Appendix B Air Quality

Introduction

Impacts of the proposed Project on air quality and criteria pollutant emissions from construction and operations were assessed and quantified using standard and accepted software tools, techniques, and emission factors. The primary assumptions and methods used to quantify emissions and estimate potential impacts in the EIR are discussed below.

Construction

Criteria Pollutant Emissions

Construction of the proposed Project would generate emissions of ROG, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$ that would result in short-term impacts on ambient air quality in the study area. It is expected that construction would occur between three calendar years at the Coast and Niles Subdivisions. Emissions would originate from off-road equipment exhaust, employee and haul truck vehicle exhaust (on-road vehicles), locomotive exhaust, site grading and earth movement, and paving. These emissions would be temporary (i.e., limited to the construction period) and would cease when construction activities are complete.

Emissions estimates for construction of the proposed Project were based on engineering inputs. Total emissions from construction of the proposed Project are presented at the average daily time scale and is compared with BAAQMD construction thresholds. The assumptions used to calculate each source of emissions can be found in Air Quality Analysis Data.

- **Off-Road Equipment**: Emission factors for off-road construction equipment (e.g., loaders, graders, bulldozers) were obtained from the CalEEMod (version 2022.1) User's Guide appendix, which provides values per unit of activity (in grams per horsepower-hour) by calendar year (ICF 2022). Criteria pollutants were estimated by multiplying the CalEEMod emission factors by the equipment inventory provided by the proposed Project engineer (Berger pers. comm.; Abi-Hanna pers. comm.).

- **On-Road Vehicles:** On-road vehicles (e.g., pickup trucks, flatbed trucks) would be required for material and equipment hauling, onsite crew and material movement, and employee commuting. Exhaust emissions from on-road vehicles were estimated using the EMFAC2021 emissions model and activity data provided by the proposed Project engineers (Berger pers. comm.; Abi-Hanna pers. comm.). Emission factors for haul, concrete, and water trucks are based on aggregated-speed emission rates for EMFAC's "MHDT" and "HHDT" vehicle categories. Factors for employee commute vehicles are based on a weighted average for all vehicle speeds for EMFAC's "LDA", "LDT1", and "LDT2" vehicle categories.[1] Fugitive re-entrained road dust emissions were estimated using U.S.

[1] These categories represent light-duty autos, and two different sizes of light-duty trucks.

EPA's Compilation of Air Pollutant Emission Factors (AP-42), Sections 13.2.1 and 13.2.2 (U.S. Environmental Protection Agency 2011).

- **Locomotives:** Emissions from diesel-powered locomotives used to transport rail materials were quantified using the U.S. EPA's locomotive engine emission standards (U.S. Environmental Protection Agency 2009) and activity data provided by the proposed Project engineer (Berger pers. comm.; Abi-Hanna pers. comm.). The load factors for the locomotives were calculated using the duty cycle[2] weighting factors defined by the EPA used to calculate cycle-weighted average emission rates. These duty cycle weighting factors represent the time spent in each mode (i.e. throttle notches 1-8, idle, and dynamic brake) (California Air Resources Board 2016b). The duty cycle weighting factors for line haul locomotives were used to calculate the load factor for locomotives hauling ballast to and from the site (i.e. off-site locomotives), while the factors for switch locomotives were used to calculate the load factor for locomotives operating on-site and within the proposed Project alignment[3]. The approximate horsepower values for each mode of operation were estimated using power values by notch setting from EPA's *Locomotive Emission Standards Regulatory Support Document* (U.S. Environmental Protection Agency 1998). All locomotives were assumed to utilize a 4,400 horsepower, Tier 3 engine for the unmitigated scenario.

- **Site Grading and Earth Movement:** Fugitive dust emissions from earth movement (i.e., site grading, bulldozing, and truck loading) were quantified using emission factors from CalEEMod (ICF 2022). The quantities of cut-and-fill material were provided by the proposed Project engineer (Berger pers. comm.; Abi-Hanna pers. comm.).

- **Paving:** Fugitive ROG emissions associated with paving were calculated using data (e.g., square feet paved) provided by the proposed Project engineer and the CalEEMod default emission factor of 2.62 pounds of ROG per acre paved (Berger pers. comm.; Abi-Hanna pers. comm.; ICF 2022).

Toxic Air Contaminants

A health risk assessment (HRA) was prepared to quantify the levels of exposure from emissions of TACs from proposed Project construction at the nearby sensitive receptors. The HRA methods are described below. Additionally, the corresponding emission inventory used for the HRA, modeling parameters, figures, and results are shown in Attachment B.

[2] A load factor is a value that characterizes the average horsepower an engine uses, as a percentage of the maximum horsepower. A duty cycle is a term that describes the overall operating characteristics of a locomotive. In general, locomotives have disparate power levels, or throttle notch settings, that are used for engaging in various operational settings. The duty cycle for a locomotive traveling long distances is different from the duty cycle of a locomotive conducting operations within a rail yard.

[3] Line-haul locomotives are those that typically operate for longer distances, while switch locomotives are those that typically engage in operations over short distances, such as within a railyard.

Construction Health Risk Assessment

Construction of the proposed Project would emit DPM emissions (i.e. exhaust PM10), a TAC, from diesel-powered off-road equipment, locomotives, and haul trucks. Exposure to construction related DPM was assessed by calculating the health risks in terms of excess cancer and non-cancer hazard impacts. In addition, construction of the proposed Project would emit $PM_{2.5}$ exhaust and fugitive dust emissions. Health risks from construction emissions were assessed for a worst-case scenarios, which was assumed to occur at the Ardenwood Station at the Coast Subdivision. This location include the presence of downwind sensitive receptors that are in close proximity or immediately adjacent to the construction footprint.

The HRA uses the U.S. EPA's most recent air dispersion model, American Meteorological Society/EPA Regulatory Model AERMOD (version 21112); cancer and chronic risk assessment values for DPM provided by the Office of Environmental Health Hazard Assessment (OEHHA); and other assumptions for model inputs recommended in BAAQMD's 2022 CEQA Guidelines, Appendix E: *Recommended Methods for Screening and Modeling Local Risks and Hazards* (Bay Area Air Quality Management District 2023). The HRA applies the most recent guidance and calculation methods from OEHHA's *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments* (Office of Environmental Health Hazard Assessment 2015). The HRA consists of three parts: an emissions inventory, air dispersion modeling, and risk calculations. A description of each of these is discussed below.

