the potential to emit a specific pollutant can be found in Figures 2 through 8. Appendices A through G provide the same emissions data in a tabulated format for the following air pollutants:

- Nitrogen Oxides (NO<sub>x</sub>) criteria pollutant
- Carbon Monoxide (CO) criteria pollutant
- Volatile Organic Compounds (VOCs) regulated pollutant
- Sulfur Dioxide (SO<sub>2</sub>) criteria pollutant
- Particulate Matter less than 10 micrometers in diameter (PM<sub>10</sub>) criteria pollutant
- Particulate Matter less than 2.5 micrometers in diameter (PM<sub>2.5</sub>) criteria pollutant
- Total Hazardous Air Pollutants (HAPs) toxic air pollutants



#### I. Introduction

Pinyon prepared this community-wide impacts report for Commerce City. The report includes a summary of sources emitting pollutants in and within a  $\frac{1}{2}$  mile radius around Commerce City (Figure I) to inform the public of pollutants recognized by the U.S. Environmental Protection Agency (U.S. EPA). The eight (8) air pollutants discussed and analyzed in this report include Nitrogen Oxides (NO<sub>x</sub>), Carbon Monoxide (CO), Volatile Organic Compounds (VOCs), Sulfur Dioxide (SO<sub>2</sub>), Particulate Matter less than 10 micrometers in diameter (PM<sub>10</sub>), Particulate Matter less than 2.5 micrometers in diameter (PM<sub>2.5</sub>), and Total Hazardous Air Pollutants (HAPs).

Pinyon compiled emission source data in and within a ½ mile radius around Commerce City from current air permit information maintained by APCD and existing oil and gas wells in operation reported by COGCC. Pinyon did not evaluate mobile and non-road, and on-road sources of pollution such as vehicle exhaust, tractor-trailers, lawnmowers, wood-burning fires, etc., as these are not stationary sources that require any sort of documentation of emissions. For additional information on mobile source pollution and related health effects, you can visit the following link: <a href="https://www.epa.gov/mobile-source-pollution">https://www.epa.gov/mobile-source-pollution</a>. Information on CDPHE APCD air permit requirements can be found in Section 1.3 of this report.

A complete list of the specific facilities for which there are estimated actual annual emissions from the listed air pollutants discussed in this report is further analyzed in Section 2, and the pollutant-specific tables are included as appendices. Pinyon's approach to gathering data presented in this report involved the following:

- 1. Extracting numerical data, information, and air pollutant emissions by source type from sources of emissions reported and issued air permits by APCD.
- 2. Verification of the operational status of oil and gas wells per current well information reported by COGCC.
- 3. Transcription of data into a master table for each pollutant type; recording source names, source descriptions, source locations, and total estimated actual annual emissions in tons per year (tons/yr) by the facility.
- 4. Facility locations of collected emissions data were georeferenced, and maps were created for the graphic presentation of emissions data.

# I.I Study Area

Commerce City is a municipality located north of Denver within Adams County and comprises, amongst other things, houses, parks, industrial businesses, and highways. Industries of note in the area include petroleum refineries, oil and gas well production facilities, landfills, and electricity-generating plants, among others. As of 2021, Commerce City has an estimated population of 64,612 people (Commerce City Community Development Department, 2021).

Notable emitters of air pollution in and within a  $\frac{1}{2}$  mile radius around Commerce City include but are not limited to:

- Suncor Energy Denver Petroleum Refinery
- Public Service Co. Cherokee Electrical Generation Plant



- Allied Waste Systems Tower Landfill
- Ardent Mills Commerce City Flour Mill
- Oil and Gas Well Production Facilities

## 1.2 Source Types

One hundred fifty-four (154) unique sources of air pollution have been collected and analyzed within the study area. This community-wide impacts report is divided into the following source categories: petroleum refining and related industries, electric and sanitary services, oil and gas extraction, food and kindred products, and other industrial manufacturing services. Source classification for each source of emissions represented in this report was chosen by the owner/operator using the North American Industry Classification System (NAICS) and confirmed by APCD before permitting issuance. Pinyon chose the following source classification breakdown to highlight the variety of industries present within the study area and does not necessarily indicate that emissions originating from one source or industry have a more significant impact on public health than another.

Sources of air pollution in and within a  $\frac{1}{2}$  mile radius around Commerce City were separated into the following overarching source types and included but is not limited to:

- Petroleum Refining and Related Industries: refining, blending of lubricants and glycol, recycle plants, asphalt batch plants, asphalt paving, liquid asphalt blending, storage, and distribution, and hot mix asphalt plants
- <u>Electric Gas and Sanitary Services</u>: power generation plants, sewage systems, landfills, and water supply
- Oil and Gas Extraction and Related Services: well production facilities, petroleum products storage, distribution pipelines, and operation of vapor control equipment
- Food and Kindred Products: animal feed manufacturing facilities, flour mills, bread and bun bakeries, milk plants, and the operation of grain elevators
- Other Industrial Sources: bakeries, concrete manufacturing plants, retail gas stations, convenience stores, industrial laundry facilities, cremation facilities, millwork operations, corrugated paper products manufacturing, waste management facilities, government facilities, auto body repair shops, etc.

#### 1.3 Air Permit Thresholds

CDPHE Regulation 3 outlines the applicability and requirements for stationary source permits and Air Pollution Emission Notice (APEN). Certain facilities and emissions sources are exempt from APEN and permit requirements based on their purpose, agency-determined emissions impact, and size. Should an emissions source not fall into one of the 84 listed exempted sources, APEN and permit applicability to depend on emissions from criteria and non-criteria reportable pollutants such as those addressed in this report.

Regulation 3 Section II.B.3 states that APENs are required if any of the following conditions are met (CDPHE, 2021):

 For nonattainment areas, each emissions point with actual uncontrolled emissions of one ton per year or more of any individual regulated pollutant for which the area is nonattainment



- For attainment areas, each emissions point in an attainment or attainment/maintenance area with actual uncontrolled emissions of two tons per year or more of any individual criteria pollutant
- Each emissions point with actual uncontrolled emissions of lead greater than 100 pounds per year
- Each emissions point with actual uncontrolled emissions of 250 pounds or more per year of any noncriteria reportable pollutant (regulated pollutant with emission limits but no National Ambient Air Quality Standards, NAAQS)

Regulation 3 Section II.D.2 and Section II.D.3 states that construction permits are required if total facility uncontrolled actual emissions equal or exceed the following thresholds depending on if the facility is located in a nonattainment or attainment/maintenance area (Table 1-1):

Table I-I. CDPHE Air Permit Thresholds

Pollutant	Nonattainment Area Permit Threshold <sup>1</sup>	Attainment Area Permit Threshold	Number of Facilities (Per Pollutant) Subject to Permit Requirements
NO <sub>x</sub>	5 tons per year	10 tons per year	П
СО	5 tons per year	10 tons per year	15
VOC	2 tons per year	5 tons per year	64
PM <sub>10</sub>	I ton per year	5 tons per year	34
PM <sub>2.5</sub>	I ton per year	5 tons per year	24
TSP	5 tons per year	10 tons per year	Not Applicable
SO <sub>2</sub>	5 tons per year	10 tons per year	5
Lead	200 pounds per year	200 pounds per year	Not Applicable

Nonattainment is a geographic area that does not meet NAAQS established by the Clean Air Act and enforced by U.S. EPA.

Regulation 3 Section I.B.25 states that sources that meet the definition of Major Source are subject to the operating permit program. The following stationary sources are major sources (CDPHE, 2021):

- Sources that directly emit, or have the potential to emit, 10 tons per year or more any single hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants.
- Sources that directly emit, or have the potential to emit, 100 tons per year or more of any pollutant subject to regulation.
- Sources subject to the Acid Rain Program.
- Sources that are subject to specific New Source Performance Standards or National Emission Standards for Hazardous Air Pollutants (e.g., landfills that are affected facilities under NSPS Subpart WWW).



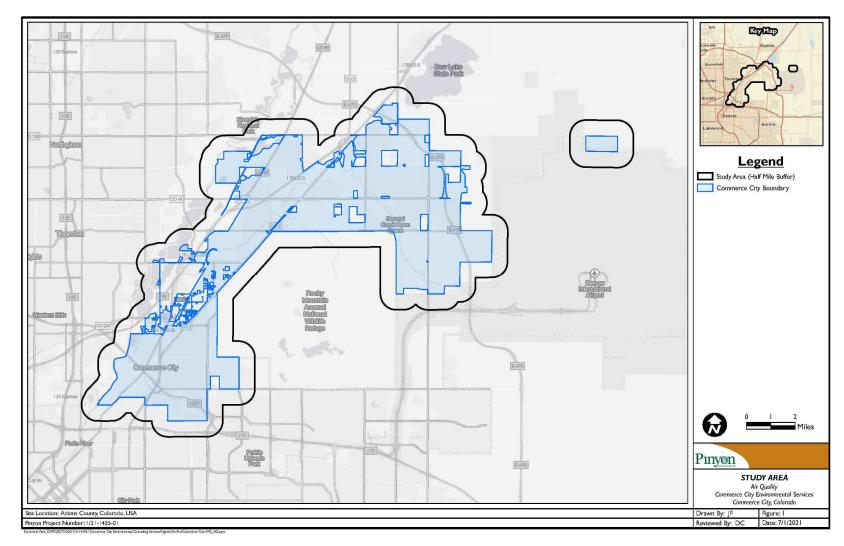
 Sources that meet the definition of Major Stationary Source in Colorado Regulation No. 3, Part D, Section II.A.25.

Commerce City is located in the Denver Metro/North Front Range ozone nonattainment area, which was classified as a serious nonattainment area effective January 27, 2020 (U.S. EPA, 2021a). Ozone is a secondary pollutant that is formed by NOx and VOC emissions in the atmosphere. As a result, the major stationary source thresholds for NOx and VOC are lower than those in other areas. Specifically, a source that emits or has the potential to emit 50 tons per year or more of NOx or 50 tons per year or more of VOC is a major stationary source and is therefore subject to the operating permit program.

Please note not all sources of pollution are required to obtain an air permit. For example, sources that emit pollution at rates less than the above thresholds are not required to obtain a permit. Additionally, permit requirements can change, affecting the eligibility of sources presented in this report from reporting emissions in the future or requiring new emissions sources to obtain a permit. Because of those limitations, it's possible minimal emission sources were not identified in our searches and thus are not included in this report.



Figure I. Study Area





# 2. Summarizing and Interpreting Data

Pinyon utilized data from several regulatory agencies in Colorado to prepare this community-wide impacts report for Commerce City. First, Pinyon extrapolated source data from active air permits on file with APCD and performed a data check for red flags and inconsistencies. Second, Pinyon identified oil and gas wells from well completion records on file with COGCC, including confirmation of their current operating status and discussions with Commerce City personnel. Finally, emissions source data in the study area were compared to nearby county total emissions estimates and state-wide total emissions estimates to provide insight into how air quality emissions within the study area compared to the remainder of Colorado.

Pinyon has extracted and consolidated  $NO_x$ , CO, VOC,  $SO_2$ ,  $PM_{10}$ ,  $PM_{2.5}$ , and Total HAPs data from active air permits. These data have been summarized into the following formats: tables, raw data transcribed into a master spreadsheet in Microsoft Excel; report figures; and an Arc GIS story map with interactive features.

#### 2.1 Source Emissions Data from Air Permits

Numerous air pollutant source data have been collected in the study area released by APCD. Source emissions locations have been separated by pollutant type listed in Appendix A through G and illustrated in Figures 2 through 8. Source emissions rates extracted from each permit are represented as the estimated total actual emissions of each source. Please note air permits on file with APCD must complete a routine five (5) year renewal for an existing permitted source or report minor changes in emissions, production, or equipment by the following April after the change. Therefore, it is possible emissions estimates represented in this report have changed and are currently applying for an updated, modified, or renewal air permit.

Pinyon received data of source emissions rates from all active air permits on file with the APCD for the air pollutants specified in this report. Air permits present emissions data as an annual rate, generally in tons/yr units. Data was reviewed and compiled into tables based on pollutant type, source type, source description, and source total emissions rates in tons/yr. Emissions rates are represented from highest to lowest annual emissions in tons/yr. The top ten highest sources of emissions are represented in tables within each pollutant-specific section of this report.

It is possible that a facility exceeded the construction and/or APEN threshold for one pollutant and not another. Therefore, only the estimated actual emissions totals presented in this report and filed with APCD are for sources and pollutants that require an APEN and/or permit. For example, several industrial facilities presented in this report did not exceed nonattainment permit thresholds for  $NO_x$  or CO. Still, they did for  $PM_{1.0}$  and  $PM_{2.5}$ , and thus those facilities were required to obtain a permit, and all pollutant emissions were then reported.

#### 2.2 Source Emissions Data from Well Records

Sources originating from oil and gas wells located within the study area were individually found in COGCC well site records to verify operational status. The oil and gas wells analyzed in this report are all currently "shut-in." The COGCC defines a shut-in well as "a well which is capable of producing but is not presently producing" (COGCC, n.d.). These wells are not actively producing product due to various factors, including a lack of a sustainable market, a lack of facilities to produce the product, or other cases defined within the shut-in provisions contained in the oil and gas lease. Although there are no actively producing wells located in the study area, Pinyon has chosen to include associated emissions in the pollutant totals due to these wells ability to begin producing oil and gas products again at any time.



#### 3. Mobile Sources

The U.S. EPA has classified mobile sources of air pollution to include vehicles, engines, and equipment, that can be categorized as either on-road mobile sources (e.g., heavy-duty trucks, buses, passenger cars, and motorcycles) or non-road mobile sources (e.g., locomotives, marine vessels, construction equipment, lawn, garden, and snow equipment, personal recreation equipment, etc.) (U.S. EPA, 2020). Emissions associated with mobile sources include combustion pollutants such as CO and  $NO_X$  which can contribute to ozone formation. Additionally, vehicle exhaust emissions can be a source of particulate matter. A list of major roadways within the study area has been identified below, and an overview of vehicle miles traveled (VMT) and proximity to concentrated areas of pollutants.

#### 3.1 Interstate 270

Interstate 270 (I-270) is a 7-mile-long highway in the northeastern portion of the Denver Metropolitan Area. I-270 enters Commerce City, where the highway crosses over the South Platte River and exits Commerce City shortly before intersecting with Quebec St for a total expanse of 3.5-miles within the city limits. I-270 is within the immediate vicinity of clusters of emission sources indicated by a green box within the individual figures for the pollutants identified in Sections 5-11. Based on the proximity of I-270 and the cluster of emissions sources, emissions from on-road vehicles traveling on I-270 may result in heightened impacts with the southern area of Commerce City. According to the Colorado Department of Transportation, the annual average daily VMT on I-270 is 521,309 (CDOT 2021).

## 3.2 State Highway 265

Colorado State Highway 265 (SH 265) is a 3.6-mile-long highway in the northeastern portion of the Denver Metropolitan Area. SH 265 enters Commerce City, where the highway meets York Street and ends at the intersection of U.S. Route 6 (US 6) and US 85 in Commerce City for a total expanse of approximately 2.4-miles within the city limits. SH 265 is within the immediate vicinity of clusters of emission sources indicated by a green and a blue box within the individual figures for the pollutants identified in Sections 5-11. Based on the proximity of SH 265 and the cluster of emissions sources, emissions from on-road vehicles traveling on SH 265 may result in heightened impacts along the southern and western areas of Commerce City. According to the Colorado Department of Transportation, the annual average daily VMT on SH-265 is 15,363 (CDOT 2021).

#### 3.3 Interstate 76

Interstate 76 (I-76) is a 187-mile highway spanning from Arvada, Colorado, to Big Springs, Nebraska. From the intersection of I-76 and I-270 in the Denver Metropolitan Area, I-76 travels parallel and at specific points through the western boundary of Commerce City, ending at the junction with Colorado State Highway 470 for a total expanse of approximately 12.1-miles. I-76 is within the immediate vicinity of clusters of emission sources indicated by a green and a blue box within the individual figures for the pollutants identified in Sections 5-II. Based on the proximity of I-76 and the emissions sources, emissions from on-road vehicles traveling on I-76 may result in heightened impacts along the western boundary of Commerce City. According to the Colorado Department of Transportation, the annual average daily VMT on I-76 from the intersection with I-270 and ending at the junction with SH 470 is 621,462 (CDOT 2021).



# 4. National Ambient Air Quality Standards (NAAQS)

The U.S. EPA, through the CAA, regulates air pollution in an effort to protect public health. CAA regulations require stationary and mobile sources to determine their potential to emit as part of the state and federal permitting process, applicability to federal regulations, and evaluation of control technologies. As part of the CAA, U.S. EPA was required to set NAAQS for six (6) criteria pollutants that can be harmful to public health and the environment:

- Carbon Monoxide (CO),
- Lead (Pb),
- Nitrogen Dioxide (NO<sub>2</sub>) (a subset of NO<sub>x</sub>),
- Ozone (O<sub>3</sub>),
- Particle Pollution (PM), and
- Sulfur Dioxide (SO<sub>2</sub>).

The CAA identifies two types of national ambient air quality standards. Primary standards provide "public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly" (U.S. EPA, 2021b). Secondary standards proved "public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings" (U.S. EPA, 2021b). The primary and secondary NAAQS are concentrations where exceedances of the NAAQS values are a signal that public and environmental health is at risk. The NAAQS values that are generally in the units of parts per million (ppm), parts per billion (ppb), or micrograms per cubic meter ( $\mu g/m^3$ ) Periodically, the standards are reviewed and may undergo revision, establishing new standards.

Monitoring data provide ambient air concentrations that can be directly correlated to the NAAQS to determine attainment status for a specific area. Colorado has a number of ambient air monitors in the eight (8) monitoring regions defined by CDPHE APCD in its air monitoring network (CDPHE, 2020). All criteria pollutants are monitored except for lead due to the cessation of the La Casa monitor after numerous years of low concentrations. The emissions data presented in this community-wide impacts report are an integral part of the translation to ambient air concentrations; however, emissions are not a direct indication of ambient air concentration levels. Meteorological data, emission source dispersion parameters, and terrain characteristics are also informative and essential factors to determine potential public health impacts and compliance with primary and secondary NAAQS.



# 5. Nitrogen Oxides (NO<sub>x</sub>)

Nitrogen Oxides ( $NO_x$ ) are a chemical compound of oxygen and nitrogen formed during their reaction with each other when burned at high temperatures, primarily from burning fuels such as oil, diesel, and natural gas (U.S. EPA, 2016b).  $NO_x$  is a common designation of nitrogen oxides NO and  $NO_2$ .  $NO_2$ , in combination with other  $NO_x$ , can react with other chemicals in the air to form both particulate matter and ozone (U.S. EPA, 2016b).

### 5.1 NO<sub>x</sub> Health Concerns

Breathing air with elevated  $NO_x$  may affect individuals with respiratory conditions causing inflammation of the airways. Periods of short-term exposure to  $NO_2$ , a subset of  $NO_x$ , can "aggravate respiratory diseases, particularly asthma, leading to respiratory symptoms (such as coughing, wheezing, or difficulty breathing), hospital admissions, and visits to emergency rooms" (U.S. EPA, 2016b). Periods of long-term exposure to  $NO_2$  may contribute to the "development of asthma and potentially increase susceptibility to respiratory infections" (U.S. EPA, 2016b). The atmospheric chemistry determining how much  $NO_x$  is  $NO_2$  will be discussed in future analyses by Commerce City related to monitoring and modeling.