Dispersion Modeling

Air dispersion modeling for the construction HRA was used to estimate concentrations of criteria pollutants and DPM at sensitive receptor locations. Construction activities for each segment used AERMOD. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources and is suitable for assessing both elevated point sources and low-level emissions sources.[4] AERMOD is the U.S. EPA's regulatory dispersion model specified in the EPA Guideline for Air Quality Methods (Code of Federal Regulations, Title 40, Part 51, Appendix W) (U.S. Environmental Protection Agency 2017). AERMOD requires a variety of input parameters to model a comprehensive analysis, and these include:

- Emission Source Characterization
- Meteorological Data
- Temporal Distributions
- Terrain and Dispersion Coefficients
- Receptor Location Data

Emission Source Characterization

The emissions inventory includes DPM and $PM_{2.5}$ emissions from the proposed construction of the proposed Project. During construction, off-road equipment, on-road travel by heavy-duty trucks, and locomotives delivering materials would generate DPM emissions. The construction PM inventory consists of DPM emissions from equipment, locomotives, and vehicles, and fugitive dust emissions from on-site soil movement and on-road travel by heavy-duty trucks and workers' vehicles.

[4] Steady-state means that the model assumes no variability in meteorological parameters over a 1-hour time period.

On-site construction emissions from off-road equipment were characterized as a polygon area source that outlined the footprint of proposed construction area for the proposed Project. The release height represents the height above the ground at which pollutants are emitted. A release height of 5.0 meters was used to represent exhaust emissions, and a release height of zero meters above the ground was used to represent on-site fugitive dust emissions (South Coast Air Quality Management District 2008, Sacramento Metropolitan Air Quality Management District 2013). Emissions from on-road vehicle travel from haul and vendor trucks for the DPM and $PM_{2.5}$ analysis were characterized as line volume sources[5] with release heights 3.4 meters for exhaust emissions. Emissions from on-road vehicle travel from workers for the $PM_{2.5}$ analysis were characterized as line volume sources with release heights of 1.3 meters for exhaust emissions (Bay Area Air Quality Management District 2023).

To account for the plume rise associated with mechanically generated air turbulence from construction emissions, the initial vertical dimension of the area source was modeled at 2.15 meters for exhaust and 1.0 meter for dust. For the line volume sources, the initial vertical dimensions were 3.16 meters for haul/vendor trucks and 1.21 meters for worker vehicles. Plume rise is the height that pollutants rise above a release height. For exhaust, plume rise occurs because of the temperature of the exhaust gas. Exhaust gas temperatures can be high, which causes the plume to rise. For dust, plume rise accounts for the mechanical entrainment of dust in the wheels of equipment and trucks. Emissions from off-road equipment were assumed to be generated throughout the construction footprint. Emissions from off-site trucks were modeled along the road segments adjacent to the construction footprint. Table 1 summarizes the source parameters used in the construction HRA. Figures highlighting the construction footprint modeled in the HRA can be seen in Attachment B.

[5] Line volume sources represent a series of individual volumes sources that are adjacent to each other.

Table 1 Construction Source Parameters

AERMOD Source Name	AERMOD Source Type[1,2]	Release height[3] (meters)	Initial Vertical Dimension[3] (meters)	Emission rate (grams/second)
Ardenwood Station/Coast Subdivision Construction Area[4]				
ARDEN_EX	Polygon Area – Exhaust Emission	5.0	2.15	1.0
COAST_EX	Polygon Area – Exhaust Emission	5.0	2.15	1.0
ARDN_DST	Polygon Area- Dust Emissions	0	1.0	1.0
COAST_DST	Polygon Area- Dust Emissions	0	1.0	1.0
ONRD_T	Line Volume – Truck Exhaust/Dust Emissions	3.4	3.2	1.0
ONRD_W	Line volume – Worker Exhaust/Dust Emissions	1.3	1.2	1.0

Notes:

1. The emissions sources are defined as follows:

Volume sources are a three-dimensional source of diffuse air pollutant emissions comprised of an area of emissions released at a height above ground.

Area source: Area sources are used to model releases that occur over an area.

2. Emission sources encompassed the footprint of where construction activities would occur.

3. Release height and initial lateral dimension values were consistent with industry practice and recommendations from the Bay Area Air Quality Management District (BAAQMD), South Coast Air Quality Management District (SCAQMD) and the Sacramento Metropolitan Air Quality Management District (SMAQMD).

Emission Rates

For the construction HRA, all sources used a unitized emission rate approach to estimate actual concentrations. To reduce the number of modeling runs required, each source was modeled with a unitized emission rate of one gram per second (1 g/s). Model outputs were a dispersion factor with units of concentration per unit emissions ([µg/m^3]/[grams/second]). Following this approach, annual average ground-level concentrations were calculated by multiplying the dispersion factor ([µg/m^3]/[g/s]) by an annual average emission rate. This annual average emission rate was calculated based on the construction emissions at Alameda Creek, and near the proposed Ardenwood station.[6] Consistent with BAAQMD Guidance, the PERIOD averaging time was used to estimate annual average Ground Level Concentrations (GLCs) of sensitive receptors at a height of 1.5 meters (Bay Area Air Quality Management District 2023).

Meteorological Data

To run AERMOD, the following hourly surface meteorological data are required: wind speed, wind direction, ambient temperature, and opaque cloud cover. In addition, the daily morning upper air sounding data are required.

These meteorological variables are used to estimate air dispersion of pollutants in the atmosphere. Wind speed determines how rapidly pollutants are transported away from the source, while wind

[6] The proposed Project would impact the Coast subdivision and Ardenwood Station.

direction determines where pollutants are transported. The difference in ambient temperature and the exhaust temperature determines the initial buoyancy of emissions from point sources. The opaque cloud cover, upper air sounding data and surface roughness, Bowen ratio (ratio of sensible to latent heat flux) and albedo (reflectiveness of the earth's surface back to space without absorption) are all used in determining other dispersion parameters using similarity theory to develop profiles of the boundary layer parameters and determine the rate of turbulent mixing. These parameters include atmospheric stability (a measure of atmospheric turbulence that determines the rate at which pollutants are mixed laterally and vertically), the aloft vertical temperature gradient, the convective and mechanical boundary layer height (the vertical depth through which pollutants may be dispersed).