## 5.2 Summary of NO<sub>x</sub> Emissions

Using readily available data acquired from active APCD permits, 38 facilities have the potential to emit  $NO_x$ . These 38 facilities in and within a  $\frac{1}{2}$  mile of Commerce City limits total 1,215 tons/yr  $NO_x$ . In Table 5-1 below, the ten (10) highest emitters of estimated actual annual  $NO_x$  emissions have been identified.

Table 5-1. Ten (10) Highest Sources of NO<sub>x</sub> Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual NO <sub>x</sub> (tons/yr)
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	618.7
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	383.0
Metro Wastewater Reclamation District	Sewage Treatment Facility	6450 York St	70.33
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	28.72
Phillips 66 Pipeline – Denver Terminal	Petroleum Products Storage/Distribution	3960 E 56 <sup>th</sup> Ave	26.15
Adams County Government Center	Emergency Power Generation	4430 S Adams County Pkwy	13.25
Darling Ingredients Inc.	Rendering Plant (animal products)	5701 York St	9.08



Source Name	Source Description	Source Location	Facility Estimated Actual Annual NO <sub>x</sub> (tons/yr)
Crystal Packaging	Petroleum Lubricating Oil and Grease Manufacturing	9155 Boston St	8.75
Aggregate Industries – Dahlia Plant	Hot Mix Asphalt Plant	4801 E 78 <sup>th</sup> Ave	7.05
Trustile Doors, LLC	Millwork	1780 E 66 <sup>th</sup> Ave	5.70

Source: CDPHE APCD 2021

### 5.3 Sources of NO<sub>x</sub> Emissions

Sources of  $NO_x$  analyzed from data recorded in this report involve the following breakdown of industries, services, and products, including percent of total  $NO_x$  emissions estimates:

- Seven (7) petroleum refining and related industries (53% of total source emissions)
- Four (4) electric gas and sanitary services (40% of total source emissions)
- Six (6) oil and gas extraction and related services (3% of total source emissions)
- Five (5) food and kindred products (1% of total source emissions)
- Sixteen (16) other industrial services (3% of total source emissions)

### 5.4 Locations of NO<sub>x</sub> Emissions

Locations of the 38 sources of NO<sub>x</sub> analyzed from data recorded in this report are represented in Figure 2.

NO<sub>x</sub> sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Twenty-one (21) sources greater than or equal to 0.1 tons/yr and less than or equal to 5.0 tons/yr
- Five (5) sources greater than 5.0 tons/yr and less than or equal to 50.0 tons/yr
- One (I) source greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- Two (2) sources greater than 250.0 tons/yr and less than or equal to 618.7 tons/yr

 $NO_x$  sources along the western portion of the study area, west of Colorado State Highway 2 and north of E  $80^{th}$  Avenue include:

Five (5) sources greater than or equal to 0.1 tons/yr and less than or equal to 5.0 tons/yr



- One (I) source greater than 5.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- No sources greater than 250.0 tons/yr and less than or equal to 618.7 tons/yr

 $NO_x$  sources located along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

- One (1) source greater than or equal to 0.1 tons/yr and less than or equal to 5.0 tons/yr
- Two (2) sources greater than 5.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- No sources greater than 250.0 tons/yr and less than or equal to 618.7 tons/yr

## 5.5 Breakdown of NO<sub>x</sub> Emissions

Total  $NO_x$  emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated actual state-wide Colorado emissions totals, are as follows:

- Adams County 3,367 tons/yr
- Arapahoe County 895 tons/yr
- Denver County 750 tons/yr
- Weld County 13,246 tons/yr
- State-wide estimated actual emissions totals 61,187 tons/yr

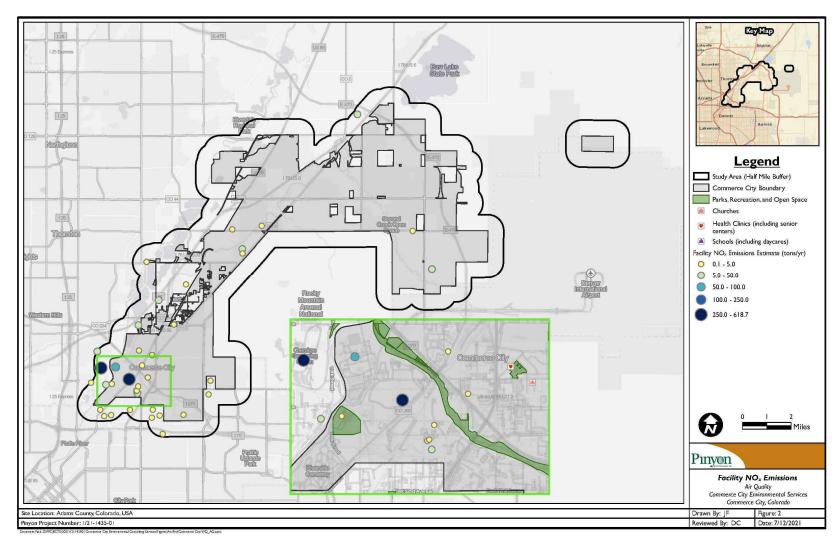
Table 5-2. NO<sub>x</sub> Emissions Percentage of Commerce City in County and State Regions

NO <sub>x</sub> Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals	
1,215 tons/yr	39%	2%	

Source: CDPHE APCD 2021



Figure 2. Facility NO<sub>x</sub> Emissions





# 6. Carbon Monoxide (CO)

Carbon Monoxide (CO) is a colorless, odorless, toxic gas produced when fossil fuels (oil, coal, natural gas) are burned. The primary sources of CO released into the atmosphere occur from motor vehicles, trucks, and other vehicles or machinery that burn fossil fuels (U.S. EPA, 2016b).

#### 6.1 CO Health Concerns

Breathing air with elevated CO "reduces the amount of oxygen that can be transported in the bloodstream to critical organs such as the heart and brain" (U.S. EPA, 2016b). Elevated levels of CO outdoors can be of concern for people with certain types of heart disease due to reduced ability for getting oxygenated blood to their hearts during situations such as exercising or under increased stress where the heart needs more oxygen than usual. During these situations, short-term exposure to elevated CO may "result in reduced oxygen to the heart accompanied by chest pain, also known as angina" (U.S. EPA, 2016b).

# 6.2 Summary of CO Emissions

Using readily available data acquired from active APCD permits, 41 facilities have the potential to emit CO. These 41 facilities in and within a ½ mile of Commerce City limits total 1,158 tons/yr CO. In Table 6-1 below, the ten (10) highest emitters of estimated actual annual CO emissions have been identified.

Table 6-1. Ten (10) Highest Sources of CO Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual CO (ton/year)
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	494.3
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	315.8
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	102.1
Phillips 66 Pipeline – Denver Terminal	Petroleum Products Storage/Distribution	3960 E 56 <sup>th</sup> Ave	69.86
Metro Wastewater Reclamation District	Sewage Treatment Facility	6450 York St	41.76
Brannan Sand & Gravel	Hot Mix Asphalt Plant	7271 Colorado Blvd	27.87
City and County of Denver - Roslyn	Government Support	5440 Roslyn St	14.20
Aggregate Industries – Dahlia Plant	Hot Mix Asphalt Plant	4801 E 78 <sup>th</sup> Ave	11.12
Sinclair – Denver Terminal	Petroleum Products Storage/Distribution	8581 E 96 <sup>th</sup> Ave	10.80
Colorado Asphalt Services	Asphalt Paving	3700 E 56 <sup>th</sup> Ave	8.87



Source: CDPHE APCD 2021

#### **6.3** Sources of CO Emissions

Sources of CO analyzed from data recorded in this report involve the following breakdown of industries, services, and products, including percent of total CO emissions estimates:

- Eight (8) petroleum refining and related industries (48% of total source emissions)
- Four (4) electric gas and sanitary services (40% of total source emissions)
- Six (6) oil and gas extraction and related services (8% of total source emissions)
- Six (6) food and kindred products (1% of total source emissions)
- Seventeen (17) other industrial services (3% of total source emissions)

#### 6.4 Locations of CO Emissions

Locations of the 41 sources of CO analyzed from data recorded in this report are represented in Figure 3.

CO sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Twenty-five (25) sources greater than or equal to 0.004 tons/yr and less than or equal to 10.0 tons/yr
- Five (5) sources greater than 10.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- Two (2) sources greater than 250.0 tons/yr and less than or equal to 500.0 tons/yr

CO sources located along the western portion of the study area, west of Colorado State Highway 2 and north of E 80<sup>th</sup> Avenue, include:

- Five (5) sources greater than or equal to 0.004 tons/yr and less than or equal to 10.0 tons/yr
- One (I) source greater than 10.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- No sources greater than 250.0 tons/yr and less than or equal to 500.0 tons/yr

CO sources located along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

- Two (2) sources greater than or equal to 0.004 tons/yr and less than or equal to 10.0 tons/yr
- No sources greater than 10.0 tons/yr and less than or equal to 100.0 tons/yr



- One (I) source greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- No sources greater than 250.0 tons/yr and less than or equal to 500.0 tons/yr

#### 6.5 Breakdown of CO Emissions

Total CO emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated actual state-wide Colorado emissions totals, are as follows:

- Adams County 2,763 tons/yr
- Arapahoe County 938 tons/yr
- Denver County 528 tons/yr
- Weld County 23,013 tons/yr
- State-wide estimated actual emissions totals 58,795 tons/yr

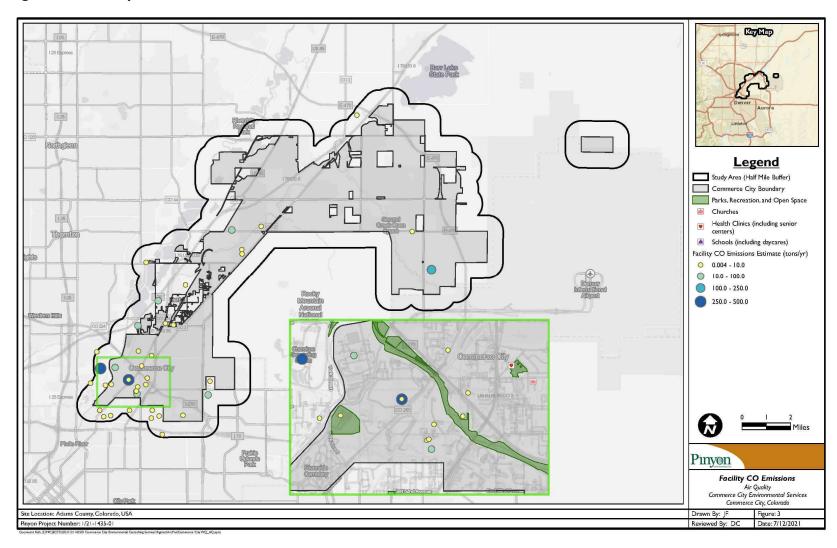
Table 6-2. CO Emissions Percentage of Commerce City in County and State Regions

CO Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals	
1,158 tons/yr	42%	2%	

Source: CDPHE APCD 2021



Figure 3. Facility CO Emissions





# 7. Volatile Organic Compounds (VOCs)

Volatile Organic Compounds (VOCs) are any "carbon compounds, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participate in atmospheric photochemical reactions" (U.S. EPA, 2017a). In short, VOCs are chemicals that both vaporize into the air and dissolve in water. During hot summer days, VOCs react with NO<sub>x</sub> to form ozone (smog). VOCs are pervasive in daily life due to their use in industry, agriculture, transportation, and day-to-day activities around the home. VOCs are emitted from various outdoor sources, including motor vehicles, chemical manufacturing facilities, refineries, and factories.

#### 7.1 VOC Health Concerns

In addition to contributing to the formation of ground-level ozone, VOCs are of concern as indoor and outdoor air pollutants. However, the emphasis of that concern outdoors is different from indoors. The main concern indoors is the potential for VOCs to adversely impact people's health that is exposed from products such as paint, varnishes, cleaning products, etc. (U.S. EPA, 2017a). While VOCs can be a health concern outdoors, U.S. EPA regulates VOCs outdoors primarily due to their ability to create photochemical smog under certain conditions, which can be harmful.

# 7.2 Summary of VOC Emissions

Using readily available data acquired from active APCD permits, 121 facilities have the potential to emit VOCs. These 121 facilities in and within a ½ mile of Commerce City limits total 1,353 tons/yr. In Table 7-1 below, the ten (10) highest emitters of estimated actual annual VOC emissions have been identified.

Table 7-1. Ten (10) Highest Sources of VOC Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual VOCs (ton/year)
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	469.0
Sinclair – Denver Terminal	Petroleum Products Storage/Distribution	8581 E 96 <sup>th</sup> Ave	128.8
Phillips 66 Pipeline – Denver Terminal	Petroleum Products Storage/Distribution	3960 E 56 <sup>th</sup> Ave	128.0
Master Builders Solutions – Brighton Facility	Adhesive Manufacturing	10601 Fulton St	65.18
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	64.87
Bimbo Bakeries, Inc.	Commercial Bakery	7300 Brighton Blvd	61.83
Magellan Pipeline Co – Dupont Terminal	Petroleum Products Storage/Distribution	8160 Krameria St	54.48
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	27.83
Cintas Corporation No. 2	Industrial Laundry	5100 Race Ct	25.27



Source Name	Source Description	Source Location	Facility Estimated Actual Annual VOCs (ton/year)
Metro Wastewater Reclamation District	Sewage Treatment Facility	6450 York St	17.46

Source: CDPHE APCD 2021

#### 7.3 Sources of VOC Emissions

Sources of VOCs analyzed from data recorded in this report involve the following breakdown of industries, services, and products, including percent of total VOC emissions estimates:

- Eight (8) petroleum refining and related industries (36% of total source emissions)
- Four (4) electric gas and sanitary services (8% of total source emissions)
- Fourteen (14) oil and gas extraction and related services (26% of total source emissions)
- Seven (7) food and kindred products (6% of total source emissions)
- Eighty-eight (88) other industrial services (24% of total source emissions)

#### 7.4 Locations of VOC Emissions

Locations of the 121 sources of VOCs analyzed from data recorded in this report are represented in Figure 5.

VOC sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Forty-three (43) sources greater than or equal to 0.005 tons/yr and less than or equal to 2.0 tons/yr
- Thirty-three (33) sources greater than 2.0 tons/yr and less than or equal to 50.0 tons/yr
- Two (2) sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- One (1) source greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- One (1) source greater than 250.0 tons/yr and less than or equal to 469.0 tons/yr

VOC sources along the western portion of the study area, west of Colorado State Highway 2 and north of E 80th Avenue include:

- Eleven (11) sources greater than or equal to 0.005 tons/yr and less than or equal to 2.0 tons/yr
- Eleven (11) sources greater than 2.0 tons/yr and less than or equal to 50.0 tons/yr
- Two (2) sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- One (1) source greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr



No sources greater than 250.0 tons/yr and less than or equal to 469.0 tons/yr

VOC sources along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

- Three (3) sources greater than or equal to 0.005 tons/yr and less than or equal to 2.0 tons/yr
- Twelve (12) sources greater than 2.0 tons/yr and less than or equal to 50.0 tons/yr
- One (1) source greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 250.0 tons/yr
- No sources greater than 250.0 tons/yr and less than or equal to 469.0 tons/yr

#### 7.5 Breakdown of VOC Emissions

Total VOC emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated state-wide Colorado emissions totals, are as follows:

- Adams County 3,719 tons/yr
- Arapahoe County 2,059 tons/yr
- Denver County 897 tons/yr
- Weld County 26,870 tons/yr
- State-wide estimated actual emissions totals 54,697 tons/yr

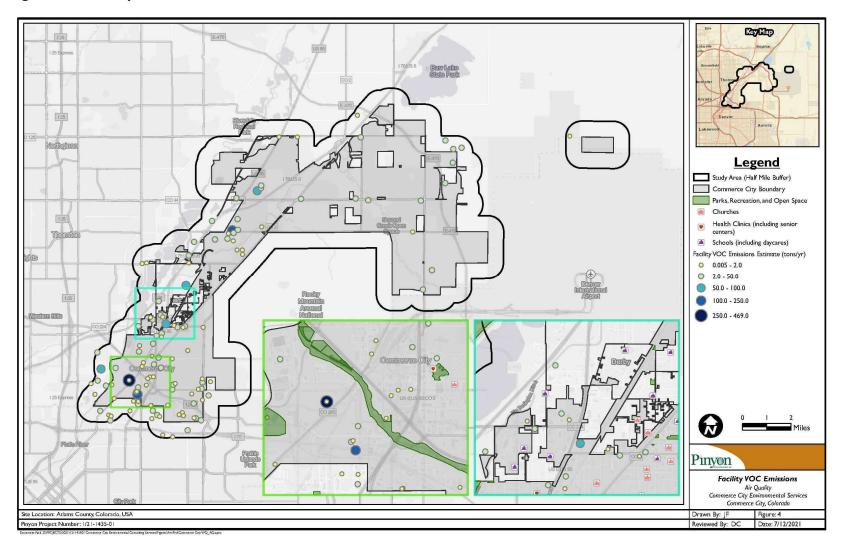
Table 7-2. VOC Emissions Percentage of Commerce City in County and State Regions

VOC Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals
1,353 tons/yr	36%	2%

Source: CDPHE APCD 2021



Figure 4. Facility VOC Emissions





# 8. Sulfur Dioxide (SO<sub>2</sub>)

Sulfur Dioxide ( $SO_2$ ) is a colorless, foul-smelling, toxic gas part of a larger group of chemicals referred to as sulfur oxides ( $SO_x$ ) (U.S. EPA, 2019).  $SO_2$  is emitted by burning fossil fuels (coal, oil, natural gas) or other sulfur-containing materials. The largest source of  $SO_2$  emitted into the atmosphere is the burning of fossil fuels by power plants and other industrial facilities (U.S. EPA, 2019). Other sources include industrial processes such as extracting metal from ore and vehicles and heavy equipment that burns fuel with high sulfur content.

### 8.1 SO<sub>2</sub> Health Concerns

Short-term exposures to  $SO_2$  can harm the respiratory system and make breathing difficult. People with asthma, particularly children, are sensitive to the effects of  $SO_2$ .  $SO_2$  can also lead to the formation of other  $SO_x$ .  $SO_x$  can react with other compounds in the atmosphere to form small particles, contributing to particulate matter pollution (U.S. EPA, 2019).

# 8.2 Summary of SO<sub>2</sub> Emissions

Using available data acquired from active APCD permits, 28 facilities have the potential to emit  $SO_2$ . These 28 facilities in and within a  $\frac{1}{2}$  mile of Commerce City limits total 376 tons/yr. In Table 8-1 below, the ten (10) highest emitters of estimated actual annual  $SO_2$  emissions have been identified.

Table 8-1. Ten (10) Highest Sources of SO<sub>2</sub> Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual SO <sub>2</sub> (ton/year)
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	223.2
Metro Wastewater Reclamation District	Sewage Treatment Facility	6450 York St	90.84
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	34.34
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	9.84
Aggregate Industries – Dahlia Plant	Hot Mix Asphalt Plant	4801 E 78 <sup>th</sup> Ave	7.43
Adams County Government Center	Emergency Power Generation	4430 S Adams County Pkwy	4.47
4283929 Delaware, LLC - Henderson	Pet Crematory	9731 Hanover Ct E	1.60
City & County of Denver - Roslyn	Maintenance Complex	5440 Roslyn St	0.78
Brannan Sand & Gravel	Hot Mix Asphalt Plant	7271 Colorado Blvd	0.73



Source Name	Source Description	Source Location	Facility Estimated Actual Annual SO <sub>2</sub> (ton/year)
Chemtrade Holdco U.S Chemtrade Solutions	Aluminum Sulfate Solution Production Facility	5075 E. 50th Ave	0.65

Source: CDPHE APCD 2021

## 8.3 Sources of SO<sub>2</sub> Emissions

Sources of  $SO_2$  analyzed from data recorded in this report involve the following breakdown of industries, services, and products, including percent of total  $SO_2$  emissions estimates:

- Six (6) petroleum refining and related industries (62% of total source emissions)
- Three (3) electric gas and sanitary services (36% of total source emissions)
- Zero (0) oil and gas extraction and related services (0% of total source emissions)
- Six (6) food and kindred products (0.03% of total source emissions)
- Thirteen (13) other industrial services (2% of total source emissions)

### 8.4 Locations of SO<sub>2</sub> Emissions

Locations of the 28 sources of SO<sub>2</sub> analyzed from data recorded in this report are represented in Figure 5.