Meteorological data from the nearest BAAQMD monitoring site to the modeling locations, the Hayward Executive Airport (KHWD), were used for these HRAs (Bay Area Air Quality Management District 2022a). This meteorological dataset spanned from 2013 to 2017.

Temporal Distributions

Meteorological conditions can affect how pollutants are dispersed based on atmospheric stability. Unstable conditions occur during the day when there is solar heating of the surface and air near the surface, which allows air to move freely up and down. Stable conditions begin at sunset and occur throughout the night and early morning hours prior to sunrise. During stable conditions, the surface cools due to the release of radiative heat to the atmosphere and conditions can be stagnant resulting results in less movement of air. Unstable conditions increase air dispersion for sources operating during daytime hours and typically results in lower pollutant concentrations compared to sources operating during nighttime hours.

The modeling of emissions from construction activities was based on typical construction hours and number of days (8 hours per day, 5 days per week).

Terrain and Dispersion Coefficients

The dispersion modeling analysis also included terrain data to accurately assess impacts in three dimensions. The terrain data used for the analysis consisted of the United States Geological Survey's (USGS) Digital Elevation Models (DEM) data that was downloaded in AERMOD for each segment. The urban dispersion coefficient was selected in AERMOD based on the urban location setting. The urban dispersion coefficient accounts for the effect of increased nighttime surface heating. The urban heat island enhances the turbulence above that found in a rural stable boundary layer. This effect is dependent on a number of factors but has been parameterized in AERMOD as a function of urban population and the surface friction velocity. Population data is required when using the urban dispersion coefficient. The proposed Project segments that were analyzed are located in Alameda County, thus, the Alameda County population estimate of approximately 1,628,997 residents was used for the urban dispersion coefficient (United States Census Bureau 2022).

Modeling Domain and Receptor Network

The urban dispersion option was used in the analysis because of the proposed Project site's characteristics, and because surrounding areas are developed with buildings and paved surfaces that can influence how pollutants are dispersed in the area. Off-site sensitive receptors were modeled in AERMOD at individual residential properties, worker sites, recreational uses, or school

sites in all directions within 1,000 feet or more of the proposed Project site using a 10- by-10-meter receptor grid.[7] Receptors were given a height of 1.5 meters to represent the average human breathing zone, consistent with BAAQMD guidance (Bay Area Air Quality Management District 2023).

Health Risk Calculations

The health risk calculations were conducted in accordance with guidance from the BAAQMD 2022 CEQA Guidelines Appendix E and OEHHA's Air Toxics Hot Spots Program Guidance Manual for the Preparation of Risk Assessments (Bay Area Air Quality Management District 2023, Office of Environmental Health Hazard Assessment 2015). The OEHHA Guidelines were revised in 2015 to incorporate age sensitivity factors, which account for increased sensitivity to carcinogens during early-in-life exposure. Health risks were estimated using calculations conducted within spreadsheets that incorporate methodologies and parameters consistent with the OEHHA Guidelines. Estimating health risk has three components: 1) Exposure Assessment, 2) Dose-Response Assessment, and 3) Risk Characterization. Each of these components is described in further detail below.

Exposure Assessment

Exposure Pathways

Exposure to TACs can occur through various exposure pathways, which include inhalation and non-inhalation pathways (e.g., soil ingestion, mother's milk ingestion, homegrown produce ingestion). OEHHA has developed a cancer potency factor for DPM via the inhalation pathway only.

Exposure Scenario

Construction-related health risk impacts for each segment were evaluated for off-site residential receptors, school receptors, worker receptors, and recreational receptors. The exposure duration of each segment was based on the construction schedule for each segment's construction components. Table 2 provides the exposure durations for each segment. The specific exposure parameters for the four different sensitive receptor groups can be found in Attachment B.

Dose-Response Assessment

Dose-response assessment is the process of characterizing the relationship between exposure to an agent (i.e., DPM) and incidence of an adverse health effect in exposed populations (Office of Environmental Health Hazard Assessment 2015). When evaluating cancer risk, the dose-response relationship is expressed using a potency slope and can be referred to as a cancer potency factor (CPF). CPFs are used to assess the probability of risk of cancer associated with exposure to a carcinogen. CPFs represent the 95th percent upper confidence limit of the dose-response curve and are expressed as inverse dose in units of milligram per kilogram-body weight per day [mg/kg-day^{-1}]). According to the OEHHA Guidelines, "cancer risk is proportional to dose and there is no threshold for carcinogenesis", meaning there is no safe level of exposure to carcinogens, there is some increment in risk even at very low exposures. CARB and OEHHA have established a CPF for

[7] Unhoused populations that are not located within recreational areas were not quantitatively included in the modeling, because precise locations of unhoused populations are unknown at this time. Furthermore, unhoused populations are unlikely to be located within the rail alignment due to safety concerns and security purposes.

DPM which accounts for the individual TACs contained in diesel exhaust. The CPF for DPM is 1.1 (mg/kg-day^{-1}).

For evaluating health impacts related to non-carcinogens, reference exposure levels (RELs) were used. RELs are defined as the concentration (μm/m^3) at which no adverse noncancer health effects are anticipated for the specified exposure duration (Office of Environmental Health Hazard Assessment 2015). Contrary to carcinogens, RELs are based on factors to err of the side of public health to protect the most sensitive individuals in the population. Unlike carcinogens, noncancer TACs are assumed to have thresholds for adverse effects meaning adverse health effects would not occur until that TAC has reached or exceeded a certain concentration (i.e., threshold) and/or dose (Office of Environmental Health Hazard Assessment 2015).

Risk Characterization

Cancer Risk

Excess lifetime cancer risks are conservatively estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a result of exposure to potential human carcinogens. The estimated cancer risk is expressed as a unitless probability but can be contextualized as the estimated probability an individual has of developing cancer per one million people exposed. Further, the risk estimates generated by the analysis should not be interpreted as the expected rate of cancer in the exposed population, but rather as estimates of potential for cancer, based on current knowledge and assumptions.

As discussed previously, cancer risk estimates were based solely on exposure to DPM emissions through the inhalation pathway. Based on this, the Risk Management Policy (RMP) was used to evaluate cancer risk because inhalation was the only exposure pathway. The RMP approach conservatively uses the 95th percentile (high-end) breathing rates for the 3rd trimester and 0 to 2 age groups, and the 80th percentile breathing rates for all other age groups.

Cancer risk attributed to DPM is calculated by multiplying the chemical dose at the inhalation boundary (e.g., lungs) by the CPF. For cancer risk, the risk for each age group is calculated using the appropriate daily breathing rates, age sensitivity factors, and exposure duration. The cancer risks calculated for individual age groups are summed to estimate the cancer risk for each receptor. Table 2 provides the exposure parameters used to estimate cancer risk for residential receptors. Exposure parameters for other sensitive receptor groups can be viewed in Attachment B.

Table 2 Construction Resident Exposure Parameters

Parameter	Abbreviation	Age Group		
		3rd Trimester	0 to 2 years	2 to 16 years
Daily Breathing Rate (mg/kg-day)[1]	DBR	361	1,090	572
Inhalation Absorption Factor (unitless)	A	1.0	1.0	1.0
Exposure Frequency (unitless)[2]	EF	0.96	0.96	0.96
Conversion Factor (µg to mg, L to m^3)	CF	1.00×10^{-6}	1.00×10^{-6}	1.00×10^{-6}
Age Sensitive Factor (unitless)[3]	ASF	10	10	3
Exposure Duration (years)	ED	0.25	See Note 8	See Note 8
Averaging Time for Lifetime (years)[4]	AT	70.0	70.0	70.0
Fraction of Time at Home (unitless)[5]	FAH	1.0	1.0	1.0
Cancer Conversion Factor (unitless)[6]	CCF	1.00×10^{-6}	1.00×10^{-6}	1.00×10^{-6}
Cancer Potency Factor (mg/kg-day^{-1})	CPF[7]	1.1	1.1	1.1

Source: Office of Environmental Health Hazard Assessment 2015.

Notes:

[1] OEHHA Table 5.7, 95th percentile for 3rd Tri and 0<2, 80th percentile all other age groups.

[2] Based on 350 days per year.

[3] Office of Environmental Health Hazard Assessment 2015, Table 8.3.

[4] Averaging time is always 70 years.

[5] Assumed 1.0 for 3rd Trimester to 2 to 9 years in accordance with BAAQMD's 2022 CEQA Guidelines, Appendix E.

[6] Conversion factor used to convert cancer risk to chances per million.

[7] Office of Environmental Health Hazard Assessment 2015, Table 7.1.

[8]Proposed Project = 1.42 years.

Cancer Risk (Residential)

Equation 1: Dose (mg/kg/day) = CAIR × DBR × A × EF × CF where:

- CAIR = concentration in air (µg/m^3)
- DBR = daily breathing rate normalized to body weight (L/kg body weight-day)
- A = inhalation absorption factor (1 for DPM, unitless)
- EF = exposure frequency (unitless) (350 days/365 days)
- CF = 10^{-6}, correction factor, micrograms to milligrams conversion, liters to cubic meters conversion

Equation 2: RiskINH-RESIDENT (chances per million) = DoseAIR × CPF × ASF × ED/AT × FAH × CCF where:

- DoseAIR = daily inhalation dose (mg/kg/day)
- CPF = cancer potency factor (mg/kg-day^{-1})
- ASF = age sensitivity factor (unitless)
- ED = exposure duration (years)
- AT = averaging time for lifetime cancer risk (years)
- FAH = fraction of time spent at home (unitless)
- CCF = 10^6, cancer conversion factor to represent risk in chances per million

Chronic and Acute Risks

CARB and OEHHA have developed reference exposure levels (RELs) to determine potential noncancer health impacts. RELs have been developed for a number of TACs, exposure pathways, and exposure durations including acute (1-hour), 8-hour, and chronic (annual). When a health impact for a single pollutant is conducted, this is called the hazard quotient (HQ). Individual TACs can affect multiple organ systems (e.g., respiratory system, reproductive. etc.) and a HQ is calculated for each organ system. When multiple TACs are being evaluated, the sum of the HQs of all TACs emitted that impact the same target organ is termed the Hazard Index (HI). The HQ and HI are unitless and are estimated by dividing the pollutant concentration by the REL for the pollutant.

Consistent with BAAQMD's CEQA guidelines, the proposed Project would have a significant impact if it would increase the noncancer health risk such that the ratio of the chronic or acute exposure to the REL exceeds 1.0. OEEHA notes that exceeding the chronic or acute REL does not necessarily indicate an adverse impact would occur, but levels above the REL do increase the probability of developing an adverse health impact (Office of Environmental Health Hazard Assessment 2015).

The equations below were used to calculate the potential noncancer health impacts for chronic and acute exposure.

Chronic Risk

The potential for exposure to result in adverse chronic noncancer effects is evaluated by comparing the estimated annual average air concentration to the noncancer chronic REL. DPM is the only pollutant evaluated for chronic risks and DPM's REL is only associated with the inhalation pathway. The chronic REL for DPM is 5.0 μg/m^3.

Equation 3: HQ = CANN/CREL where:

- HQ = Hazard Quotient (unitless)
- CANN = Annual average concentration of DPM (μg/m^3)
- CREL = Chronic REL for DPM (μg/m^3)

Acute Risk

DPM does not have an acute REL, therefore acute impacts of DPM were not evaluated.

Operation

Criteria Pollutant Emissions

Displaced Vehicle Miles Traveled

Operation of the proposed Project would improve passenger rail service between Oakland and San Jose, which would result in a reduction in automobile vehicle usage and is quantified by year and scenario as part of this analysis. The VMT data were estimated using a regional travel demand model that covers the geographic extent of the Bay Area region.[8] Data has been provided for 2025 and 2040, and for two scenarios (No-Project Alternative, proposed Project). The VMT was separated into 5-mph speed groupings, or "speed bins". Criteria pollutant reductions achieved by displaced VMT were estimated using emission factors from EMFAC2021. Re-entrained road dust was calculated using the same methodology as for construction trips (refer to discussion of On-Road Vehicles under Construction, above). In 2025, the proposed Project would reduce VMT by approximately 38,000 miles per day relative to the No-Project Alternative, and, in 2040, the VMT reduced would be approximately 40,000 miles per day. Refer to Attachment A for more details regarding the calculations for quantifying emissions from displaced vehicle miles traveled.