SO<sub>2</sub> sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Eighteen (18) sources greater than or equal to 0.0001 tons/yr and less than or equal to 5.0 tons/yr
- Two (2) sources greater than 5.0 tons/yr and less than or equal to 50.0 tons/yr
- One (1) source greater than 50.0 and less than or equal to 100.0 tons/yr
- One (I) source greater than 100.0 and less than or equal to 223.2 tons/yr

 $SO_2$  sources located along the western portion of the study area, west of Colorado State Highway 2 and north of E 80<sup>th</sup> Avenue, include:

- Four (4) sources greater than or equal to 0.0001 tons/yr and less than or equal to 5.0 tons/yr
- No sources greater than 5.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 and less than or equal to 223.2 tons/yr



 $SO_2$  sources located along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

- One (1) source greater than or equal to 0.0001 tons/yr and less than or equal to 5.0 tons/yr
- One (I) source greater than 5.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 and less than or equal to 223.2 tons/yr

# 8.5 Breakdown of SO<sub>2</sub> Emissions

Total SO<sub>2</sub> emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated actual state-wide Colorado emissions totals, are as follows:

- Adams County 462 tons/yr
- Arapahoe County 32 tons/yr
- Denver County 99 tons/yr
- Weld County 428 tons/yr
- State-wide estimated actual emissions totals 13,705 tons/yr

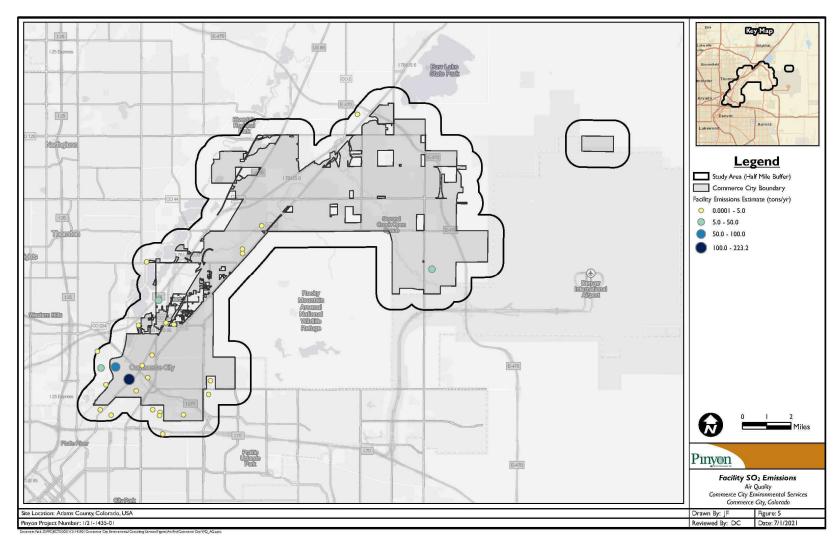
Table 8-2. SO<sub>2</sub> Emissions Percentage of Commerce City in County and State Regions

SO <sub>2</sub> Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals
376 tons/yr	81%	3%

Source: CDPHE APCD 2021



Figure 5. Facility SO<sub>2</sub> Emissions





# 9. Particulate Matter less than 10 micrometers in diameter (PM<sub>10</sub>)

Atmospheric particulate matter with diameters generally 10 micrometers and smaller ( $PM_{10}$ ) consists of microscopic solid or liquid particles suspended in the air.  $PM_{10}$  can be made up of several different components, including "acidic aerosols (e.g., nitrates and sulfates), organic carbon, metals, soil or dust particles, and allergens (such as fragments of pollen or mold spores)" (U.S. EPA, 2021c).

 $PM_{10}$  is typically formed in the atmosphere via various sources, primarily from fugitive dust sources rather than stack emissions or combustion sources. Fugitive emissions cannot be captured and often originate from equipment leaks, earth disturbing equipment vehicles, and windblown disturbances (U.S. EPA, 2021c).

### 9.1 PM<sub>10</sub> Health Concerns

 $PM_{10}$  is inhalable and thus poses a health threat, such as irritation to the eyes, nose, and throat. In addition, it causes serious harm due to inflammation in the airways of people with respiratory diseases such as asthma, chronic obstructive pulmonary disease, and pneumonia.

# 9.2 Summary of PM<sub>10</sub> Emissions

Using readily available data acquired from active APCD permits, 79 facilities have the potential to emit  $PM_{10}$ . These 79 facilities in and within a  $\frac{1}{2}$  mile of Commerce City limits total 490 tons/yr  $PM_{10}$ . In Table 9-1 below, the ten (10) highest emitters of estimated actual annual  $PM_{10}$  emissions have been identified.

Table 9-1. Ten (10) Highest Sources of PM<sub>10</sub> Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual PM <sub>10</sub> (ton/year)
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	130.0
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	91.16
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	60.84
Ardent Mills – Commerce City Mill	Animal Feed and Flour Mill	4545 E 64 <sup>th</sup> Ave	58.86
Commerce City Grain	Grain Elevator	4600 E 64 <sup>th</sup> Ave	18.25
Albert Frei & Sons – Fernald Pit	Construction Sand and Gravel Mining	7281 Colorado Blvd	17.65
Basalite Concrete Products	Concrete Block and Brick Manufacturing	4900 Race St	11.94
General Scrap Inc.	Scrap Metal Recycling	5601 York St	7.58
JK Concepts	Woodwork Manufacturing	3333 E 52 <sup>nd</sup> Ave	7.00
Brannan Ready Mix Company	Concrete Batching Plant	7291 Colorado Blvd	5.80



Source: CDPHE APCD 2021

### 9.3 Sources of PM<sub>10</sub> Emissions

Sources of PM<sub>10</sub> analyzed from data recorded in this report involve the following breakdown of industries, services, and products, including percent of total PM<sub>10</sub> emissions estimates:

- Eight (8) petroleum refining and related industries (29% of total source emissions)
- Four (4) electric gas and sanitary services (32% of total source emissions)
- Zero (0) oil and gas extraction and related services (0% of total source emissions)
- Seven (7) food and kindred products (17% of total source emissions)
- Sixty (60) other industrial services (22% of total source emissions)

### 9.4 Locations of PM<sub>10</sub> Emissions

Locations of the 79 sources of PM<sub>10</sub> analyzed from data recorded in this report are represented in Figure 6.

PM<sub>10</sub> sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Thirty-four (34) sources greater than or equal to 0.1 tons/yr and less than or equal to 1.0 tons/yr
- Twenty-two (22) sources greater than 1.0 tons/yr and less than or equal to 50.0 tons/yr
- Two (2) sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- One (1) source greater than 100.0 tons/yr and less than or equal to 130.1 tons/yr

 $PM_{10}$  sources located along the western portion of the study area, west of Colorado State Highway 2 and north of E  $80^{th}$  Avenue, include:

- Ten (10) sources greater than or equal to 0.1 tons/yr and less than or equal to 1.0 tons/yr
- Eight (8) sources greater than 1.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 130.1 tons/yr

PM<sub>10</sub> sources located along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

- One (I) source greater than or equal to 0.1 tons/yr and less than or equal to 1.0 tons/yr
- No sources greater than 1.0 tons/yr and less than or equal to 50.0 tons/yr



- One (I) source greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 130.1 tons/yr

### 9.5 Breakdown of PM<sub>10</sub> Emissions

Total PM<sub>10</sub> emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated actual state-wide Colorado emissions totals, are as follows:

- Adams County 773 tons/yr
- Arapahoe County 557 tons/yr
- Denver County 209 tons/yr
- Weld County I,841 tons/yr
- State-wide estimated actual emissions totals 13,084 tons/yr

Table 9-2. PM<sub>10</sub> Emissions Percentage of Commerce City in County and State Regions

PM₁₀ Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals	
490 tons/yr	63%	4%	

Source: CDPHE APCD 2021



Figure 6. Facility PM<sub>10</sub> Emissions





# 10. Particulate Matter less than 2.5 micrometers in diameter (PM<sub>2.5</sub>)

Atmospheric particulate matter with diameters generally 2.5 micrometers and smaller (PM<sub>2.5</sub>) consists of microscopic solid or liquid particles suspended in the air. PM<sub>2.5</sub> can be made up of several different components, including "acidic aerosols (e.g., nitrates and sulfates), organic carbon, metals, soil or dust particles, and allergens (such as fragments of pollen or mold spores)" (U.S. EPA, 2021c).

 $PM_{2.5}$  is typically formed in the atmosphere via gas to particle conversion. It consists primarily of nitrates, sulfates, and organic carbon (black carbon from combustion can be an important primary source of particles in  $PM_{2.5}$  size fraction) (U.S. EPA, 2021c).  $PM_{2.5}$  is emitted directly from sources, such as construction sites, unpaved roads, fields, smokestacks, or fires.

## 10.1 PM<sub>2.5</sub> Health Concerns

 $PM_{2.5}$  can penetrate the lungs, with particles less than 0.1 um (ultrafine particles) able to penetrate the bloodstream. The result of which can affect the lungs, the heart, and the cardiovascular system. For reference, the average human hair is about 70 micrometers in diameter – making it 30 times larger than the largest fine particle (U.S. EPA, 2021c).

### 10.2 Summary of PM<sub>2.5</sub> Emissions

Using readily available data acquired from active APCD permits, 79 facilities have the potential to emit  $PM_{2.5}$ . These 79 facilities in and within a  $\frac{1}{2}$  mile of Commerce City limits total 292 tons/yr  $PM_{2.5}$ . In Table 10-1 below, the ten (10) highest emitters of estimated actual annual  $PM_{2.5}$  emissions have been identified.

Table 10-1. Ten (10) Highest Sources of PM<sub>2.5</sub> Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual PM <sub>2.5</sub> (ton/year)
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	119.5
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	60.84
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	20.24
Ardent Mills – Commerce City Mill	Animal Feed and Flour Mill	4545 E 64 <sup>th</sup> Ave	16.84
JK Concepts	Woodwork Manufacturing	3333 E 52 <sup>nd</sup> Ave	7.00
Commerce City Grain	Grain Elevator	4600 E 64 <sup>th</sup> Ave	6.29
United Asphalts Inc.	Asphalt Manufacturing	43606 E 60 <sup>th</sup> Ave	5.63
Albert Frei & Sons – Fernald Pit	Construction Sand and Gravel Mining	7281 Colorado Blvd	5.19



Source Name	Source Description	Source Location	Facility Estimated Actual Annual PM <sub>2.5</sub> (ton/year)
Trustile Doors, LLC	Millwork	1780 E 66 <sup>th</sup> Ave	4.00
Metro Wastewater Reclamation District	Sewage Treatment Facility	6450 York St	3.57

Source: CDPHE APCD 2021

### 10.3 Sources of PM<sub>2.5</sub> Emissions

Sources of  $PM_{2.5}$  analyzed from data recorded in this report involve the following breakdown of industries, services, and products, including percent of total  $PM_{2.5}$  emissions estimates:

- Eight (8) petroleum refining and related industries (44% of total source emissions)
- Four (4) electric gas and sanitary services (30% of total source emissions)
- Zero (0) oil and gas extraction and related services (0% of total source emissions)
- Seven (7) food and kindred products (9% of total source emissions)
- Sixty (60) other industrial services (18% of total source emissions)

### 10.4 Locations of PM<sub>2.5</sub> Emissions

Locations of the 79 sources of PM<sub>2.5</sub> analyzed from data recorded in this report are represented in Figure 7.

PM<sub>2.5</sub> sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Thirty-five (35) sources greater than or equal to 0.003 tons/yr and less than or equal to 1.0 tons/yr
- Seventeen (17) sources greater than 1.0 tons/yr and less than or equal to 50.0 tons/yr
- One (I) source greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- One (1) source greater than 100.0 tons/yr and less than or equal to 119.5 tons/yr

 $PM_{2.5}$  sources located along the western portion of the study area, west of Colorado State Highway 2 and north of E  $80^{th}$  Avenue, include:

- Nineteen (19) sources greater than or equal to 0.003 tons/yr and less than or equal to 1.0 tons/yr
- Four (4) sources greater than 1.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 119.5 tons/yr



 $PM_{2.5}$  sources located along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

- One (1) source greater than or equal to 0.003 tons/yr and less than or equal to 1.0 tons/yr
- One (I) source greater than I.0 tons/yr and less than or equal to 50.0 tons/yr
- No sources greater than 50.0 tons/yr and less than or equal to 100.0 tons/yr
- No sources greater than 100.0 tons/yr and less than or equal to 119.5 tons/yr

### 10.5 Breakdown of PM<sub>2.5</sub> Emissions

Total PM<sub>2.5</sub> emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated actual state-wide Colorado emissions totals, are as follows:

- Adams County 453 tons/yr
- Arapahoe County 506 tons/yr
- Denver County 125 tons/yr
- Weld County 1,316 tons/yr
- State-wide estimated actual emissions totals 5,912 tons/yr

Table 10-2. PM<sub>2.5</sub> Emissions Percentage of Commerce City in County and State Regions

PM <sub>2.5</sub> Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals
292 tons/yr	64%	5%

Source: CDPHE APCD 2021



Figure 7. Facility PM<sub>2.5</sub> Emissions





### II. Total Hazardous Air Pollutants (HAPs)

Hazardous air pollutants, also known as toxic air pollutants or air toxics, are a series of "known or suspected pollutants to cause cancer or other serious health effects, such as reproductive effects or congenital disabilities, or adverse environmental effects" (U.S. EPA, 2017b). The U.S. EPA currently classifies 187 toxic air pollutants such as benzene, found in gasoline; perchloroethylene, which is emitted from some dry cleaning facilities; and methylene chloride solvent and paint stripper by several industries (U.S. EPA, 2017b). The Total HAPs categorized in the emissions data include acetaldehyde, benzene, ethylbenzene, formaldehyde, n-hexane, toluene, and xylenes.

#### 11.1 Total HAPs Health Concerns

Exposure to toxic air pollutants for prolonged durations may increase the risk of cancer or experiencing other serious health effects. Health effects can damage the immune system and neurological, reproductive (e.g., reduced fertility), developmental, respiratory, and other health problems (U.S. EPA, 2017b).

### 11.2 Summary of Total HAPs Emissions

Using readily available data acquired from active APCD permits, 43 facilities have the potential to emit Total HAPs. These 43 facilities in and within a ½ mile of Commerce City limits total 124 tons/yr. In Table 11-1 below, the ten (10) highest emitters of estimated actual annual Total HAPs emissions have been identified.

Table 11-1. Ten (10) Highest Sources of Total HAPs Emissions

Source Name	Source Description	Source Location	Facility Estimated Actual Annual Total HAPs (ton/year)
Allied Waste Systems – Tower Landfill	Solid Waste Landfill	8480 Tower Rd	30.12
Suncor Energy – Denver Refinery	Petroleum Refinery	5801 Brighton Blvd	19.74
Public Service Co – Cherokee Generating Station	Electric Power Generation	6198 Franklin St	19.38
U.E Compression – Henderson Facility	Coating & Blasting – Structural Steel	9461 Willow Ct	9.20
Painting & Fiberglass Inc.	Fiber Glass Parts Manufacturing	10201 E 107 <sup>th</sup> Pl	6.58
Phillips 66 Pipeline – Denver Terminal	Petroleum Products Storage/Distribution	3960 E 56 <sup>th</sup> Ave	5.72
Nustar Logistics – Denver Terminal	Petroleum Products Storage/Distribution	3601 E 56 <sup>th</sup> Ave	3.94
Good Paint, LLC	Heavy Equipment Surface Coating	4404 E 60 <sup>th</sup> Ave	3.21
Birko Corp – Chemical Blending Plant	Chemical Mixtures	9152 Yosemite St	2.43



Source Name	Source Description	Source Location	Facility Estimated Actual Annual Total HAPs (ton/year)
Master Builders Solutions – Brighton Facility	Adhesive Manufacturing	10601 Fulton St	2.40

Source: CDPHE APCD 2021

### 11.3 Sources of Total HAPs Emissions

Sources of Total HAPs analyzed from data recorded in this report involve the following industries, services, and products, including percent of total HAPs emissions estimates:

- Five (5) petroleum refining and related industries (20% of total source emissions)
- Three (3) electric gas and sanitary services (41% of total source emissions)
- Six (6) oil and gas extraction and related services (11% of total source emissions)
- One (1) food and kindred products (0.3% of total source emissions)
- Twenty-eight (28) other industrial services (28% of total source emissions)

#### 11.4 Locations of Total HAPs Emissions

Locations of the 43 sources of Total HAPs analyzed from data recorded in this report are represented in Figure 8.

Total HAPs sources located in the southern portion of the study area south of E 80<sup>th</sup> Avenue include:

- Twenty-six (26) sources greater than or equal to 0.0006 tons/yr and less than or equal to 10.0 tons/yr
- Two (2) sources greater than 10.0 tons/yr and less than or equal to 25.0 tons/yr
- No sources greater than 25.0 tons/yr and less than or equal to 30.1 tons/yr

Total HAPs sources located along the western portion of the study area, west of Colorado State Highway 2 and north of E 80<sup>th</sup> Avenue, include:

- Ten (10) sources greater than or equal to 0.0006 tons/yr and less than or equal to 10.0 tons/yr
- No sources greater than 10.0 tons/yr and less than or equal to 25.0 tons/yr
- No sources greater than 25.0 tons/yr and less than or equal to 30.1 tons/yr

Total HAPs sources located along the northern and eastern portion of Commerce City, east of Colorado State Highway 2, include:

Four (4) sources greater than or equal to 0.0006 tons/yr and less than or equal to 10.0 tons/yr



- No sources greater than 10.0 tons/yr and less than or equal to 25.0 tons/yr
- One (1) source greater than 25.0 tons/yr and less than or equal to 30.1 tons/yr

### 11.5 Breakdown of Total HAPs Emissions

Total HAPs emissions estimates extrapolated from the data provided by APCD for Adams, Arapahoe, Denver, and Weld Counties, in addition to estimated state-wide Colorado emissions totals, are as follows:

- Adams County 406 tons/yr
- Arapahoe County 113 tons/yr
- Denver County 40 tons/yr
- Weld County 2,116 tons/yr
- State-wide estimated actual emissions totals 5,112 tons/yr

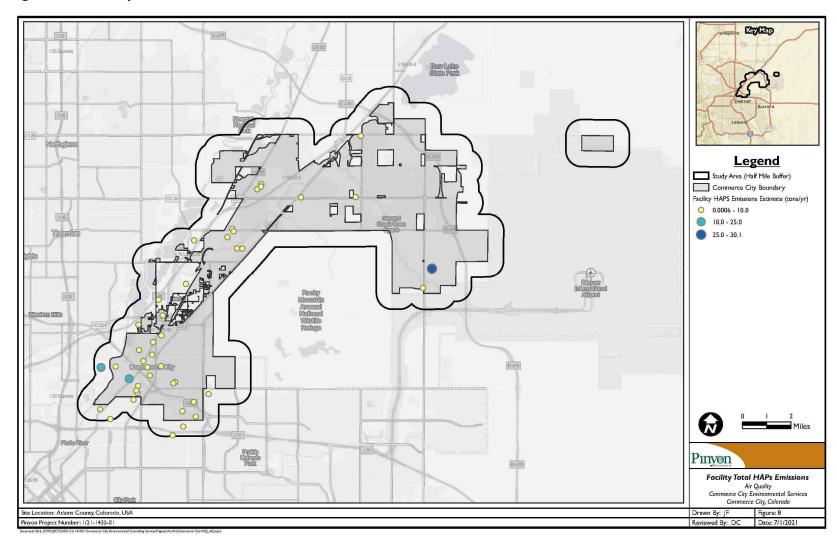
Table 11-2. Total HAPs Emissions Percentage of Commerce City in County and State Regions

Total HAPs Emissions within Study Area	Percent of Adams County Actual Emissions Totals	Percent of State-Wide Actual Emissions Totals
124 tons/yr	31%	2%

Source: CDPHE APCD 2021



Figure 8. Facility Total HAPs Emissions





## 12. Methane (CH<sub>4</sub>)

For information on  $CH_4$  emissions within Commerce City, please refer to the 2021 GHG emissions report prepared by Lotus Engineering and Sustainability for Commerce City.