Ardenwood Station Operational Emissions

The new Ardenwood Station would generate off-gassing and combustion emissions from the use of consumer products, architectural coatings, and landscaping equipment (i.e. area sources), and combustion emissions from the occasional use of a diesel-powered emergency generator (i.e. stationary sources).

The area and stationary source emissions at the Ardenwood Station were estimated in CalEEMod Version 2022.1 based on the estimated size of the station platform and parking garage. The CalEEMod model includes standard land use categories that can be used to represent a project (e.g. residential, commercial, industrial, parking, etc.), and these land use categories have corresponding emissions rates for consumer products, architectural coatings, and landscaping equipment. Although a train station is not a land use category option in CalEEMod, similar and representative land use categories can be used as proxies. For example, a train boarding platform is a flat, paved surface and can be represented by a land use category that also has those characteristics (i.e. a parking lot). As such, the station platform was modeled using the "parking lot" land use category, while the parking garage was modeled using the "enclosed parking with elevator" land use category.

Criteria pollutant emissions from the emergency generator were quantified based on the anticipated operating characteristics of the emergency generator at the station and emission factors from CalEEMod. The generator would require testing periodically to ensure that it is functioning properly and would also require operation during power outages. Thus, it was assumed that the generator would operate for 150 hours per year, based on the recommendation of BAAQMD, which accounts for both routine testing (50 hours) and emergency operations (100 hours) (Bay Area Air Quality Management District 2023).

On-road vehicle trips to and from the station would also result in emissions from vehicle exhaust pipes, because passengers would travel in their vehicles to and from the station to use the train.

[8] For more details on how VMT has been estimated, please refer to the memorandum, 3.18 *Transportation*.

These emissions are reflected in the changes in VMT resulting from proposed Project implementation, and the methods for calculating those emissions are presented above in *Displaced Vehicle Miles Traveled*.

It should also be noted that implementation of the proposed Project would result in two existing Capitol Corridor stations no longer being used for Capitol Corridor service. The Fremont station would continue to be serviced by ACE Rail, while the Hayward station would not have any rail service. The removal of service at these two stations may result in criteria pollutant emissions reductions; however, emissions reductions are likely to be minor, because train station operations are not major sources of emissions. Regardless, this analysis does not account for any potential reduction in emissions from the removal of Capitol Corridor service. The analysis is thus conservative, because it includes operational emissions from the new Ardenwood Station but does not exclude operational emissions from the two existing stations.

Carbon Monoxide Hot-Spots

BAAQMD's screening methodology for carbon monoxide impacts was used to determine whether traffic-related impacts due to implementation of the proposed Project are significant (see *Methods for Determining Significance under CEQA*).

Toxic Air Contaminants

Ardenwood Station Operational Emissions

As noted above, a 314-horsepower emergency generator with a Tier 4 engine would be present at the Ardenwood Station to be used in the event of power outages. The generator would use diesel fuel and thus result in emissions of DPM from fuel combustion. It was assumed that this emergency generator would run for a maximum of 150 hours per year, based on the recommendation of BAAQMD, which accounts for both routine testing (50 hours) and emergency operations (100 hours) (Bay Area Air Quality Management District 2023).The section above for criteria pollutant emissions describes the methods used to quantify the mass emissions associated with the generator, while the operational health risk assessment section describes the methods used to quantify the health effects resulting from the toxic air contaminants emitted by the generator.

Changes to Locomotive Emissions

As noted above, calculating the difference in emissions between the use of the Coast and Niles Subdivisions requires a level of precision with respect to the engine settings, speeds, and times that prevents an accurate quantification of the effect. However, for TACs, impacts are estimated by evaluating localized areas since TACs have a localized impact rather than a regional impact. Thus, although implementation of the proposed Project is anticipated to have a regional net benefit during operations due to the reduction of train miles traveled and passenger vehicle VMT, it would potentially have a localized impact for certain sensitive receptors.

Operational HRAs were conducted at the Shinn Street area and the Ardenwood station area to analyze the potential operational TAC impact for the nearby sensitive receptors that are located downwind from the proposed Project. The operational HRA is discussed in greater detail below and the modeling inputs can be found within Attachment B.

Operational Health Risk Assessment

An operational HRA was conducted to evaluate the impacts of DPM exposure and $PM_{2.5}$ emissions from emissions generated by the operations of the proposed Project. As discussed above, the operations of the proposed Project would not cause a regional increase in passenger or line-haul locomotive trips. The proposed Project would remove passenger train trips along the Niles subdivision but would increase the trips along the Coast subdivision, including idling emissions at the Ardenwood Station. These localized increases in trips and idling would expose nearby sensitive receptor groups located by the Ardenwood station and Coast subdivision to DPM emissions. Additionally, the Ardenwood station would cause DPM emissions from the emergency use and maintenance of a 314 horsepower Tier 4 emergency generator operating up to 150 hours per year. The source inputs and results can be viewed in Attachment B.

Emission Inventory

Similar to the construction HRA, proposed Project specific data were used to calculate annual DPM emissions from the different operational emission sources. These annual DPM emission inventories were quantified using the information provided by CCJPA and the BAAQMD's CEQA Guidelines Appendix: E (Bay Area Air Quality Management District 2023), *Toxic Air Contaminant Emissions Inventory and Dispersion Modeling Report for the Oakland Rail Yard* (Sierra Research 2007), *Emission Factors for Locomotives* (U.S. Environmental Protection Agency 2009), and the Bureau of Transportation Statistics Rail Profile (Bureau of Transportation 2022). Detailed annual emission inventories are discussed in Section 3.5.5.1 and in Attachment B.

Emission Source Characterization

Emissions sources were represented using line volume sources for the trains, point sources for locomotive idling and the emergency generator, and line volume sources for on-road vehicles. The source specific parameters are shown in Table 3 and in Attachment B.

Dispersion Modeling

Similar to the construction HRA, AERMOD version 21112 was used to estimate concentrations of DPM and $PM_{2.5}$ emissions at off-site residential, worker, school, and recreational uses.

Table 3 Operational HRA Source Parameters

AERMOD Source Name	Rail Subdivision	AERMOD Source Type[1,3]	Release Height/Plume Height (meters)[1,2]	Plume width (meters)[1]	Initial Vertical Dimension (meters)	Stack diameter (meters)[1,3]	Stack Exit Temperature (Kelvin)[1,3]	Stack Exit Flow Rate (meter/second)[1,3]
Ardenwood Station and Coast Subdivision								
C_PASS_D	Coast	Line Volume	**5.6**	22.0	3.78	-	-	-
Idle_East	Coast	Point Source	**4.6**	-	-	0.625	351	3.73
Idle_West	Coast	Point Source	**4.6**	-	-	0.625	351	3.73
EMGEN	Coast	Point Source	**1.5**	-	-	0.183	740	45.3
ONRD_W	Coast	Line Volume – Passenger Vehicles	**1.3**	36.0	1.21	-	-	-

Notes: Refer to Attachment B for more details.

1. Bay Area Air Quality Management District 2023.
2. Sierra Research 2007
3. Metrolink 2014

Meteorological Data

The same meteorological dataset as the construction HRA was used, which is data from the Hayward Executive Airport (KHWD)(Bay Area Air Quality Management District 2023). This meteorological dataset spanned from 2013 to 2017.

Temporal Distributions

The emergency generator would be operational whenever the Ardenwood station needs back-up power. The exact timing of generator maintenance and testing are unknown; thus, the emergency generator was modeled as potentially being operational anytime in a 24 hour period to capture nighttime operation, which typically results in higher concentrations.. The passenger train trips, idling emissions, and mobile vehicle trips were assumed to operate during the day (13 hours per day), 7 days a week[9]. These schedules were included as variable source emissions in AERMOD.

Terrain and Dispersion Coefficients

The Operational HRA used the same terrain and dispersion assumptions as the construction HRA, which is discussed above.

Modeling Domain and Receptor Network

The same sensitive receptor locations and grid spacing as the construction HRA were used for the operational HRA, which is discussed above.

Health Risk Calculations

Similar to the construction HRA, cancer risks and non-cancer risks were evaluated in the operational HRA. A 30-year exposure duration was adopted to evaluate the residential and recreational cancer risk. A 25-year exposure duration for worker receptors and a 12-year exposure duration for school receptors were used. These exposure duration scenarios are consistent with BAAQMD guidance. Since proposed Project operations is assumed to have steady annual emissions for prolonged exposure durations (i.e. 12 to 30 years) unlike construction, the CARB Hot spots Analysis & Report Program (HARP2) Air Dispersion Modeling and Risk Tool (ADMRT) was utilized. The CARB HARP2 ADMRT model allows users to:

- Calculate potential health impacts using GLC;
- Evaluate one or multiple pollutants for one or multiple receptor points;
- Calculate cancer and noncancer (acute, 8-hour, and chronic) health impacts using the risk assessment guidelines in the OEHHA Guidance Manual (Office of Environmental Health Hazard Assessment 2015);
- Use point estimates to calculate inhalation and multi-pathway risks;
- Performs stochastic health risk analyses.

Specific inputs and outputs pertaining to the operational health risk calculations can be viewed in Attachment B.

[9] The 13 hours per day assumption is based off the current CCJPA schedule.

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CCJPA Project Construction Health Risk Assessment Protocol

Purpose

Evaluate health impacts (cancer and chronic risk) to off-site residential receptors located near the project site from PM10 exhaust emissions from diesel-powered offroad equipment and diesel-powered trucks (DPM). Also evaluate the incremental increase in annual $PM_{2.5}$ from exhaust and fugitive dust emissions.

Analyses/Pollutants of Concern

- HRA (Cancer & Chronic Risk)/Diesel Particulate Matter (DPM) (modeled as PM_{10} exhaust)
- $PM_{2.5}$ Analysis/$PM_{2.5}$ (exhaust and dust)

Construction Emissions Sources

Unitized Emission Rate

For HRA and PM Analysis, all sources used a unitized emission rate approach to estimate actual concentrations. ***To reduce the number of modeling runs required, each source was modeled with a unit emission rate (1 g/s). Model output was a dispersion factor with units of concentration per unit emissions ([$\mu g/m^3$]/[g/s]). Following this approach, annual average concentrations resulted from multiplying the dispersion factor by an annual average emission rate (BAAQMD 2012)***.

- AERMOD output concentration [(ug/m^3)/(1g/s)] x Actual Emission rate (g/s) = Actual Concentration (ug/m^3)

Offroad Construction Equipment Emissions: Niles and Oakland Subdivision

Offroad equipment for construction was modeled in AERMOD as a polygon area source that encompassed the entire footprint of the project site. Exhaust emissions from offroad equipment were included in the HRA and $PM_{2.5}$ Analysis.

OFFROAD EQUIPMENT EXHAUST

AERMOD Source Name	Source Type:[1]	Release Height (m):[2]	Initial Vertical Dimension (m):[1]	Emission Rate (g/s):
ALTB_EX	Polygon Area	5.0	2.15	1.0
ALTC_EX	Polygon Area	5.0	2.15	1.0
ALTD_EX	Polygon Area	5.0	2.15	1.0

[1] BAAQMD. 2023. *Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards*. August. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?sc_lang=en.

[2] SMAQMD. 2013. *Dispersion modeling of Construction-Generated PM10 emissions*. July. Available: https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf.

Onsite Dust Emissions

Onsite dust emissions were modeled in AERMOD as a polygon area source that encompassed the entire footprint of the project site. Onsite dust emissions included fugitive dust emissions from bulldozing, grading, and truck loading. Onsite dust emissions were only included in the $PM_{2.5}$ Analysis.