### 13. Interactive Story Map

Pinyon has organized the air pollutant data within this report into an online, interactive ArcGIS story map. The story map is intended to supplement this community-wide impacts report, providing a narrative and easy access to visualize the associated data. Commerce City can use this as a tool to quickly scope air quality emissions that may be located near communities and businesses to make more informed decisions. In addition, the story map can be viewed and shared with the public or whomever Commerce City provides the ArcGIS login credentials. The story map can be accessed via most web browsers and devices.

To access the Story Map, visit the following hyperlink:	Story Map, visit the following hyperlink:
---	---



### 14. Data Gaps

Pinyon collected data from 154 emissions sources. Due to the high volume of data and variety of sources from which these data were collected, some data gaps in the community-wide impacts report may exist. In addition, there are thresholds in which sources of air pollution are not required to obtain a permit or file an APEN. Therefore, if a facility does not have a public record of emissions, this does not mean there are no potential emissions from the facility.

Below is a list of data gaps observed by Pinyon during the preparation of the community-wide impacts report:

- The air permits where emissions data were collected are active as of the date of this report. Future use of this report may not reflect estimated actual source emissions as equipment or production at these facilities may change. Pinyon compiled data from the most recent permit submittals filed with APCD. Additional emissions estimates of air pollutants may exist within the study area, such as those currently under APCD review that have not been issued air permits.
- Evaluation of mobile and non-road and on-road sources of pollution such as vehicle exhaust, tractor-trailers, lawnmowers, wood-burning fires, etc., did not occur, as these are not stationary sources that require any sort of documentation of emissions.
- The "shut-in" status of each oil and gas well recorded is current as of the date of this report. Therefore, future use of this report may not reflect future well status.
- Both the area attainment statuses and NAAQS screening levels presented in this report are current as of the date of this report. Therefore, future use of this report may not reflect then-current regulatory conditions.



### 15. References

- Colorado Department of Public Health and Environment (CDPHE), 2020. 2019 Air Quality Data Report. September 2020.
- CDPHE, 2021a. About Title V operating permits. Accessed from: <a href="https://cdphe.colorado.gov/apens-and-air-permits/about-title-v-operating-permits">https://cdphe.colorado.gov/apens-and-air-permits/about-title-v-operating-permits</a>
- CDPHE, 2021b. Do you need an APEN or air permit? Accessed from: <a href="https://cdphe.colorado.gov/apens-and-air-permits/do-you-need-an-apen-or-air-permit">https://cdphe.colorado.gov/apens-and-air-permit</a>
- Colorado Department of Transportation (CDOT), 2021. *Highway Data Explorer*. Accessed from: <a href="https://dtdapps.coloradodot.info/otis/HighwayData">https://dtdapps.coloradodot.info/otis/HighwayData</a>
- Colorado Oil and Gas Conservation Commission (COGCC). n.d. Glossary of Oil and Gas Terms. Accessed from: <a href="https://cogcc.state.co.us/COGIS">https://cogcc.state.co.us/COGIS</a> Help/glossary.htm
- United States Environmental Protection Agency (U.S. EPA), 2016a. Carbon Monoxide Pollution in Outdoor Air.

  Accessed from: <a href="https://www.epa.gov/co-pollution/basic-information-about-carbon-monoxide-co-outdoor-air-pollution#What%20is%20CO">https://www.epa.gov/co-pollution/basic-information-about-carbon-monoxide-co-outdoor-air-pollution#What%20is%20CO</a>. September 2016.
- U.S. EPA, 2016b. Nitrogen Dioxide (NO<sub>2</sub>) Pollution. Accessed from: <a href="https://www.epa.gov/no2-pollution/basic-information-about-no2#Effects">https://www.epa.gov/no2-pollution/basic-information-about-no2#Effects</a>. September 2016.
- U.S. EPA, 2017a. *Technical Overview of Volatile Organic Compounds*. Accessed from: <a href="https://www.epa.gov/indoor-air-quality-iag/technical-overview-volatile-organic-compounds">https://www.epa.gov/indoor-air-quality-iag/technical-overview-volatile-organic-compounds</a>. April 2017.
- U.S. EPA, 2017b. What are Hazardous Air Pollutants? Accessed from: <a href="https://www.epa.gov/haps/what-are-hazardous-air-pollutants">https://www.epa.gov/haps/what-are-hazardous-air-pollutants</a>. February 2017.
- U.S. EPA, 2019. Sulfur Dioxide (SO<sub>2</sub>) Pollution. Accessed from: <a href="https://www.epa.gov/so2-pollution/sulfur-dioxide-basics#what%20is%20so2">https://www.epa.gov/so2-pollution/sulfur-dioxide-basics#what%20is%20so2</a>. April 2019.
- U.S. EPA, 2020. How Mobile Source Pollution Affects Your Health. Accessed from: <a href="https://www.epa.gov/mobile-source-pollution-affects-your-health">https://www.epa.gov/mobile-source-pollution-affects-your-health</a>. September 2020.
- U.S. EPA, 2021a. Colorado Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. Accessed from: <a href="https://www3.epa.gov/airquality/greenbook/anayo\_co.html">https://www3.epa.gov/airquality/greenbook/anayo\_co.html</a>. June 2021.
- U.S. EPA, 2021b. NAAQS Table. Accessed from: <a href="https://www.epa.gov/criteria-air-pollutants/naaqs-table.">https://www.epa.gov/criteria-air-pollutants/naaqs-table.</a>
  February 2021.
- U.S. EPA, 2021c. (2021, May). Particulate Matter (PM) Pollution. Accessed from: <a href="https://www.epa.gov/pm-pollution/particulate-matter-pm-basics.">https://www.epa.gov/pm-pollution/particulate-matter-pm-basics.</a> May 2021



# **Appendices**



# Appendix A. Nitrogen Oxides (NO<sub>x</sub>) Emissions Summary

#### Nitrogen Oxides (NO<sub>x</sub>) Emissions Summary

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate (tons/yr)
Suncor Energy - Denver Refinery	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	618.7
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	383.0
Metro Wastewater Reclamation Dist/Trigen	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	70.33
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	28.72
Phillips 66 Pipeline - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Storage/Distribution Terminal	3960 E 56th Ave	26.15
Adams County Government Center	Other Industrial Services	Emergency Generator	4430 S Adams County Pkwy	13.25
Darling Ingredients, Inc.	Food and Kindred Products	Rendering Plant	5701 York St # 5800	9.08
Crystal Packaging	Petroleum Refining and Related Industries	Blending of Lubricants and Glycol (for Deicers)	9155 Boston St	8.75
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	7.05
Trustile Doors, LLC	Other Industrial Services	Wood Door Manufacturing Facility	1780 E 66th Ave	5.70
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant	7271 Colorado Blvd	5.57
Sinclair - Denver Products Terminal	Oil and Gas Extraction and Related Services	Petroleum Terminal	8581 E 96th Ave	4.30
Ready Mixed Concrete Co Franklin Plant 2	Other Industrial Services	Concrete Batch Plant	5775 Franklin St	3.65
City of Thornton - East Gravel Lakes	Other Industrial Services	East Gravel Lakes Pump Station #4	4300 East 88th Ave	3.32
City & County of Denver - Roslyn	Other Industrial Services	Maintenance Complex	5440 Roslyn St	3.18
Denver Water - Reuse Plant	Electric Gas and Sanitary Services	Water Supply	5650 York St	2.49
NRG Reliability Solutions - Mile Hi Bakery	Other Industrial Services	Emergency Generators	4545 East 51St Ave	2.27
Safeway Milk Plant	Food and Kindred Products	Milk Plant	4301 Forest St	1.85
Colorado Asphalt Services	Petroleum Refining and Related Industries	Asphalt Paving	3700 E 56th Ave	1.77
Extraction Oil & Gas	Oil and Gas Extraction and Related Services	Well Production Facility - Box Elder Farms 31-21 #2, 41-21 #1	NWNE SEC 21 T2S R66W	1.75
BKEP Materials - Denver C & K	Petroleum Refining and Related Industries	Liquid Asphalt Blending, Storage, and Distribution	4310 E 60th Ave	1.65
WestRock CP - WestRock Denver Corrugated	Other Industrial Services	Corrugated Paper Products Manufacturing Facility	5050 E 50th Ave	1.59
CO Asphalt Services, LLC - Recycle Plant	Petroleum Refining and Related Industries	Recycle Plant Site	3400 E 56th Ave	1.50
Alsco	Other Industrial Services	Industrial Laundry	5090 Cook St	1.22
4283929 Delaware, LLC - Henderson	Other Industrial Services	Pet Crematory	9731 Hanover Ct E	1.21
Magellan Pipeline Co Dupont Terminal	Oil and Gas Extraction and Related Services	Petroleum Bulk Terminal	8160 Krameria St	1.17
Nustar Logistics, LP - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Distribution Terminal	3601 E 56th Ave	1.10
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed and Flour Mill	4545 E 64th Ave	1.10
Colorado Serum Co.	Other Industrial Services	Veterinary Products	4950 York St	0.97
Colorado Wilbert Vault Co.	Other Industrial Services	Burial Vaults & Cremation	4985 Locust St	0.59
Caterpillar, Inc.	Other Industrial Services	Machine Parts Distribution Warehouse	4705 E 48th Ave	0.48
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	0.39
Purina Animal Nutrition, LLC	Food and Kindred Products	Manufacture of Animal Feed	6151 Brighton Blvd	0.31
Purina Animal Nutrition - Henderson	Food and Kindred Products	Animal Feed Manufacturing Facility	9200 E 90th Ave	0.31
U.S. Postal Service - Denver Bulk Mail Center	Other Industrial Services	USPS Parcel Processing Facility	7755 E 56th Ave	0.30
PSC Industrial - Portable Vapor Combustor	Oil and Gas Extraction and Related Services	Portable Vapor Combustor	6511 Colorado Blvd #2	0.24
Denver Pet Cemetery	Other Industrial Services	Pet Crematory	5721 E 72nd Ave	0.16
Basalite Concrete Products	Other Industrial Services	Cement Concrete Blocks / Pavers Manufacturing Plant	4900 Race St	0.10
Source: CDPHE APCD 2021				

TOTAL

1,215

Notes:

1. List organized from highest to lowest estimated actual annual NOx emissions.



# Appendix B. Carbon Monoxide (CO) Emissions Summary

#### Carbon Monoxide (CO) Emissions Summary

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate (tons/yr)
Suncor Energy - Denver Refinery	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	494.3
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	315.8
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	102.1
Phillips 66 Pipeline - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Storage/Distribution Terminal	3960 E 56th Ave	69.86
Metro Wastewater Reclamation Dist/Trigen	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	41.76
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant	7271 Colorado Blvd	27.87
City & County of Denver - Roslyn	Other Industrial Services	Maintenance Complex	5440 Roslyn St	14.20
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	11.12
Sinclair - Denver Products Terminal	Oil and Gas Extraction and Related Services	Petroleum Terminal	8581 E 96th Ave	10.80
Colorado Asphalt Services	Petroleum Refining and Related Industries	Asphalt Paving	3700 E 56th Ave	8.87
Darling Ingredients, Inc.	Food and Kindred Products	Rendering Plant	5701 York St # 5800	7.63
Crystal Packaging	Petroleum Refining and Related Industries	Blending of Lubricants and Glycol (for Deicers)	9155 Boston St	7.35
Trustile Doors, LLC	Other Industrial Services	Wood Door Manufacturing Facility	1780 E 66th Ave	7.00
Ready Mixed Concrete Co Franklin Plant 2	Other Industrial Services	Concrete Batch Plant	5775 Franklin St	6.68
Nustar Logistics, LP - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Distribution Terminal	3601 E 56th Ave	5.49
United Asphalts, Inc	Petroleum Refining and Related Industries	Roofing Asphalt Manufacturing	4306 E 60th Ave	4.17
Adams County Government Center	Other Industrial Services	Emergency Generator	4430 S Adams County Pkwy	3.04
Magellan Pipeline Co Dupont Terminal	Oil and Gas Extraction and Related Services	Petroleum Bulk Terminal	8160 Krameria St	2.93
NRG Reliability Solutions - Mile Hi Bakery	Other Industrial Services	Emergency Generators	4545 East 51st Ave	2.41
Bimbo Bakeries USA, Inc.	Food and Kindred Products	Bread And Bun Bakery	7300 Brighton Blvd	2.26
4283929 Delaware, LLC - Henderson	Other Industrial Services	Pet Crematory	9731 Hanover Ct E	2.15
Safeway Milk Plant	Food and Kindred Products	Milk Plant	4301 Forest St	1.56
BKEP Materials - Denver C & K	Petroleum Refining and Related Industries	Liquid Asphalt Blending, Storage, and Distribution	4310 E 60th Ave	1.38
WestRock CP - WestRock Denver Corrugated	Other Industrial Services	Corrugated Paper Products Manufacturing Facility	5050 E 50th Ave	1.33
U.S. Postal Service - Denver Bulk Mail Center	Other Industrial Services	USPS Parcel Processing Facility	7755 E 56th Ave	1.04
Alsco	Other Industrial Services	Industrial Laundry	5090 Cook St	1.03
Colorado Serum Co.	Other Industrial Services	Veterinary Products	4950 York St	0.58
Extraction Oil & Gas	Oil and Gas Extraction and Related Services	Well Production Facility - Box Elder Farms 31-21 #2, 41-21 #1	NWNE SEC 21 T2S R66W	0.53
Purina Animal Nutrition - Henderson	Food and Kindred Products	Animal Feed Manufacturing Facility	9200 E 90th Ave	0.52
City of Thornton - East Gravel Lakes	Other Industrial Services	East Gravel Lakes Pump Station #4	4300 East 88th Ave	0.48
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	0.33
Purina Animal Nutrition, LLC	Food and Kindred Products	Manufacture Of Animal Feed	6151 Brighton Blvd	0.31
CO Asphalt Services, LLC - Recycle Plant	Petroleum Refining and Related Industries	Recycle Plant Site	3400 E 56th Ave	0.30
PSC Industrial - Portable Vapor Combustor	Oil and Gas Extraction and Related Services	Portable Vapor Combustor	6511 Colorado Blvd #2	0.19
Caterpillar, Inc.	Other Industrial Services	Machine Parts Distribution Warehouse	4705 E 48th Ave	0.11
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed and Flour Mill	4545 E 64th Ave	0.10
Denver Pet Cemetery	Other Industrial Services	Pet Crematory	5721 E 72nd Ave	0.10
Basalite Concrete Products	Other Industrial Services	Cement Concrete Blocks / Pavers Manufacturing Plant	4900 Race St	0.08
Denver Water - Reuse Plant	Electric Gas and Sanitary Services	Electric Gas and Sanitary Services - Water Supply	5650 York St	0.04
Colorado Wilbert Vault Co.	Other Industrial Services	Burial Vaults & Cremation	4985 Locust St	0.02
Gem Mobile - Port Thermal Oxidizer	Other Industrial Services	Portable Thermal Oxidizer for Tank De-Gassing - Gem Mts	5801 Brighton Blvd	0.004

Source: CDPHE APCD 2021

TOTAL 1,158

Notes:

1. List organized from highest to lowest estimated actual annual CO emissions.



# Appendix C. Volatile Organic Compounds (VOCs) Emissions Summary

### Volatile Organic Compounds (VOCs) Emissions Summary

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate (tons/yr)
Suncor Energy - Denver Refinery	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	469.0
Sinclair - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Terminal	8581 E 96th Ave	128.8
Phillips 66 Pipeline - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Storage/Distribution Terminal	3960 E 56th Ave	128.0
Master Builders Solutions - Brighton Facility	Other Industrial Services	Sealant/Adhesive Manufacture	10601 Fulton St	65.18
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	64.87
Bimbo Bakeries USA, Inc.	Food and Kindred Products	Bread and Bun Bakery	7300 Brighton Blvd	61.83
Magellan Pipeline Co Dupont Terminal	Oil and Gas Extraction and Related Services	Petroleum Bulk Terminal	8160 Krameria St	54.48
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	27.83
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	25.27
Metro Wastewater Reclamation Dist/Trigen	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	17.46
King Soopers, Inc Fuel Center #92	Other Industrial Services	Retail Fuel Station	6175 Parkway Dr	15.60
Nustar Logistics, LP - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Distribution Terminal	3601 E 56th Ave	13.43
Merritt Trailers - Henderson Facility	Other Industrial Services	Manufacturing Truck/Trailer Accessories	9339 Brighton Rd	12.98
Trustile Doors, LLC	Other Industrial Services	Wood Door Manufacturing Facility	1780 E 66th Ave	10.60
Dillon Cos - King Soopers Fuel Facility #114	Other Industrial Services	Gasoline Refueling Station	15041 E 104th Ave 9461 Willow Ct	10.33 9.94
J.E. Compression - Henderson Facility	Other Industrial Services	Coating and Blasting Of Structural Steel Wholesale Bakery	1803 E 58th Ave	9.18
Harlan Bakeries Colorado, LLC	Food and Kindred Products	Caulk and Wood Stain Manufacturing	10300 E 107th Pl	8.04
Sashco, Inc. Bosselman Tank & Trail	Other Industrial Services	Service Tanker Trucks	8999 E 96th Ave	7.85
	Other Industrial Services		7271 Colorado Blvd	7.48
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant  Vehicle and Track Collection Equipment Support And Maintenance	7780 E 96th Ave	7.31
Waste Management of CO - Denver North	Other Industrial Services	Vehicle and Trash Collection Equipment Support And Maintenance  Emergency Generators	4545 East 51st Ave	7.31
NRG Reliability Solutions - Mile Hi Bakery	Other Industrial Services	Emergency Generators  Maintenance Complex	5440 Roslyn St	7.24
City & County of Denver - Roslyn	Other Industrial Services Other Industrial Services	Convenience Store With Fuel Dispensing	8836 E. 96th Ave	6.56
7-Eleven, Inc Store 37570		Convenience Store With Fuel Dispensing Service Station	15200 E 120th Ave	5.52
7-Eleven, Inc Store 38351	Other Industrial Services	Service Station  Convince Store and Gasoline Station	12241 East 104th Ave	5.52
7-Eleven, Inc Store 37291	Other Industrial Services	Auto Body Paint Booth	7040 Eudora Dr	5.30
Empire Truck & Equip Co.	Other Industrial Services	Auto Body Paint Booth Solvent Recycler	9131 E 96th Ave	5.30
Veolia ES Tech Solutions - Henderson	Other Industrial Services Other Industrial Services	Solvent Recycler  Retail Gasoline Station	5896 E 72nd Ave	4.92
Gasamat Oil Corp #103 Rocky Mountain Transload - Dri		Retail Gasoline Station  Rail Car Unloading	4620 Monaco St	4.92
CST Metro, LLC - DBA Corner Store #4074	Other Industrial Services Other Industrial Services	Retail Gasoline Station	5601 Quebec St	4.80
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	4.77
	Oil and Gas Extraction and Related Services	Bulk Storage Facility	6795 Brighton Blvd	4.76
Riggi Oil Co., Inc. Extraction Oil & Gas	Oil and Gas Extraction and Related Services  Oil and Gas Extraction and Related Services	Well Production Facility - HSR-TR Ranch 16-3, 10-3 (Shut In)	SESE-3-2S-66W	4.73
7-Eleven, Inc Store 36464	Other Industrial Services	Fuel Dispensing Station	8111 Tower Rd	4.39
Steel Storage Systems, Inc.	Other Industrial Services Other Industrial Services	Paint Booth	6301 Dexter St	4.32
Allied Waste Transport	Other Industrial Services Other Industrial Services	Industrial Spray Coating	5075 E 74th Ave	4.10
7-Eleven - Store #38170	Other Industrial Services Other Industrial Services	Service Station	5605 East 56th Ave	3.99
Extraction Oil & Gas	Oil and Gas Extraction and Related Services	Well Production Facility - HSR Cunningham 7-10 (Shut In)	SWNE-10-2S-66W	3.92
Denver Truck & Trailer	Other Industrial Services	Automotive - Top, Body, and Upholstery Repair Shops and Paint Shops	5280 Newport St	3.86
Darling Ingredients, Inc.	Food and Kindred Products	Rendering Plant	5701 York St # 5800	3.72
Darning ingredients, inc.				
Suncor Energy Salar Inc., Handarron 44	Oil and Gas Extraction and Rolated Services	Gasoline Underground Storage Tanks	9001 I-76 Service Rd	3.71
-	Oil and Gas Extraction and Related Services	Gasoline Underground Storage Tanks Min Manufacturing Facility	9001 I-76 Service Rd 4990 Dahlia St	3.71
Suncor Energy Sales, Inc - Henderson 66  NR Parentco - Mothership  A&F Tiro	Other Industrial Services	Mip Manufacturing Facility	4990 Dahlia St	3.68
NR Parentco - Mothership A&E Tire	Other Industrial Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility	4990 Dahlia St 3855 E 52nd Ave	3.68 3.63
NR Parentco - Mothership A&E Tire 7-Eleven, Inc Store 35864	Other Industrial Services Other Industrial Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave	3.68 3.63 3.51
NR Parentco - Mothership A&E Tire 7-Eleven, Inc Store 35864 E Painting & Fiberglass, Inc.	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 107th Pl	3.68 3.63 3.51 3.45
NR Parentco - Mothership A&E Tire 7-Eleven, Inc Store 35864 E Painting & Fiberglass, Inc. Extraction Oil & Gas	Other Industrial Services Oil and Gas Extraction and Related Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In)	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-2S-66W	3.68 3.63 3.51
NR Parentoco - Mothership  A&E Tire  -Eleven, Inc Store 35864  - Fainting & Fiberglass, Inc.  - ktraction Oil & Gas  - God Paint, LLC - Metal Finishing Facility	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St	3.68 3.63 3.51 3.45 3.44 3.24
NR Parentoco - Mothership  A&E Tire -Eleven, Inc Store 35864 - Painting & Fiberglass, Inc Startaction Oil & Gas - Good Paint, LLC - Metal Finishing Facility - stinker Stores - Stinker #301	Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 107th PI 5ENE-3-25-66W 5720 Holly St 6355 E 72nd Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15
NR Parentto - Mothership  A&E Tire  -Eleven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  - Good Paint, LLC - Metal Finishing Facili	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St	3.68 3.63 3.51 3.45 3.44 3.24
NR Parentoco - Mothership A&E Tire  - Eleiven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas Good Paint, LLC - Metal Finishing Facility  - Binker Stores - Stinker #301  - Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing	4990 Dahlia St 385 E S2nd Ave 8991 E 104th Ave 10201 E 107th Pl SENE-3-2S-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St	3.68 3.63 3.51 3.45 3.44 3.24 3.15
NR Parentoco - Mothership A&E Tire  '-Eleven, Inc Store 35864  '-Eleven, Inc Store 35864  Painting & Fiberglass, Inc.  Straction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  steinker 'Stores - Stinker #301 Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  japp Brothers Denver	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Bation Manufacturing of Bation Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Casoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop	4990 Dahlia St 385 E S2nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-2S-66VV 5720 Holly St 635 E 72nd Ave 15610 E 104th Ave 4910 Onedda St 7120 E 49th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92
NR Parentico - Mothership  A&E Tire  -Eleven, Inc Store 35864  - Planting & Fiberglass, Inc.  - Extraction Oil & Gas  - Good Palmt, LLC - Metal Finishing Facility  - Stinker Stores - Stinker #301  - Eleven, Inc Store 34087  - enco Industries - DBA Maaco Auto No 707  - Sapp Brothers Denver  - Saint Metal Products Co.	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing	4990 Dahlia St 385 E S2nd Ave 8991 E 104th Ave 10201 E 107th Pl SENE-3-2S-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92
NR Parentico - Mothership  A&E Tire  -Eleven, Inc Store 35864  - Elaving & Fiberglass, Inc.  - Extraction Oil & Gas  - Good Paint, LLC - Metal Finishing Facility  - Eleven, Inc Store 34087  - Eleven, Inc Store 34087  - enco Industries - DBA Maaco Auto No 707  - Sapp Brothers Deniver  - Saton Metal Products Co.  - ST Metro, LLC - DBA Corner Store #1165	Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92
NR Parentoco - Mothership A&E Tire  - Eleiven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas Good Paint, LLC - Metal Finishing Facility  - Binker Stores - Stinker #301  - Eleven, Inc Store 34087  - enco Industries - DBA Maaco Auto No 707  - app Brothers Denver  - Eaton Metal Products Co.  ST Metro, LLC - DBA Corner Store #1165  - Veleven, Inc Store 36775	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station	4990 Dahla St 385 E 52nd Ave 8991 E 104th Ave 10201 E 104th Pl SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77
NR Parentoco - Mothership A&E Tire  '-Eleven, Inc Store 35864  '-Eleven, Inc Store 35864  Fahring & Fiberglass, Inc.  Straction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  steinker Stores - Stinker #301 Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  iapp Brothers Denver  atom Metal Products Co.  SST Metro, LLC - DBA Corner Store #1165 Eleven, Inc Store 36775  Colorado Asphalt Services	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station	4990 Dahlia St 385 S S 23nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th Pl SENE-3-2S-66VV 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5797 Quebec St	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76
NR Parentoco - Mothership A&E Tire  'Eleven, Inc Store 35864  'Eleven, Inc Store 35864  Fainting & Fleberglass, Inc.  Extraction Oil & Gas  Sood Paint, LLC - Metal Finishing Facility  stinker Stores - Stinker #301  'Eleven, Inc Store 34087  Report of Stores - Stinker #301  'Eleven, Inc Store 34087  Sapp Brothers Denver  saton Metal Products Co.  SST Metro, LLC - DBA Comer Store #1165  'Eleven, Inc Store 36775  Colorado Asphalt Services  Extraction Oil & Gas	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Service Station Service Station Asphalt Paving	4990 Dahlia St 385 E S2nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66VV 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 E 74th Ave 5797 Quebec St 3700 E 56th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53
NR Parentco - Mothership  A&E Tire  7-Eleven, Inc Store 35864 E Painting & Fiberglass, Inc.  Extraction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  Stinker Stores - Stinker #301  7-Eleven, Inc Store 34087 encol Industries - DBA Maaco Auto No 707  Sapp Brothers DBA Maco Auto No 707  Sapp Brothers Denver  Eaton Metal Products Co.  CST Metro, LLC - DBA Corner Store #1165  7-Eleven, Inc Store 34775  Colorado Asphalt Services  Extraction Oil & Cas  Extraction Oil & Cas  Zarco Equipment, Inc.	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In)	4990 Dahla St 385 E 52nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38
NR Parentzo - Mothership  A&E Tire  - Eleven, Inc Store 35864  - Painting & Fiberglass, Inc.  Extraction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  Soinker Stores - Stinker #301  - Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  sapp Brothers Denver  Eaton Metal Products Co.  CST Metro, LLC - DBA Corner Store #1165  7-Eleven, Inc Store 36775  Colorado Asphalt Services  Extraction Oil & Gas  Extraction Coll & Gos	Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Well Troduction Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment	4990 Dahla St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5797 Quebec St 3790 E 56th Ave NWNE-3-25-66W 9885 Brighton Rd	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25
NR Parentzo - Mothership  A&E Tire	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Oil and Gas Extraction and Related Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor	4990 Dahlia St 3855 E 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th Pl SENE-3-2S-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-2S-66W 9885 Brighton Rd 6511 Colorado Blvd #2	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25
NR Parentco - Mothership  A&E Tire  7-Eleven, Inc Store 35864  E Painting & Fiberglass, Inc.  Extraction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  Stinker Stores - Stinker #301  -Eleven, Inc Store 34087  Jenco Industries - DBA Maaco Auto No 707  Sapp Brothers Denver  Eaton Metal Products Co.  CST Metro, LLC - DBA Corner Store #1165	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Service Station Asphalt Paiving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station	4990 Dahla St 385 E S2nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66VV 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneda St 7120 E 49th Ave 4900 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NVNNE3-2S-66VV 9988 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24
NR Parentco - Mothership  A&E Tire  7-Eleven, Inc Store 35864  Painting & Fleberglass, Inc.  Extraction Oil & Gas  Good Paint, LLC - Metal Finishing Facility  Siniker Stores - Stiniker #301  7-Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  Sapp Brothers Denver  Eaton Metal Products Co.  CST Metro, LLC - DBA Corner Store #1165  7-Eleven, Inc Store 36775  Colorado Asphalt Services  Extraction Oil & Gas  Zarco Equipment, Inc.  SC Industrial - Portable Vapor Combustor  Apro DBA United Pacific - My Goods #6655  Extraction Oil & Gas  Extraction Oil & Gas	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Casoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Well Production Facility - HSR Ackard 5-2 (Shut In)	4990 Dahla St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-25-66W 5720 Holly St 635 E 72nd Ave 15610 E 104th Ave 4910 C nedda St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-25-66W 988 B fighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22
NR Parentoco - Mothership  A&E Tire  - Eleiven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas  - Good Paint, LLC - Metal Finishing Facility  - Fishinker Store - Stinker #301  - Fleven, Inc Store 34087  - enco Industries - DBA Maaco Auto No 707  - app Brothers Denver  - Eaton Metal Products Co.  - ST Metro, LLC - DBA Corner Store #1165  - Fleven, Inc Store 36775  - Colorado Asphalt Services  - Extraction Oil & Gas  - Zarco Equipment, Inc.  - SC Industrial - Portable Vapor Combustor  - Apro DBA United Pacific - My Goods #6655  - Extraction Oil & Gas  - Eleven, Inc Store 35828  - Apro DBA United Pacific - My Goods #6504	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lunson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station	4990 Dahla St 385 E 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneids St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5770 Quebec St 3700 E 56th Ave NWNE-3-25-66W 9885 Brighton Rd 6511 Colorado Bivd #2 18314 E 104th Ave SWNWY-2-25-66W 6966 Dahlia	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02
NR Parentoco - Mothership  A&E Tire  - Eleiven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas  - Good Paint, LLC - Metal Finishing Facility  - Fishinker Store - Stinker #301  - Fleven, Inc Store 34087  - enco Industries - DBA Maaco Auto No 707  - app Brothers Denver  - Eaton Metal Products Co.  - ST Metro, LLC - DBA Corner Store #1165  - Fleven, Inc Store 36775  - Colorado Asphalt Services  - Extraction Oil & Gas  - Zarco Equipment, Inc.  - SC Industrial - Portable Vapor Combustor  - Apro DBA United Pacific - My Goods #6655  - Extraction Oil & Gas  - Eleven, Inc Store 35828  - Apro DBA United Pacific - My Goods #6504	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Auphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station	4990 Dahlia St 3855 E SZnd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-2S-66W 9988 Brighton Rd 6511 Colorado Bivd #2 18314 E 104th Ave SWNW-2-2S-66W 6966 Dahlia 4981 E 64th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01
NR Parentcc - Mothership A&E Tire  '-Eleven, Inc Store 35864  '-Eleven, Inc Store 35864  '-Eleven, Inc Store 35864  Fahrining & Fiberglass, Inc.  Storaction Oil & Gas  Sood Palnt, LLC - Metal Finishing Facility  siniher Stores - Stinker #301 Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  sapp Brothers Denver  attom Metal Products Co.  SST Metro, LLC - DBA Corner Store #1165 Eleven, Inc Store 36775  Colorado Asphalt Services  Extraction Oil & Gas  Zarco Equipment, Inc.  SC Industrial - Portable Vapor Combustor  Apro DBA United Pacific - My Goods #6655  Extraction Oil & Gas Eleven, Inc Store 35828  Apro DBA United Pacific - My Goods #6504  Apro DBA United Pacific - My Goods #6504  Apro DBA United Pacific - My Goods #6504  Apra DBA United Pacific - My Goods #6504  Apra Ba Intermountain, Inc. Eleven, Inc Store 39296	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Palnt Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Retail Gasoline Station Retail Gasoline Station	4990 Dahlia St 385 E S2nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66VV 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4900 York St 4900 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNNE3-2S-66VV 9885 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave SWNWY-2-2S-66VV 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01
NR Parenttco - Mothership A&E Tire  'Eleven, Inc Store 35864  'Eleven, Inc Store 35864  'Eleven, Inc Store 35864  Eraining & Fiberglass, Inc.  'Extraction Oil & Gas  Sood Paint, LLC - Metal Finishing Facility  stinker Stores - Stinker #301  'Eleven, Inc Store 34087  sapp Brothers Denver  saton Metal Products Co.  SST Metro, LLC - DBA Comer Store #1165  'Eleven, Inc Store 36775  Colorado Asphalt Services  Extraction Oil & Gas  Zarco Equipment, Inc.  SC Industrial - Portable Vapor Combustor  Apro DBA United Pacific - My Goods #6555  Extraction Oil & Gas  'Eleven, Inc Store 35828  Apro DBA United Pacific - My Goods #6504  Argas Intermountain, Inc.  'Eleven, Inc Store 39296	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Freduction Facility - HSR Ackard 5-2 (Shut In) Retail Gasoline Station Service Station Mell Production Facility - HSR Ackard 5-2 (Shut In) Retail Gasoline Station	4990 Dahlia St 385 E 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 110201 E 107th PI SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Onedds St 7120 E 49th Ave 4900 York St 4500 E 74th Ave 5770 Quebec St 3700 E 56th Ave NWNN2-325-66W 9885 Brighton Rd 6511 Colorado Bhd #2 18314 E 104th Ave SWNW-2-25-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95
NR Parentoco - Mothership  A&E Tire  - Eleiven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas  - Good Paint, LLC - Metal Finishing Facility  - Fishinker Store - Stinker #301  - Fleven, Inc Store 34087  - enco Industries - DBA Maaco Auto No 707  - app Brothers Denver  - Eaton Metal Products Co.  - ST Metro, LLC - DBA Corner Store #1165  - Fleven, Inc Store 36775  - Colorado Asphalt Services  - Extraction Oil & Gas  - Carro Equipment, Inc.  - SCC Industrial - Portable Vapor Combustor  - Apro DBA United Pacific - My Goods #6655  - Everaction Oil & Gas  - Fleven, Inc Store 35828  - Apro DBA United Pacific - My Goods #6504  - Arras Intermountain, Inc.  - Eleven, Inc Store 39296  - Fleven, Inc Store 30213  - Good Paint, LLC - Metal Finishing Facility	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Retail Gasoline Station Gasoline Retail Saclien Gasoline Station Gasoline Retail Saclies Fuel Dispensing Station	4990 Dahlia St 385 E 52nd Ave 8991 E 104th Ave 10201 E 107th PI SENE-3-25-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5770 Quebec St 3700 E 56th Ave NWNE-3-25-66W 9885 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave SWNW-2-25-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Blvd	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95
NR Parentoco - Mothership A&E Tire  'Eleven, Inc Store 35864  'Eleven, Inc Store 35864  'Eleven, Inc Store 35864  Epianing & Fiberglass, Inc.  Straction Oil & Gas  3004 Paint, LLC - Metal Finishing Facility  Britisher Stores - Scinker #301  -Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  apap Brothers Deniver  atten Metal Products Co.  STM Metro, LLC - DBA Corner Store #1165  -Eleven, Inc Store 36775  Colorado Asphalt Services  Extraction Oil & Gas  -Zarco Equipment, Inc.  SC Industrial - Portable Vapor Combustor  Apro DBA United Pacific - My Goods #6655  Extraction Oil & Gas  -Eleven, Inc Store 35828  -Apro DBA United Pacific - My Goods #6504  Airgas Intermountain, Inc  -Eleven, Inc Store 39296  -Eleven, Inc Store 39016  -Eleven, Inc Store 36013	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services Oil and Gas Extraction and Related Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Auphalt Paving Well Production Facility - HSR Lumnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station Retail Gasoline Station Service Station Apphalt Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Retail Gasoline Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Heavy Equipment Surface Coating	4990 Dahlia St 3855 E SZnd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St 6355 E 7Znd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-2S-66W 9885 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave SWNW-2-2S-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Blvd 12060 East 120th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60
NR Parentcc - Mothership A&E Tire  '-Eleven, Inc Store 35864  '-Eleven, Inc Store 3687 Eleven, Inc Store 34087	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Retail Gasoline Station Retail Gasoline Retail Sales Gasoline Retail Sales Fuel Dispensing Station	4990 Dahlia St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 104th Ave 1355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 York St 4800 York St 4900 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNNE3-25-66W 9888 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave SWNWY-25-66W 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Blvd 12060 East 120th Ave 4404 E 60th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60
NR Parenttco - Mothership  NR E Tire  -Beven, Inc Store 35864  -Beven, Inc Store 35864  -Painting & Fiberglass, Inc.  -Extraction Oil & Gas	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Gasoline Station Gasoline Station Paint Spray Operations Gasoline Retail Sates Fuel Dispensing Station Retayl Equipment Surface Coating Retail Gasoline Station	4990 Dahlia St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 11501 E 104th Ave 11510 E 104th Ave 14910 Oneida St 7120 E 49th Ave 14900 Orork St 4800 E 74th Ave 5797 Quebec St 3700 E 56th Ave NVNNE3-25-66W 9885 Brighton Rd 6511 Colorado Bhd #2 18314 E 104th Ave 5797 Ouebec St 3700 E 56th Ave NVNN2-25-66W 6966 Dahlia 14981 E 64th Ave 1775 E 93rd Place 18820 Colorado Bhd 12060 East 120th Ave 1404 E 60th Ave 1706 East 120th Ave 1706 East 120th Ave 1706 East 120th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54
NR Parentzo - Mothership  NE Tire  -Eleven, Inc Store 35864 - Painting & Fiberglass, Inc.  ctrraction Oil & Gas  Sood Paint, LLC - Metal Finishing Facility  titinker Stores - Stinker #301 - Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  app Brothers Denver  atton Metal Products Co.  ST Metro, LLC - DBA Corner Store #1165 - Eleven, Inc Store 36775 - Colorado Asphalt Services  ctrraction Oil & Gas  - Carroe Equipment, Inc.  SC Industrial - Portable Vapor Combustor  typro DBA United Pacific - My Goods #6655  ctrraction Oil & Gas  - Eleven, Inc Store 35828  - Apro DBA United Pacific - My Goods #6504  - Lirgas Intermountain, Inc  - Eleven, Inc Store 39296 - Eleven, Inc St	Other Industrial Services Other Industrial Services Other Industrial Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Gasoline Station Gasoline Retail Sales Fuel Dispensing Station Heavy Equipment Surface Coating Heavy Equipment Surface Coating Retail Gasoline Station Chemical Distribution Container Surface Coating	4990 Dahlia St 385 S 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 11201 E 107th PI SENE-3-25-66W 5720 Holly St 635 S F 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-25-66W 9885 Brighton Rd 6511 Colorado Blvd #12 18314 E 104th Ave 5WNW-2-25-66W 6966 Dahlia 4981 E 64th Ave 8820 Colorado Blvd 11266 East 120th Ave 4404 E 60th Ave 4404 E 60th Ave 4404 E 60th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54
NR Parentzo - Mothership  NE Tire  -Eleven, Inc Store 35864 -Eleven, Inc Store 35864 -Eleven, Inc Store 35864 -Eleven, Inc Store 35864 -Eleven, Inc Store 3607 -Eleven, Inc Store 3607 -Eleven, Inc Store 34087 -Eleven, Inc Store 34087 -Eleven, Inc Store 34087 -Eleven, Inc DBA Camer Store #1165 -Eleven, Inc Store 36775 -Colorado Asphalt Services -Eleven, Inc Store 36775 -Colorado Asphalt Services -Eleven, Inc Store 36775 -Eleven, Inc Store 37276 -Eleven, Inc Store 36013 -Eleven, Inc S	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Auphalt Paving Well Production Facility - HSR Lumnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station Retail Gasoline Station Service Station Apphalt Production Facility - HSR Ackard 5-2 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station Retail Gasoline Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Heavy Equipment Surface Coating Retail Gasoline Station Chemical Distribution Container Surface Coating Metal Parts Coating	4990 Dahlia St 3855 E SZnd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St 6355 E 7Znd Ave 115610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-2S-66W 9988 Brighton Rd 6511 Colorado Bivd #2 18314 E 104th Ave SWNW-2-2S-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Bivd 12060 East 120th Ave 4404 E 60th Ave 5600 E 46th Ave 4404 E 60th Ave 5500 Franklin St 5000 Fd-60th St	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54 1.44
NR Parenttco - Mothership  NE Tire  -Eleven, Inc Store 35864 -Eleven, Inc Store 35864 -Flaining & Fiberglass, Inc.  -Straction Oil & Gas	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station Retail Gasoline Station Retail Gasoline Station Retail Gasoline Retail Sates Fuel Station Retail Gasoline Retail Sates Fuel Dispensing Station Retail Gasoline Station Casoline Retail Sates Fuel Dispensing Station Chemical Distribution Chemical Distribution Container Surface Coating Metal Parts Coating Metal Parts Coating Metal Parts Coating Service Station	4990 Dahlia St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 104th Ave 11540 E 104th Ave 11540 E 104th Ave 14910 Oneida St 7120 E 49th Ave 14900 York St 14500 E 74th Ave 15797 Quebec St 13700 E 56th Ave NWNNE3-25-66W 14988 Brighton Rd 1511 Colorado Bhrd #2 18314 E 104th Ave 1575 E 93rd Place 18820 Colorado Bhrd 12060 East 120th Ave 1400 E 60th Ave 15600 E 64th Ave	3.68 3.63 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54 1.37
NR Parenttco - Mothership  NE Tire  -Eleven, Inc Store 35864 -Eleven, Inc Store 35864 -Flaining & Fliberglass, Inc.  Struction Oil & Gas  Sood Palnt, LLC - Metal Finishing Facility  dinker Stores - Stinker #301 -Eleven, Inc Store 34087 -enco Industries - DBA Maaco Auto No 707  app Brothers Denver  atton Metal Products Co.  STS Metro, LLC - DBA Corner Store #1165 -Eleven, Inc Store 36775 -Colorado Asphalt Services  Struction Oil & Gas  Carco Equipment, Inc.  STG Industrial - Portable Vapor Combustor  Apro DBA United Pacific - My Goods #6655  Struction Oil & Gas  -Eleven, Inc Store 35828 -Apro DBA United Pacific - My Goods #6504 - Variages Intermountain, Inc  -Eleven, Inc Store 39296 - Eleven, Inc Store 39296 - Eleven, Inc Store 39296 - Eleven, Inc Store 36013 - Sood Paint, LLC - Metal Finishing Facility  STST Metro, LLC - DBA Corner Store #669 - Jinvar - Chemical Dist.  Waste Connections, Inc Denver Hauling - Sood Paint, LLC - Jeave-Mart  Stravedion Oil & Gas  ntermountain Wholesale, Inc.	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Retail Gasoline Station Gasoline Retail Sales Fuel Dispensing Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Chemical Distribution Container Surface Coating Retail Gasoline Station Chemical Distribution Container Surface Coating Retail Fuel Dispensing Fuel Coating Retail Gasoline Station Chemical Distribution Container Surface Coating Retail Fuel Dispensing Seation Service Station Well Production Facility - Box Elder Farms 31-21 #2, 41-21 #1 (Shut In)	4990 Dahlia St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 11510 E 104th Ave 14910 Oneida St 7120 E 49th Ave 14910 Oneida St 7120 E 49th Ave 14900 York St 14500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NVNNE-3-25-66W 985 Brighton Rd 6511 Colorado Bhd #2 18314 E 104th Ave 5WNW-2-25-66W 6966 Dahlia 14981 E 64th Ave 1775 E 93rd Place 1820 Colorado Bhd 12060 East 120th Ave 1404 E 60th Ave 1500 E 64th Ave	3.68 3.63 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54 1.37 1.34
NR Parentoco - Mothership  A&E Tire  - Eleiven, Inc Store 35864  - Painting & Fiberglass, Inc.  - Extraction Oil & Gas  - Good Paint, LLC - Metal Finishing Facility  - Fisheren, Inc Store 34087  - Fisheren, Inc Store 34087  - Incomparisher - DAR Maaco Auto No 707  - Stapp Brothers Denver  - Eaton Metal Products Co.  - ST Metro, LLC - DBA Corner Store #1165  - Veleven, Inc Store 36775  - Colorado Asphalt Services  - Extraction Oil & Gas  - Carroe Equipment, Inc.  - PSC Industrial - Portable Vapor Combustor  - Apro DBA United Pacific - My Goods #6655  - Extraction Oil & Gas  - Fleven, Inc Store 35828  - Apro DBA United Pacific - My Goods #6504  - Airgas Intermountain, Inc.  - Eleven, Inc Store 39296  - Fleven, Inc Store 39296	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Piberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Gasoline Station Gasoline Station Retail Gasoline Station Fuel Station Retail Gasoline Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Heavy Equipment Surface Coating Heavy Equipment Surface Coating Retail Gasoline Station Chemical Distribution Container Surface Coating Metal Parts Coating	4990 Dahla St 385 E 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 110201 E 104th Ave 110201 E 104th Ave 110201 E 104th Ave 1510 E 104th Ave 14910 Onedda St 7120 E 49th Ave 14910 Onedda St 7120 E 49th Ave 14900 C 70rk St 14500 E 74th Ave 1500 E 74th Ave 1501 E 75th Ave 1500 E 64th Ave 1500 E 65th Ave	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54 1.44 1.37 1.34 1.37
NR Parentoco - Mothership  A&E Tire  - V-Eleven, Inc Store 35864 - V-Eleven, Inc Store 3607 - V-Eleven, Inc Store 34087 - V-Eleven, Inc Store 34087 - V-Eleven, Inc Store 34087 - V-Eleven, Inc DBA Corner Store #1165 - V-Eleven, Inc Store 36775 - V-Eleven, Inc Store 35828 - V-Eleven, Inc Store 36013 - V-Eleven, Inc	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Service Station Service Station Auphalt Paving Well Production Facility - HSR Lumnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Heavy Equipment Surface Coating Retail Gasoline Station Chemical Distribution Container Surface Coating Metal Parts Coating Metal Parts Coating Service Station Facility - Box Elder Farms 31-21 #2, 41-21 #1 (Shut In) Trailer Manufacturer Manufacture of Fiberglass Structures (Buildings)	4990 Dahlia St 3855 E SZnd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St 6355 E 72nd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-2S-66W 9988 Brighton Rd 6511 Colorado Bivd #2 18314 E 104th Ave SWNW-2-2S-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Bivd 12060 East 120th Ave 4404 E 60th Ave 5600 E 64th Ave 4300 Holly St 5500 Franklin St 6292 Colorado Bivd 6590 Ohnaco St NWNS E S 21 T S R 66W 4565 E 74th Ave	3.68 3.63 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.44 1.37 1.34 1.34 1.34
NR Parentzo - Mothership  A&E Tire	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Gasoline Station Casoline Retail States Retail Gasoline Station Heavy Equipment Surface Coating Retail Gasoline Station Chemical Distribution Chemical Distribution Chemical Distribution Trailer Manufacturer Manufacture of Fiberglass Structures (Buildings) Manufacturing Condensation & Evaporative Colls for AC Systems	4990 Dahlia St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 104th Ave 11501 E 104th Ave 11501 E 104th Ave 11501 E 104th Ave 14910 Oneida St 7120 E 49th Ave 14900 York St 14500 E 74th Ave 15797 Quebec St 3700 E 56th Ave NWNE-3-25-66W 9988 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave SWNW-2-25-66W 14966 Dahlia 14981 E 64th Ave 18775 E 93rd Place 18820 Colorado Blvd 12060 East 120th Ave 1400 E 66th Ave 1400 E 66th Ave 1400 E 66th Ave 1400 E 66th Ave 1400 E 67th Ave 1500 Fanklin St 16292 Colorado Blvd 1500 E 64th Ave 1500 Fanklin St 16292 Colorado Blvd 1500 E 64th Ave 1500 Fanklin St 16292 Colorado Blvd 1500 E 64th Ave 1500 Monaco St 1500 Monaco St 1500 Fanklin St 16292 Colorado Blvd 1655 E 74th Ave 16500 E 67th Ave 16500 Monaco St	3.68 3.63 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.44 1.37 1.34 1.34 1.35
NR Parentzo - Mothership  A&E Tire	Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Biberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Retail Gasoline Station Retail Gasoline Station Service Station Retail Gasoline Station Service Station Retail Gasoline Station Gasoline Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Chemical Distribution Container Surface Coating Retail Gasoline Station Vetel Production Facility - Box Elder Farms 31-21 #2, 41-21 #1 (Shut In) Trailer Manufacturer Manufacturer of Metal Plater Farms 31-21 #2, 41-21 #1 (Shut In) Trailer Manufacturer Manufacturer of Fiberglass Structures (Buildings) Manufacturing Condensation & Evaporative Coils for AC Systems Convenience Store	4990 Dahlia St 385 E S 2nd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 10201 E 104th Ave 11501 E 104th Ave 14910 Oneida St 7120 E 49th Ave 4910 Oneida St 7120 E 49th Ave 4900 York St 4800 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNNE-3-25-66W 9885 Brighton Rd 6511 Colorado Blvd #2 18314 E 104th Ave 5WNW-2-25-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Blvd 12060 East 120th Ave 4300 Holly St 5500 Fanklin St 6292 Colorado Blvd 6590 Monaco St NWNE Sec 21 T2S R66W 4565 E 74th Ave 64900 Elm St 64903 Oneida St 64903 Oneida St 64903 Oneida St	3.68 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54 1.44 1.37 1.34 1.34 1.34 1.34 1.35
NR Parentzo - Mothership  NE Tire  -Eleven, Inc Store 35864 - Painting & Fiberglass, Inc.  ctrraction Oil & Gas  Sood Paint, LLC - Metal Finishing Facility  titinker Stores - Stinker #301 - Eleven, Inc Store 34087  enco Industries - DBA Maaco Auto No 707  app Brothers Denver  atton Metal Products Co.  ST Metro, LLC - DBA Corner Store #1165 - Eleven, Inc Store 36775 - Colorado Asphalt Services  ctrraction Oil & Gas  - Carro Equipment, Inc.  SC Industrial - Portable Vapor Combustor  typro DBA United Pacific - My Goods #6655  ctrraction Oil & Gas  - Eleven, Inc Store 35828 - Store DBA United Pacific - My Goods #6504 - Liggs Intermountain, Inc Eleven, Inc Store 39296 - Eleven, Inc Store 23829 - Eleven, Inc Store 13829 - Eleven, Inc Store 13829 - Eleven, Inc Store 23829 - Eleven, Inc Store	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Retail Gasoline Station Gasoline Station Facility - HSR Ackard 5-2 (Shut In) Retail Fuel Station Paint Spray Operations Gasoline Retail Sales Fuel Dispensing Station Heavy Equipment Surface Coating Retail Gasoline Station Chemical Distribution Container Surface Coating Metal Production Facility - Box Elder Farms 31-21 #2, 41-21 #1 (Shut In) Trailer Manufacturer Manufacture of Fiberglass Structures (Buildings) Manufacturing Condensation & Evaporative Coils for AC Systems Convenience Store Auto Body Repair Shop	4990 Dahla St 385 S 52nd Ave 8991 E 104th Ave 10201 E 104th Ave 110201 E 104th Ave 110201 E 104th Ave 110201 E 104th Ave 110201 E 104th Ave 14910 Chedda St 7120 E 49th Ave 49910 Chedda St 7120 E 49th Ave 49910 Chedda St 7120 E 49th Ave 4900 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNNE3-25-66W 9885 Brighton Rd 6511 Colorado Bhd #2 18314 E 104th Ave 5WNW-2-2S-66W 6966 Dahla 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Bhd 12060 East 120th Ave 4404 E 60th Ave 4404 E 60th Ave 4300 Holly St 5500 Franklin St 6292 Colorado Bhd 6590 Monaco St NWNE Sec 21 T2S R66W 4565 E 74th Ave 6900 Elm St 4903 Chelda St 6490 Colorado St NWNE Sec 21 T2S R66W 4565 E 74th Ave 6900 Elm St 4903 Chelda St 64903 Chelda St 64903 Chelda St 64903 Chelda St 64903 Chelda St	3.68 3.63 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.54 1.44 1.37 1.34 1.34 1.35 1.25 1.21 1.07 1.03
NR Parentoco - Mothership A&E Tire	Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services Oil and Gas Extraction and Related Services Other Industrial Services	Mip Manufacturing Facility Rubber Tire Retreading Facility Fuel Dispensing Station Manufacturing of Fiberglass Parts Well Production Facility - HSR Lawson 8-3 (Shut In) Powder Coating and Paint Spray Operations - Metal Finishing Retail Gasoline Station Fuel Service Station Automotive Body Repair and Refinishing Truck Stop Manufacture of Metal Plate Products Retail Gasoline Station Service Station Asphalt Paving Well Production Facility - HSR Lunnon 2-3 (Shut In) Sandblasting and Surface Coating of Heavy Equipment Portable Vapor Combustor Fuel Station Well Production Facility - HSR Ackard 5-2 (Shut In) Retail Gasoline Station Retail Gasoline Station Retail Gasoline Station Paint Spray Operations Gasoline Retail State Fuel Dispensing Station Heavy Equipment Surface Coating Retail Gasoline Station Container Surface Coating Metal Parts Coating Metal Parts Coating Service Station Mela Parts Coating Service Station Manufacturing Condensation & Exporative Cols for AC Systems Convenience Store Auto Body Repair Shop Paint Spray Booth	4990 Dahlia St 3855 E SZnd Ave 8991 E 104th Ave 10201 E 104th Ave 10201 E 107th PI SENE-3-2S-66W 5720 Holly St 6355 E 7Znd Ave 15610 E 104th Ave 4910 Oneida St 7120 E 49th Ave 4800 York St 4800 York St 4500 E 74th Ave 5797 Quebec St 3700 E 56th Ave NWNE-3-2S-66W 9988 B righton Rd 6511 Colorado Bivd #2 18314 E 104th Ave SWNW-2-2S-66W 6966 Dahlia 4981 E 64th Ave 8775 E 93rd Place 8820 Colorado Bivd 12060 East 120th Ave 4404 E 60th Ave 5400 Holly St 5500 Franklin St 6292 Colorado Bivd 6590 Monaco St NWNE-S 25 T 25 R 66W 4565 E 74th Ave 6900 Elm St 4903 Oneida St 4903 Oneida St 6302 E 72nd Ave 5300 Monroe St 7051 E 56th Ave	3.68 3.63 3.63 3.51 3.45 3.44 3.24 3.15 3.04 2.92 2.92 2.90 2.77 2.76 2.53 2.38 2.25 2.24 2.22 2.06 2.02 2.01 2.00 1.95 1.86 1.60 1.54 1.44 1.37 1.34 1.35 1.34 1.25 1.21 1.07 1.03 1.02