ONSITE DUST

AERMOD Source Name	Source Type:[2]	Release Height (m):[2]	Initial Vertical Dimension (m):[2]	Emission Rate (g/s):
ALTB_DST	Polygon Area	0.0	1.0	1.0
ALTC_DST	Polygon Area	0.0	1.0	1.0
ALTD_DST	Polygon Area	0.0	1.0	1.0

[1] BAAQMD. 2023. *Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards*. August. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?sc_lang=en.

[2] SMAQMD. 2013. *Dispersion modeling of Construction-Generated PM10 emissions*. July. Available: https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf.

Onroad Exhaust and Dust Emissions

Onroad exhaust emissions were modeled as a line volume source with the parameters listed below. DPM exhaust emissions from vendor and haul trucks were included in the HRA. PM exhaust emissions from vendors and haul trucks were included in the DPM analysis. Dust emissions from workers, vendors, and haul trucks were included in the $PM_{2.5}$ analysis.

ONROAD EXHAUST and Dust

AERMOD Source Name	Source Type	Source Length (m)	Road Width (m)[1]	Plume Width (m)[2]	Plume Height (m)[2]	Vehicle Height (m)[3]	Initial Vertical Dimension (m)[3]	Release Height (m)[3]	Emission Rate (g/s)
ONRD_T	Line Volume	850	12	18	6.8	4.0	3.16	3.4	1.0
ONRD_W	Line Volume	850	12	18	2.6	1.53	1.21	1.3	1.0

[1] Road width measured using Google Earth.

[2] BAAQMD. 2023. *Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards*. August. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?sc_lang=en.

Offroad Construction Equipment Emissions: Coast Line

Offroad equipment for construction was modeled in AERMOD as a polygon area source that encompassed the entire footprint of the project site. Exhaust emissions from offroad equipment were included in the HRA and $PM_{2.5}$ Analysis.

OFFROAD EQUIPMENT

AERMOD Source Name[3]	Source Type:[1]	Release Height (m):[2]	Initial Vertical Dimension (m):[1]	Emission Rate (g/s):
ARDN_EX	Polygon Area	5.0	2.15	1.0
COAST_EX	Polygon Area	5.0	2.15	1.0

[1] BAAQMD. 2023. *Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards*. August. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?sc_lang=en.
[2] SMAQMD. 2013. *Dispersion modeling of Construction-Generated PM10 emissions*. July. Available: https://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf.[3] Alt E used the same Source names in a different AERMOD run.

Onsite Dust Emissions

Onsite dust emissions were modeled in AERMOD as a polygon area source that encompassed the entire footprint of the project site. Onsite dust emissions included fugitive dust emissions from bulldozing, grading, and truck loading. Onsite dust emissions were only included in the $PM_{2.5}$ Analysis.

ONSITE DUST

AERMOD Source Name[3]	Source Type:[2]	Release Height (m):[2]	Initial Vertical Dimension (m):[2]	Emission Rate (g/s):
ARDN_DST	Polygon Area	0.0	1.0	1.0
COAST_DST	Polygon Area	0.0	1.0	1.0

[1] Road width measured using Google Earth.
[2] BAAQMD. 2023. *Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards*. August. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?sc_lang=en.
[3] Alt E used the same Source names in a different run.

Onroad Exhaust Emissions

Onroad exhaust emissions were modeled as a line volume source with the parameters listed below. DPM exhaust emissions from vendor and haul trucks were included in the HRA. PM exhaust emissions from vendors and haul trucks were included in the DPM analysis. Dust emissions from workers, vendors, and haul trucks were included in the $PM_{2.5}$ analysis.

ONROAD EXHAUST and Dust

AERMOD Source Name	Source Type	Source Length (m)	Road Width (m)[1]	Plume Width (m)[2]	Plume Height (m)[2]	Vehicle Height (m)[3]	Initial Vertical Dimension (m)[3]	Release Height (m)[3]	Emission Rate (g/s)
ONRD_T	Line Volume	850	12	18	6.8	4.0	3.16	3.4	1.0
ONRD_W	Line Volume	850	12	18	2.6	1.53	1.21	1.3	1.0

[1] Road width measured using Google Earth.

[2] BAAQMD. 2023. *Appendix E: Recommended Methods for Screening and Modeling Local Risks and Hazards*. August. Available: https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?sc_lang=en.
[2] USEPA 2012
[3] BAAQMD 2023.

Additional Modeling Details

- Averaging Times:
  - PM10/DPM/PM2.5: PERIOD
- Receptor Height (BAAQMD 2023): 1.5 meters.
- Receptor Spacing (BAAQMD 2023): 10 meters.
  - *Guidance has rule of thumb of no larger than 25 meters out to 200 meters from project boundary. Our analysis uses tighter spacing at 10 meters, which would be consistent with guidance.*
- Met Data (CARB 2023): Hayward Airport (93228)
  - Met Years: January 1, 2013 to December 31, 2017.
  - Elevation: 13.1 meters.
- Variable Emission Rates: 7AM-3PM Monday – Friday (8 hours to be consistent with equipment usage hours)
- Alameda County Population (Census 2023): 1,628,997

Thresholds

Analysis Type	Cancer Risk (per million)	Chronic Hazard Index	Annual $PM_{2.5}$ (ug/m^3)
Project-level	10.0	1.0	0.3
Cumulative	100.0	10.0	0.8
Source: BAAQMD CEQA Guidelines, 2017.			

Health Risk Methodology

The different exposure factors and cancer risk calculations are shown below. These parameters and factors are based off the OEHHA 2015 guidelines. Since the proposed Project would have four different construction periods modeled for the three Build Alternatives and the Coast/Ardenwood station.