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate (tons/yr)
Universal Fleet RV and Auto Collision	Other Industrial Services	Automotive Body Repair and Refinishing	4545 E 52nd Ave	0.75
Divine Coaches	Other Industrial Services	Auto Paint Booth	5491 Newport St	0.68
Gasamat Oil Corp. #537	Other Industrial Services	Retail Gasoline Station	4545 E 52nd Ave	0.64
Heritage Window Restoration	Other Industrial Services	Millwork / Wood Finishing	5800 E 58th Ave., Unit K	0.64
Crystal Packaging	Petroleum Refining and Related Industries	Blending of Lubricants and Glycol (For Deicers)	9155 Boston St	0.58
RB Food and Gas	Other Industrial Services	Retail Gasoline Station	11010 E 120th Ave	0.58
Murphy Oil USA - Murphy's Express 8825	Other Industrial Services	Service Station	8799 Brighton Rod	0.52
U-Pump-lt - No 802	Other Industrial Services	Retail Gasoline Station	5403 Quebec St	0.51
Citaula Brothers 3 - Shop N Save	Other Industrial Services	Retail Gasoline Station	7191 Quebec St	0.47
Adams County Government Center	Other Industrial Services	Adams County Government Center - Emergency Generator	4430 S Adams County Pkwy	0.39
Diversified Body & Paint Shop	Other Industrial Services	Auto Body Repair and Refinishing - Commercial Truck and RV	9551 Willow Court	0.35
Safeway Milk Plant	Food and Kindred Products	Milk Plant	4301 Forest St	0.35
Green Brothers Oil Co.	Other Industrial Services	Gasoline Dispensation	5335 Harrison St	0.34
City & County Of Denver	Oil and Gas Extraction and Related Services	E&P Condensate Storage Tank Battery	NWSE Sec 32 TIS R65W	0.32
Offen Petroleum, Inc DBA Tartan Texaco	Other Industrial Services	Retail Gasoline Station	5400 Brighton Blvd	0.29
Morgan Corporation	Other Industrial Services	Parts and Service Facility	4985 York St	0.25
Ready Mixed Concrete Co Franklin Plant 2	Other Industrial Services	Concrete Batch Plant	5775 Franklin St	0.24
WestRock CP - WestRock Denver Corrugated	Other Industrial Services	Corrugated Paper Products Manufacturing Facility	5050 E 50th Ave	0.23
4283929 Delaware, LLC - Henderson	Other Industrial Services	Pet Crematory	9731 Hanover Ct E	0.22
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed and Flour Mill	4545 E 64th Ave	0.20
One Stop Automotive DBA Ralphs Auto Body	Other Industrial Services	Auto Body Shop	5895 Quebec St	0.18
Caliber Bodyworks	Other Industrial Services	Autobody Shop	6691 Colorado Blvd	0.17
Colorado Serum Co.	Other Industrial Services	Veterinary Products	4950 York St	0.13
United Asphalts, Inc.	Petroleum Refining and Related Industries	Roofing Asphalt Manufacturing	4306 E 60th Ave	0.12
BKEP Materials - Denver C & K	Petroleum Refining and Related Industries	Liquid Asphalt Blending, Storage, and Distribution	4310 E 60th Ave	0.09
Denver Pet Cemetery	Other Industrial Services	Pet Crematory	5721 E 72nd Ave	0.08
Denver Water - Reuse Plant	Electric Gas and Sanitary Services	Electric Gas and Sanitary Services - Water Supply	5650 York St	0.07
U.S. Postal Service - Denver Bulk Mail Center	Other Industrial Services	USPS Parcel Processing Facility	7755 E 56th Ave	0.07
Alsco	Other Industrial Services	Industrial Laundry	5090 Cook St	0.07
City of Thornton - East Gravel Lakes	Other Industrial Services	East Gravel Lakes Pump Station #4	4300 East 88th Ave	0.07
CO Asphalt Services, LLC - Recycle Plant	Petroleum Refining and Related Industries	Recycle Plant Site	3400 E 56th Ave	0.05
Purina Animal Nutrition - Henderson	Food and Kindred Products	Animal Feed Manufacturing Facility	9200 E 90th Ave	0.03
U.E. Compression	Other Industrial Services	Paint Spray Operations for Servicing of Equipment	6030 E 50th Ave	0.03
Purina Animal Nutrition, LLC	Food and Kindred Products	Manufacture of Animal Feed	6151 Brighton Blvd	0.02
Ward Transport, Inc.	Other Industrial Services	Bulk Transportation	5901 Dexter St	0.01
Caterpillar, Inc.	Other Industrial Services	Machine Parts Distribution Warehouse	4705 E 48th Ave	0.01
Birko Corp - Chemical Blending Plant	Other Industrial Services	Blending of Chemical Mixtures	9152 Yosemite St	0.01
Gem Mobile - Port Thermal Oxidizer	Other Industrial Services	Portable Thermal Oxidizer for Tank De-Gassing - Gem Mts	580 I Brighton Blvd	0.005
Colorado Wilbert Vault Co.	Other Industrial Services	Burial Vaults & Cremation	4985 Locust St	0.01

Source: CDPHE APCD 2021

Notes:

1. List organized from highest to lowest estimated actual annual VOC emissions.

1,353



## Appendix D. Sulfur Dioxide (SO<sub>2</sub>) Emissions Summary

### Sulfur Dioxide (SO<sub>2</sub>) Emissions Summary

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate
Samuel Barrer Barrer	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	(tons/yr) 223.2
Suncor Energy - Denver Refinery	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	90.84
Metro Wastewater Reclamation Dist/Trigen	,,,	· ·		
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	34.34
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	9.84
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	7.43
Adams County Government Center	Other Industrial Services	Adams County Government Center - Emergency Generator	4430 S Adams County Pkwy	4.47
4283929 Delaware, LLC - Henderson	Other Industrial Services	Pet Crematory	9731 Hanover Ct E	1.60
City & County of Denver - Roslyn	Other Industrial Services	Maintenance Complex	5440 Roslyn St	0.78
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant	7271 Colorado Blvd	0.73
Chemtrade Holdco U.S Chemtrade Solutions	Other Industrial Services	Aluminum Sulfate Solution Production Facility	5075 E. 50th Ave	0.65
U.S. Postal Service - Denver Bulk Mail Center	Other Industrial Services	USPS Parcel Processing Facility	7755 E 56th Ave	0.36
Trustile Doors, LLC	Other Industrial Services	Wood Door Manufacturing Facility	1780 E 66th Ave	0.30
Colorado Serum Co.	Other Industrial Services	Veterinary Products	4950 York St	0.29
Colorado Asphalt Services	Petroleum Refining and Related Industries	Asphalt Paving	3700 E 56th Ave	0.23
Colorado Wilbert Vault Co.	Other Industrial Services	Burial Vaults & Cremation	4985 Locust St	0.17
City of Thornton - East Gravel Lakes	Other Industrial Services	East Gravel Lakes Pump Station #4	4300 East 88th Ave	0.08
Denver Pet Cemetery	Other Industrial Services	Pet Crematory	5721 E 72nd Ave	0.08
Darling Ingredients Inc.	Food and Kindred Products	Rendering Plant	5701 York St # 5800	0.05
Crystal Packaging	Petroleum Refining and Related Industries	Blending of Lubricants and Glycol (for Deicers)	9155 Boston St	0.05
Bimbo Bakeries USA, Inc.	Food and Kindred Products	Bread And Bun Bakery	7300 Brighton Blvd	0.02
BKEP Materials - Denver C & K	Petroleum Refining and Related Industries	Liquid Asphalt Blending, Storage, and Distribution	4310 E 60th Ave	0.01
Safeway Milk Plant	Food and Kindred Products	Milk Plant	4301 Forest St	0.01
Purina Animal Nutrition - Henderson	Food and Kindred Products	Animal Feed Manufacturing Facility	9200 E 90th Ave	0.01
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed and Flour Mill	4545 E 64th Ave	0.01
Westrock CP - Westrock Denver Corrugated	Other Industrial Services	Corrugated Paper Products Manufacturing Facility	5050 E 50th Ave	0.01
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	0.002
Purina Animal Nutrition, LLC	Food and Kindred Products	Manufacture of Animal Feed	6151 Brighton Blvd	0.002
NRG Reliability Solutions - Mile Hi Bakery	Other Industrial Services	Emergency Generators	4545 East 51St Ave	0.0001

TOTAL	376

 $<sup>\</sup>frac{\text{Notes:}}{\text{I. List organized from highest to lowest estimated actual annual SO}_2 \, \text{emissions.}}$ 



Appendix E. Particulate Matter less than 10 micrometers in diameter (PM<sub>10</sub>) Emissions Summary

### Particulate Matter less than 10 micrometers in diameter ( $PM_{10}$ ) Emissions Summary

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate
				(tons/yr)
Suncor Energy - Denver Refinery	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	130.0
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	91.16
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	60.84
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed and Flour Mill	4545 E 64th Ave	58.86
Commerce City Grain	Food and Kindred Products	Grain Elevator	4600 E 64th Ave	18.25
Albert Frei & Sons - Fernald Pit	Other Industrial Services	S&G Processing Activities	7281 Colorado Blvd	17.65
Basalite Concrete Products	Other Industrial Services	Cement Concrete Blocks / Pavers Manufacturing Plant	4900 Race St	11.94
General Scrap, Inc DBA Evraz N.A.	Other Industrial Services	Scrap Metal Recycling	5601 York St	7.58
JK Concepts	Other Industrial Services	Woodwork Manufacturing	3333 E 52nd Ave	7.00
Brannan Ready Mix Company	Other Industrial Services	Concrete Batching Plant	7291 Colorado Blvd	5.80
United Asphalts, Inc.	Petroleum Refining and Related Industries	Roofing Asphalt Manufacturing	4306 E 60th Ave	5.63
City & County of Denver - Roslyn	Other Industrial Services	Maintenance Complex	5440 Roslyn St	4.98
Trustile Doors, LLC	Other Industrial Services	Wood Door Manufacturing Facility	1780 E 66th Ave	4.60
Good Paint, LLC	Other Industrial Services	Heavy Equipment Surface Coating	4404 E 60th Ave	4.23
A&E Tire	Other Industrial Services	Rubber Tire Retreading Facility	3855 E 52nd Ave	4.20
Metro Wastewater Reclamation Dist/Trigen	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	3.57
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	3.52
Ready Mixed Concrete Co Franklin Plant 2	Other Industrial Services	Concrete Batch Plant	5775 Franklin St	3.45
GCC Rio Grande, Inc Irondale Terminal	Other Industrial Services	Cement Bulk Distribution Terminal	9290 Heinze Way	3.38
4283929 Delaware, LLC - Henderson	Other Industrial Services	Pet Crematory	9731 Hanover Ct E	3.36
Purina Animal Nutrition - Henderson	Food and Kindred Products	Animal Feed Manufacturing Facility	9200 E 90th Ave	3.30
Rocky Mountain Transload, Inc.	Other Industrial Services	Bulk Materials Transshipment Facility	7350 Krameria Dr	2.62
Allied Demo - Allied Recycled Aggregates	Electric Gas and Sanitary Services	Concrete / Asphalt Recycling	7901 US Highway 85	2.22
Colorado Asphalt Services	Petroleum Refining and Related Industries	Asphalt Paving	3700 E 56th Ave	2.19
Agg Industries - Commerce City Ready Mix	Other Industrial Services	Concrete Batch Plant	9052 Quince St	2.18
Villalobos Concrete - Port Concrete Plant	Other Industrial Services	Concrete Batch Plant	104th at Brighton Rd	2.18
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant	7271 Colorado Blvd	1.89
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	1.82
N.A. Galvanizing Co	Other Industrial Services	Hot Dip Galvanizing	4400 E 61st Ave	1.60
WestRock CP - WestRock Denver Corrugated	Other Industrial Services	Corrugated Paper Products Manufacturing Facility	5050 E 50th Ave	1.59
Bestway Concrete Co.	Other Industrial Services	Concrete Batch Plant	5901 York St	1.58
L.G. Everist, Inc.	Other Industrial Services	Stone Products	7321 E 88th Ave Ste 200	1.37
Agfinity, Inc Henderson Fertilizer	Other Industrial Services	Dry Fertilizer Blending & Wet Fertilizer Storage	12390 US Highway 85	1.16
Bestway Concrete - Dallas Plant	Other Industrial Services	Concrete Batching Plant	10040 Dallas St	1.14
Pavestone, LLC	Other Industrial Services	Stone, Clay, Glass and Concrete Products	9401 E 96th Ave	0.96
Omega Products International, Inc.	Other Industrial Services	Cement and Acrylic Stucco Products	6101 Dexter St	0.94
Acme Manufacturing - Zinc Plating Facility	Other Industrial Services	Zinc Plating Line for Metal Parts Manufacturing	4650 Leyden St	0.90
Master Builders Solutions - Brighton Facility	Other Industrial Services	Sealant/Adhesive Manufacture	10601 Fulton St	0.86
New Deal Deicing - Denver Plant	Other Industrial Services	Manufacturing of Pelletized Deicing Agents	6883 E 47th Ave Dr	0.84
All Recycling North, LLC	Other Industrial Services	Municipal Waste Transshipment Facility	5350 Washington St	0.80
CO Asphalt Services, LLC - Recycle Plant	Petroleum Refining and Related Industries	Recycle Plant Site	3400 E 56th Ave	0.74
Darling Ingredients, Inc.	Food and Kindred Products	Rendering Plant	5701 York St # 5800	0.70
Crystal Packaging	Petroleum Refining and Related Industries	Blending of Lubricants and Glycol (For Deicers)	9155 Boston St	0.67
Eaton Metal Products Co.	Other Industrial Services	Manufacture of Metal Plate Products	4800 York St	0.55
	Other Industrial Services Other Industrial Services	Sandblasting and Surface Coating of Heavy Equipment	9885 Brighton Rd	0.52
Zarco Equipment, Inc.  Lawrence Construction Co.	Other Industrial Services Other Industrial Services	Borrow Pit	72nd Avenue, 1200 Ft E of York	0.49
Allied Waste Transport	Other Industrial Services Other Industrial Services	Industrial Spray Coating	5075 E 74th Ave	0.40
Adams County Government Center	Other Industrial Services Other Industrial Services	Adams County Government Center - Emergency Generator	4430 S Adams County Parkway	0.39
U.E. Compression - Henderson Facility	Other Industrial Services Other Industrial Services	Coating and Blasting of Structural Steel	9461 Willow Ct	0.26
Paxton Hardwoods, LLC	Other Industrial Services Other Industrial Services	Wood Molding Manufacture	4837 Jackson St	0.25
		Veterinary Products	4950 York St	0.24
Colorado Serum Co.	Other Industrial Services	Burial Vaults & Cremation	4985 Locust St	0.24
Colorado Wilbert Vault Co.	Other Industrial Services			0.23
Bimbo Bakeries USA, Inc.	Food and Kindred Products	Bread And Bun Bakery	7300 Brighton Blvd 9455 Boston Ct	0.20
Forterra Pipe/Precast	Other Industrial Services	Concrete Batch Plant		
CAT Construction Company	Other Industrial Services	Portable Crusher/Screen  Concrete Barch Plant	6950 York St 9405 Alton Court	0.16
Forterra Pipe/Precast	Other Industrial Services			
Commercial Resins Company, Inc.	Other Industrial Services	Rebar Coating & Fabrication	8100 E 96th Ave	0.15
Flashfill Services, LLC - Denver Yard	Other Industrial Services	Fly Ash Storage Silos	8830 Yosemite St	0.14
Safeway Milk Plant	Food and Kindred Products	Milk Plant	4301 Forest St	0.14
BKEP Materials - Denver C & K	Petroleum Refining and Related Industries	Liquid Asphalt Blending, Storage, and Distribution	4310 E 60th Ave	0.12
Chemtrade Holdco U.S Chemtrade Solutions	Other Industrial Services	Aluminum Sulfate Solution Production Facility	5075 E. 50th Ave	0.12
Birko Corp - Chemical Blending Plant	Other Industrial Services	Blending of Chemical Mixtures	9152 Yosemite St	0.11
Good Paint, LLC - Metal Finishing Facility	Other Industrial Services	Powder Coating and Paint Spray Operations - Metal Finishing	5720 Holly St	0.10
U.S. Postal Service - Denver Bulk Mail Center	Other Industrial Services	USPS Parcel Processing Facility	7755 E 56th Ave	0.10
Alsco	Other Industrial Services	Industrial Laundry	5090 Cook St	0.09
City of Thornton - East Gravel Lakes	Other Industrial Services	East Gravel Lakes Pump Station #4	4300 East 88th Ave	0.09
Steel Storage Systems, Inc.	Other Industrial Services	Paint Booth	6301 Dexter St	0.09
Boral Resources - Irondale Terminal	Other Industrial Services	Portland Cement / Fly Ash Transfer Terminal	Yosemite St at E 88th Ave	0.06
Brannan Sand And Gravel - Port Screen	Other Industrial Services	JCI GT205S 5 X 20 Portable Screen	7271 Colorado Blvd	0.06
Airgas Intermountain, Inc	Other Industrial Services	Paint Spray Operations	8775 E 93rd Pl	0.05
Denver Pet Cemetery	Other Industrial Services	Pet Crematory	5721 E 72nd Ave	0.03
Boral Roofing, LLC	Other Industrial Services	Concrete Roof Tile Manufacturing	10121 Dallas St	0.03
Universal Fleet RV and Auto Collision	Other Industrial Services	Automotive Body Repair and Refinishing	4545 E 52nd Ave	0.03
Purina Animal Nutrition, LLC	Food and Kindred Products	Manufacture of Animal Feed	6151 Brighton Blvd	0.02
Caterpillar, Inc.	Other Industrial Services	Machine Parts Distribution Warehouse	4705 E 48th Ave	0.01
Sashco, Inc.	Other Industrial Services	Caulk And Wood Stain Manufacturing	10300 E 107th Pl	0.01
Boral Materials Tech - Denver Terminal	Other Industrial Services	Ash Handling	9000 E 90th Ave	0.01
Morgan Corporation	Other Industrial Services	Parts and Service Facility	4985 York St	0.004
NRG Reliability Solutions - Mile Hi Bakery	Other Industrial Services	Emergency Generators	4545 East 51st Ave	0.004
Source: CDPHE APCD 2021	•	•		

Source: CDPHE APCD 2021

I. List organized from highest to lowest estimated actual annual  $\mbox{PM}_{10}$  emissions.

TOTAL	490



Appendix F. Particulate Matter less than 2.5 micrometers in diameter (PM<sub>2.5</sub>) Emissions Summary

### Particulate Matter less than 2.5 micrometers in diameter ( $PM_{2.5}$ ) Emissions Summary

Encility Name	Saurea Tima	Saumea Description	Source Location	Facility Emissions Estimate
Facility Name	Source Type	Source Description		(tons/yr)
Suncor Energy - Denver Refinery	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	119.5
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	60.84
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	20.24
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed and Flour Mill	4545 E 64th Ave	16.84
JK Concepts	Other Industrial Services	Woodwork Manufacturing	3333 E 52nd Ave	7.00
Commerce City Grain	Food and Kindred Products	Grain Elevator	4600 E 64th Ave	6.29
United Asphalts, Inc.	Petroleum Refining and Related Industries	Roofing Asphalt Manufacturing	4306 E 60th Ave	5.63
Albert Frei & Sons - Fernald Pit	Other Industrial Services	S&G Processing Activities	7281 Colorado Blvd	5.19
Trustile Doors, LLC	Other Industrial Services	Wood Door Manufacturing Facility	1780 E 66th Ave	4.00
Metro Wastewater Reclamation Dist/Trigen	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	3.57
Basalite Concrete Products	Other Industrial Services	Cement Concrete Blocks / Pavers Manufacturing Plant	4900 Race St	3.55
GCC Rio Grande, Inc Irondale Terminal	Other Industrial Services	Cement Bulk Distribution Terminal	9290 Heinze Way	3.38
4283929 Delaware, LLC - Henderson	Other Industrial Services Other Industrial Services	Pet Crematory	9731 Hanover Ct E	3.10
Allied Demo - Allied Recycled Aggregates	Electric Gas and Sanitary Services	Concrete / Asphalt Recycling	7901 US Highway 85	2.26
	·	Concrete Batch Plant	9052 Ouince St	2.18
Agg Industries - Commerce City Readymix	Other Industrial Services	Concrete Batch Plant	5775 Franklin St	2.00
Ready Mixed Concrete Co Franklin Plant 2	Other Industrial Services			
Brannan Ready Mix Company	Other Industrial Services	Concrete Batch Plant	7291 Colorado Blvd	1.71
N.A. Galvanizing Co.	Other Industrial Services	Hot Dip Galvanizing	4400 E 61st Ave	1.60
WestRock CP - WestRock Denver Corrugated	Other Industrial Services	Corrugated Paper Products Manufacturing Facility	5050 E 50th Ave	1.59
Purina Animal Nutrition - Henderson	Food and Kindred Products	Animal Feed Manufacturing Facility	9200 E 90th Ave	1.50
A&E Tire	Other Industrial Services	Rubber Tire Retreading Facility	3855 E 52nd Ave	1.48
City & County of Denver - Roslyn	Other Industrial Services	Maintenance Complex	5440 Roslyn St	1.45
Rocky Mountain Transload, Inc.	Other Industrial Services	Bulk Materials Transshipment Facility	7350 Krameria Dr	1.34
General Scrap, Inc DBA Evraz N.A.	Other Industrial Services	Scrap Metal Recycling	5601 York St	1.15
Omega Products International, Inc.	Other Industrial Services	Cement and Acrylic Stucco Products	6101 Dexter St	0.94
Acme Manufacturing - Zinc Plating Facility	Other Industrial Services Other Industrial Services	Zinc Plating Line for Metal Parts Manufacturing	4650 Leyden St	0.90
		Sealant/Adhesive Manufacture	10601 Fulton St	0.85
Master Builders Solutions - Brighton Facility	Other Industrial Services	Seaiant/Adnesive Manufacture  Manufacturing of Pelletized Deicing Agents	6883 E 47th Ave Dr	
New Deal Deicing - Denver Plant	Other Industrial Services	0 0 0		0.84
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant	7271 Colorado Blvd	0.79
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	0.73
Darling Ingredients, Inc.	Food and Kindred Products	Rendering Plant	5701 York St # 5800	0.69
Crystal Packaging	Petroleum Refining and Related Industries	Blending of Lubricants And Glycol (For Deicers)	9155 Boston St	0.67
Pavestone, LLC	Other Industrial Services	Stone, Clay, Glass and Concrete Products	9401 E 96th Ave	0.66
Bestway Concrete Co.	Other Industrial Services	Concrete Batch Plant	5901 York St	0.59
Eaton Metal Products Co.	Other Industrial Services	Manufacturer of Metal Plate Products	4800 York St	0.55
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	0.43
Good Paint, LLC - Metal Finishing Facility	Other Industrial Services	Heavy Equipment Surface Coating	4404 E 60th Ave	0.42
Agfinity, Inc Henderson Fertilizer	Other Industrial Services	Dry Fertilizer Blending & Wet Fertilizer Storage	12390 US Highway 85	0.41
Bestway Concrete - Dallas Plant	Other Industrial Services Other Industrial Services	Concrete Batching Plant	10040 Dallas St	0.40
	Other Industrial Services Other Industrial Services	Industrial Spray Coating	5075 E 74th Ave	0.40
Allied Waste Transport		Adams County Government Center - Emergency Generator	4430 S Adams County Pkwy	0.39
Adams County Government Center	Other Industrial Services			
L.G. Everist, Inc.	Other Industrial Services	Stone Products	7321 E 88th Ave Ste 200	0.30
Villalobos Concrete - Port Concrete Plant	Other Industrial Services	Concrete Batch Plant	104th at Brighton Rd	0.27
Colorado Serum Co.	Other Industrial Services	Veterinary Products	4950 York St	0.24
Bimbo Bakeries USA, Inc.	Food and Kindred Products	Bread And Bun Bakery	7300 Brighton Blvd	0.20
All Recycling North, LLC	Other Industrial Services	Municipal Waste Transshipment Facility	5350 Washington St	0.20
Colorado Asphalt Services	Petroleum Refining and Related Industries	Asphalt Paving	3700 E 56th Ave	0.20
Colorado Wilbert Vault Co.	Other Industrial Services	Burial Vaults & Cremation	4985 Locust St	0.19
Forterra Pipe/Precast	Other Industrial Services	Concrete Batch Plant	9455 Boston Ct	0.17
Zarco Equipment, Inc.	Other Industrial Services	Sandblasting and Surface Coating of Heavy Equipment	9885 Brighton Rd	0.15
Paxton Hardwoods, LLC	Other Industrial Services	Wood Molding Manufacture	4837 Jackson St	
Lawrence Construction Co.				0.15
Safeway Milk Plant	Other Industrial Services	Borrow Pit	72nd Avenue, 1200 Ft E of York	0.15
	Other Industrial Services  Food and Kindred Products		72nd Avenue, I 200 Ft E of York 4301 Forest St	
Commercial Resins Company Inc	Food and Kindred Products	Milk Plant	4301 Forest St	0.14
Commercial Resins Company, Inc.	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication	4301 Forest St 8100 E 96th Ave	0.14 0.14 0.12
BKEP Materials - Denver C & K	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave	0.14 0.14 0.12 0.12
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave	0.14 0.14 0.12 0.12 0.12
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St	0.14 0.14 0.12 0.12 0.12 0.12
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services Other Industrial Services Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Scorage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ash Scorage Silos	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St	0.14 0.14 0.12 0.12 0.12 0.11 0.10
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Alluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 7755 E 56th Ave	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry  East Gravel Lakes Pump Station #4	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8330 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Hashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry  East Gravel Lakes Pump Station #4	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8330 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Bliending Plant Plashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 9090 Cook St 4300 East 88th Ave 5720 Holly St	0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry  East Gravel Lakes Pump Station #4  Powder Coating and Paint Spray Operations - Metal Finishing  Recycle Plant Site	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 9152 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.09 0.08
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Hashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc.	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Alluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 9152 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.09 0.08 0.08
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Hashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterra Pipel Precast Airgas Intermountain, Inc.	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ach Storage Silos  USPS Parcel Processing Facility  Industrial Laundry  East Gravel Lakes Pump Station #4  Powder Coating and Paint Spray Operations - Metal Finishing  Recycle Plant Site  Paint Booth  Concrete Batch Plant	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 9755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St 9405 Alton Ct	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.09 0.08 0.08
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Fortera Pipe/Precast Alagsa Intermountain, Inc. Denver Pet Cemetery	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry  East Gravel Lakes Pump Station #4  Powder Coating and Paint Spray Operations - Metal Finishing  Recycle Plant Site  Paint Booth  Concrete Batch Plant  Paint Spray Operations  Pet Crematory	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 575 E 50th Ave 9152 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterra Pipe/Precast Airgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC	Food and Kindred Products Other Industrial Services Petroleum Refining and Related Industries Other Industrial Services	Milk Plant  Rebar Coating & Fabrication  Liquid Asphalt Blending, Storage, and Distribution  Aluminum Sulfate Solution Production Facility  Blending of Chemical Mixtures  Fly Ash Storage Silos  USPS Parcel Processing Facility  Industrial Laundry  East Gravel Lakes Pump Station #4  Powder Coating and Paint Spray Operations - Metal Finishing  Recycle Plant Site  Paint Booth  Concrete Batch Plant  Paint Spray Operations  Pet Crematory  Concrete Roof Tile Manufacturing	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 973 Pl 5721 E 72nd Ave	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility C.O Asphalt Services, LLC - Recycle Plant Seel Storage Systems, Inc. Forterra Pipel Precast Airgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Alluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel	4301 Forest St 8100 E 96th Ave 9152 Yosemite St 8330 Yosemite St 8330 Yosemite St 8330 Yosemite St 9152 Yosemite St 9307 E 50th Ave 9152 Yosemite St 9309 Cook St 4300 East 88th Ave 5790 Holly St 4300 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Willow Ct	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03 0.03
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Plashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finshing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterra Pipe/Precast Alargas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc.	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 9830 Yosemite St 94300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 9461 Willow Ct 4545 E 52nd Ave	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.007 0.05 0.04 0.03 0.03 0.03
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Fortera PipelPrecast Augus Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed	4301 Forest St 8100 E 95ch Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 9152 Yosemite St 9300 Cook St 4300 E 55ch Ave 5720 Holly St 3400 E 56ch Ave 6301 Dexter St 9405 Alton Cc 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Williow Ct 4545 E 52nd Ave	0.14 0.14 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.00 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.02
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant  Blashfill Services, LLC - Denver Yard  U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility  CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterar PipelPrecast Alrgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC  U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC Caterpillar, Inc.	Food and Kindred Products Other Industrial Services Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Pantis Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Boody Repair and Refinishing Manufacture of Animal Feed Machine Parts Distribution Warehouse	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 575 E 50th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 7755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Willow Ct 4545 E 52nd Ave 6151 Brighton Blvd 4705 E 48th Ave	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.02 0.02
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant  Blashfill Services, LLC - Denver Yard  U.S. Postal Service - Denver Bulk Mail Center Alsco  City of Thornton - East Gravel Lakes  Good Paint, LLC - Metal Finishing Facility  CO Asphalt Services, LLC - Recycle Plant  Steel Storage Systems, Inc.  Forterra PipePrecast  Airgas Intermountain, Inc.  Denver Pex Cemetery  Boral Roofing, LLC  U.E. Compression - Henderson Facility  Universal Fleec RV And Auto Collision Inc.  Purina Animal Nutrition, LLC  Caterpillar, Inc.  Brannan Sand and Gravel - Port Screen	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed Machine Parts Distribution Warehouse JCI GT30SS S X 20 Portable Screen	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 9755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 4300 Destr 88th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 10121 Dallas St 9461 Willow Ct 4545 E 3704 Ave 6151 E 9704 Ave 61705 E 48th Ave 6271 Colorado Blvd	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.02 0.02 0.01
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Plashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterra Pipel Precast Airgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC Caterpillar, Inc.	Food and Kindred Products Other Industrial Services Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Adminium Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed Maschine Parts Distribution Warehouse JCI GT205S S X 20 Portable Screen Caulk and Wood Stain Manufacturing	4301 Forest St 8100 E 95ch Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 9300 East 88th Ave 5720 Holly St 4300 East 88th Ave 5720 Holly St 4300 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Willow Ct 4545 E 52nd Ave 6151 Brighton Blvd 4705 E 48th Ave 7271 Colorado Blvd 10300 E 107th Pl	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.03 0.02 0.02 0.01 0.01
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Hashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Seel Storage Systems, Inc. Forterra PipelPrecast Airgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC Caterpillar, Inc. Brannan Sand and Gravel - Port Screen	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed Machine Parts Distribution Warehouse [CI GT30SS S X 20 Portable Screen Caulk and Wood Stain Manufacturing Portable Crusher/Screen	4301 Forest St 8100 E 96th Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 9755 E 56th Ave 5090 Cook St 4300 East 88th Ave 5720 Holly St 4300 Destr 88th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 10121 Dallas St 9461 Willow Ct 4545 E 3704 Ave 6151 E 9704 Ave 61705 E 48th Ave 6271 Colorado Blvd	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.03 0.02 0.02 0.01 0.01
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Ward U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterra Pipel Precast Airgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC Caterpillar, Inc. Brannan Sand and Gravel - Port Screen Sashco, Inc.	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Adminium Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed Maschine Parts Distribution Warehouse JCI GT205S S X 20 Portable Screen Caulk and Wood Stain Manufacturing	4301 Forest St 8100 E 95ch Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 9300 East 88th Ave 5720 Holly St 4300 East 88th Ave 5720 Holly St 4300 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Willow Ct 4545 E 52nd Ave 6151 Brighton Blvd 4705 E 48th Ave 7271 Colorado Blvd 10300 E 107th Pl	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.02 0.02 0.01 0.01
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Flashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Fortera Pipe/Precast Alagas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC Caterpillar, Inc. Brannan Sand and Gravel - Port Screen Sasho, Inc. CAT Construction Company	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed Machine Parts Distribution Warehouse [CI GT30SS S X 20 Portable Screen Caulk and Wood Stain Manufacturing Portable Crusher/Screen	4301 Forest St 8100 E 95ch Ave 4310 E 60th Ave 5075 E 50th Ave 9152 Yosemite St 8830 Yosemite St 8830 Yosemite St 8830 Yosemite St 4300 East 88th Ave 5720 Holly St 3400 E 56ch Ave 6300 E 56ch Ave 6301 E 72nd Ave 10121 Dallas St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Williow Ct 4545 E 52nd Ave 6151 Brighton Blvd 4705 E 48th Ave 7271 Colorado Blvd 10300 E 107th Pl 6950 York St	0.14 0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.002 0.01 0.01
BKEP Materials - Denver C & K Chemtrade Holdco U.S Chemtrade Solutions Birko Corp - Chemical Blending Plant Plashfill Services, LLC - Denver Yard U.S. Postal Service - Denver Bulk Mail Center Alsco City of Thornton - East Gravel Lakes Good Paint, LLC - Metal Finishing Facility CO Asphalt Services, LLC - Recycle Plant Steel Storage Systems, Inc. Forterar Pipel'Precast Alrgas Intermountain, Inc. Denver Pet Cemetery Boral Roofing, LLC U.E. Compression - Henderson Facility Universal Fleet RV And Auto Collision Inc. Purina Animal Nutrition, LLC Caterpillar, Inc. Brannan Sand and Gravel - Port Screen Sashco, Inc. CAT Construction Company Boral Resources - Irondale Terminal	Food and Kindred Products Other Industrial Services	Milk Plant Rebar Coating & Fabrication Liquid Asphalt Blending, Storage, and Distribution Aluminum Sulfate Solution Production Facility Blending of Chemical Mixtures Fly Ash Storage Silos USPS Parcel Processing Facility Industrial Laundry East Gravel Lakes Pump Station #4 Powder Coating and Paint Spray Operations - Metal Finishing Recycle Plant Site Paint Booth Concrete Batch Plant Paint Spray Operations Pet Crematory Concrete Roof Tile Manufacturing Coating and Blasting of Structural Steel Automotive Body Repair and Refinishing Manufacture of Animal Feed Machine Parts Distribution Warehouse JCI GT2055 S X 20 Portable Screen Caulk and Wood Stain Manufacturing Portable Cruther/Screen Portland Cement / Fly Ash Transfer Terminal	4301 Forest St 8100 E 95ch Ave 4310 E 60th Ave 5755 E 50th Ave 9152 Yosemite St 8830 Yosemite St 87755 E 56th Ave 5700 Cook St 4300 East 88th Ave 5720 Holly St 3400 E 56th Ave 6301 Dexter St 9405 Alton Ct 8775 E 93rd Pl 5721 E 72nd Ave 10121 Dallas St 9461 Willow Ct 44545 E 52nd Ave 6151 Brighton Blvd 4705 E 48th Ave 7271 Colorado Blvd 13030 E 107th Pl 6950 York St Yosemite St at E 88th Ave	0.14 0.12 0.12 0.12 0.12 0.11 0.10 0.09 0.09 0.09 0.08 0.08 0.07 0.05 0.04 0.03 0.03 0.03 0.03 0.02 0.02 0.01 0.01 0.01

Source: CDPHE APCD 2021

Notes:

1. List organized from highest to lowest estimated actual annual PM<sub>2.2</sub> emissions.



# Appendix G. Total Hazardous Air Pollutants (HAPs) Emissions Summary

#### Total Hazardous Air Pollutants (HAPs) Emissions Summary

Facility Name	Source Type	Source Description	Source Location	Facility Emissions Estimate (tons/yr)
Allied Waste Systems - Tower Landfill	Electric Gas and Sanitary Services	Landfill	8480 Tower Rd	30.12
Suncor Energy - Denver Refinery	Petroleum Refining and Related Industries	Petroleum Refining	5801 Brighton Blvd	19.74
Public Service Co Cherokee Plant	Electric Gas and Sanitary Services	Electrical Generation	6198 Franklin St	19.38
U.E. Compression - Henderson Facility	Other Industrial Services	Coating And Blasting Of Structural Steel	9461 Willow Ct	9.20
E Painting & Fiberglass, Inc.	Other Industrial Services	Manufacturing Of Fiberglass Parts	10201 E 107th PI	6.58
Phillips 66 Pipeline - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Storage/Distribution Terminal	3960 E 56th Ave	5.72
Nustar Logistics, LP - Denver Terminal	Oil and Gas Extraction and Related Services	Petroleum Products Distribution Terminal	3601 E 56th Ave	3.94
Good Paint, LLC - Metal Finishing Facility	Other Industrial Services	Heavy Equipment Surface Coating	4404 E 60th Ave	3.21
Birko Corp - Chemical Blending Plant	Other Industrial Services	Blending Of Chemical Mixtures	9152 Yosemite St	2.43
Master Builders Solutions - Brighton Facility	Other Industrial Services	Sealant/Adhesive Manufacture	10601 Fulton St	2.40
Brannan Sand & Gravel	Petroleum Refining and Related Industries	Hot Mix Asphalt Plant	7271 Colorado Blvd	2.14
Metro Wastewater Reclamation Dist/Trigen	Electric Gas and Sanitary Services	Sewage Systems	6450 York St	1.83
Acme Manufacturing - Zinc Plating Facility	Other Industrial Services	Zinc Plating Line For Metal Parts Manufacturing	4650 Leyden St	1.75
Magellan Pipeline Co Dupont Terminal	Oil and Gas Extraction and Related Services	Petroleum Bulk Terminal	8160 Krameria St	1.44
PSC Industrial - Portable Vapor Combustor	Oil and Gas Extraction and Related Services	Portable Vapor Combustor	6511 Colorado Blvd #2	1.31
Cintas Corporation No. 2	Other Industrial Services	Industrial Laundry	5100 Race Ct	1.23
Crystal Packaging	Petroleum Refining and Related Industries	Blending Of Lubricants And Glycol (For Deicers)	9155 Boston St	1.22
Sinclair - Denver Products Terminal	Oil and Gas Extraction and Related Services	Petroleum Terminal	8581 E 96th Ave	1.21
Heritage Window Restoration	Other Industrial Services	Millwork / Wood Finishing	5800 E 58th Ave., Unit K	0.99
Aggregate Industries - Dahlia HMA	Petroleum Refining and Related Industries	Asphalt Batch Plant	4801 E 78th Ave	0.94
Sashco, Inc.	Other Industrial Services	Caulk And Wood Stain Manufacturing	10300 E 107th Pl	0.91
Univar - Chemical Distribution	Other Industrial Services	Chemical Distribution	4300 Holly St	0.89
City & County of Denver - Roslyn	Other Industrial Services	Maintenance Complex	5440 Roslyn St	0.80
Eaton Metal Products Co.	Other Industrial Services	Manufacture of Metal Plate Products	4800 York St	0.76
Joaquin Manufacturing Co.	Other Industrial Services	Manufacture of Fiberglass Structures (Buildings)	6900 Elm St	0.65
Denver Truck & Trailer	Other Industrial Services	Automotive - Top, Body, and Upholstery Repair Shops and Paint Shops	5280 Newport St	0.63
Good Paint, LLC - Metal Finishing Facility	Other Industrial Services	Powder Coating And Paint Spray Operations - Metal Finishing	5720 Holly St	0.58
King Soopers, Inc Fuel Center #92	Other Industrial Services	Retail Fuel Station	6175 Parkway Dr	0.43
Ardent Mills - Commerce City Mill	Food and Kindred Products	Animal Feed And Flour Mill	4545 E 64th Ave	0.40
Good Paint, LLC	Other Industrial Services	Metal Parts Coating	6292 Colorado Blvd	0.39
Colorado Asphalt Services	Petroleum Refining and Related Industries	Asphalt Paving	3700 E 56th Ave	0.34
Jenco Industries - DBA Maaco Auto No 707	Other Industrial Services	Automotive Body Repair And Refinishing	4910 Oneida St	0.26
Central Body & Truck Repair Sawaya Body	Other Industrial Services	Auto Body Repair Shop	5300 Monroe St	0.18
Merritt Trailers - Henderson Facility	Other Industrial Services	Manufacturing Truck/Trailer Accessories	9339 Brighton Rd	0.15
N.A. Galvanizing Co	Other Industrial Services	Hot Dip Galvanizing	4400 E 61st Ave	0.13
Riggi Oil Co., Inc.	Oil and Gas Extraction and Related Services	Bulk Storage Facility	6795 Brighton Blvd	0.05
Dillon COS - King Soopers Fuel Fac #114	Other Industrial Services	Gasoline Refueling Station	15041 E 104th Ave	0.01
7-Eleven, Inc Store 37570	Other Industrial Services	Convenience Store With Fuel Dispensing	8836 E. 96th Ave	0.01
7-Eleven, Inc Store 36464	Other Industrial Services	Fuel Dispensing Station	8111 Tower Road	0.004
7-Eleven, Inc Store 37291	Other Industrial Services	Convenience Store And Gasoline Station	12241 East 104th Ave	0.003
7-Eleven, Inc Store 38351	Other Industrial Services	Service Station	15200 E 120th Ave	0.003
United Parcel Service	Other Industrial Services	Retail Gasoline Station	5020 Ivy St	0.001
Shoco Oil, Inc.	Other Industrial Services	Gas & Diesel Service Station	5135 E 74th Ave	0.0006

Source: CDPHE APCD 2021

TOTAL 124

Notes:

1. List organized from highest to lowest estimated actual annual Total HAPs emissions. Total HAPs categorized in the emissions data include acetaldehyde, benzene, ethylbenzene, formaldehyde, n-hexane, toluene, and xylenes.