Residential

Exposure Factors by Age Bin- Construction

RESIDENTIAL - Diesel Particulate Matter

Parameter		Abbr.	3rd Tri	0<2	2<16	16<30
Daily Breathing Rate (mg/kg/day)[1]		DBR	361	1,090	745	--
Inhalation Absorption Factor (unitless)		A	1.0	1.0	1.0	--
Exposure Frequency (unitless)[2]		EF	0.96	0.96	0.96	--
Conversion Factor (ug to mg, L to m^3)		CF	1.00E-06	1.00E-06	1.00E-06	--
Age Sensitivity Factors (unitless)		ASF	10	10	3	--
Exposure Durations (years)		ED	**0.25**	**Note 3**	**Note 3**	--
Averaging Time for Lifetime (years)		AT	70	70	70	--
Fraction of Time at Home(unitless)		FAH	1.0	1.0	1.0	--
Cancer Conversion Factor (unitless)		CCF	1.00E+06	1.00E+06	1.00E+06	--
Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$	DPM	CPF	1.1	1.1	1.1	--

Source: OEEHA 2015
[1] 95th percentile DBR for 3rd Tri & 0<2, 80th percentile for other age groups
[2] Exposure frequency based on 350 days per year.
1.00E-6 = 0.000001
1.00E+6 = 1,000,000
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

School

Exposure Factors by Age Bin- Construction

School Receptors - Diesel Particulate Matter

Parameter	Abbr.	3rd Tri	0<2	2<16	16<30
Daily Breathing Rate (mg/kg/day)[1]	DBR			640	
Inhalation Absorption Factor (unitless)	A			1.0	
Exposure Frequency (unitless)[2]	EF			0.49	
Conversion Factor (ug to mg, L to m^3)	CF			1.00E-06	
Age Sensitivity Factor (unitless)	ASF			3.00	
Exposure Duration (years)	ED			**Note 3**	
Averaging Time for Lifetime (years)	AT			70	
Fraction of Time at Home (unitless)	FAH			1.0	
Worker Adjustment Factor (unitless)	WAF			4.2	
Cancer Conversion Factor (unitless)	CCF			1.00E+06	
Cancer Potency Factor $(mg/kg/day)^{-1}$	CPF			1.1	

Source: OEEHA 2015
1. Table 5.8, 95th percentile for 2<9 used for 2<16.
2. School exposure based on 180 days.
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

Worker

Exposure Factors by Age Bin- Construction

WORKER - Diesel Particulate Matter

Parameter	Abbr.	16<30
Daily Breathing Rate (mg/kg/day)	DBR	240
Inhalation Absorption Factor (unitless)	A	1
Exposure Frequency (unitless)	EF	0.68
Conversion Factor (ug to mg, L to m^3)	CF	1.00E-06
Age Sensitivity Factor (unitless)	ASF	1
Exposure Duration (years)	ED	**See Note 3**
Averaging Time for Lifetime (years)	AT	70
Fraction of Time at Home (unitless)	FAH	1
Worker Adjustment Factor (unitless)	WAF	4.2
Cancer Conversion Factor (unitless)	CCF	1.00E+06
Cancer Potency Factor $(mg/kg/day)^{-1}$	CPF	1.1

Source: OEEHA 2015
1. 95th percentile for 16<30, moderate intensity.
2. Based on 250 days/365 days per year
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

Recreational

Exposure Factors by Age Bin- Construction

RECREATION (PARK Receptors)

Parameter	Abbr.	3rd Tri	0<2	2<16	16<30
Daily Breathing Rate (mg/kg/day)[1]	DBR	361	1,200	745	335
Inhalation Absorption Factor (unitless)	A	1.0	1.0	1.0	1.0
Exposure Frequency (unitless)[2]	EF	0.96	0.96	0.96	0.96
Conversion Factor (ug to mg, L to m^3)	CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06
Age Sensitivity Factor (unitless)	ASF	10	10	3	1
Exposure Duration (years)	ED	0.25	2.00	0.16	0
Averaging Time for Lifetime (years)	AT	70.0	70	70	70
Fraction of Time at Home (unitless)	FAH	0.125	0.125	1.0	1.0
Worker Adjustment Factor (unitless)	WAF	4.2	4.2	4.2	4.2
Cancer Conversion Factor (unitless)	CCF	1.00E+06	1.00E+06	1.00E+06	1.00E+06
	CPF	1.1	1.1	1.1	1.1

Source: OEEHA 2015
1.95th percentile DBR for 3rd Tri & 0<2 (table 5.8); Table 5.7 95%.
2. Based on attending park 3 hours per day, 350 days
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

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https://www3.epa.gov/scram001/reports/Haul_Road_Workgroup-Final_Report_Package-20120302.pdf.

-Road width plus 6 meters to account for vehicle turbulence
-Plume height= Vehicle height x 1.7

AERMOD Setup

CCJPA - Coast Construction HRA - Alt E

AERMOD Setup

Legend

- Ardenwood Area Source - Alt E
- Construction Area Source - Alt E
- Line Volume Source
- Lucid Motors
- Newark Buffet
- Newark Junior High School
- Pacific Research Center
- Sensitive Receptors
- Site Domain Border

Ardenwood Blvd
Karl Nordvik Park
Ardenwood Historic Farm
84
880
Lakeshore Park
Safeway
Sprouts Farmers Market
Newark Blvd
Newark Buffet
Cedar Blvd
Jarvis Ave
Lucid Motors
Newark Junior High School
Google Earth
N
3000 ft

CCJPA - Coast Construction HRA

AERMOD Setup

Legend

- Ardenwood Area Source
- Construction Area Source
- Feature 2
- Line Volume Source
- Lucid Motors
- Newark Buffet
- Newark Junior High School
- Pacific Research Center
- Sensitive Receptors
- Site Domain Border

Ardenwood Blvd
Karl Nordvik Park
Ardenwood Historic Farm
84
Safeway
Lakeshore Park
Sprouts Farmers Market
Newark Blvd
Newark Buffet
Cedar Blvd
Jarvis Ave
Lucid Motors
880
N
3000 ft
Google Earth

CCJPA Project Operational Health Risk Assessment Protocol

Purpose

Evaluate health impacts (cancer and chronic risk) to off-site residential receptors located near the project site from locomotive diesel exhaust emissions and generator diesel exhaust emissions. Also evaluate the incremental increase in annual $PM_{2.5}$ from exhaust and fugitive dust emissions.

Analyses/Pollutants of Concern

- HRA (Cancer & Chronic Risk)/Diesel Particulate Matter (DPM) (modeled as PM_{10} exhaust)
- $PM_{2.5}$ Analysis/$PM_{2.5}$ (exhaust and dust)

Train Emissions Sources

Train Exhaust Emissions

Onroad exhaust emissions were modeled as a line volume source with the parameters listed below. DPM and $PM_{2.5}$ exhaust were included in the HRA and $PM_{2.5}$ analysis.

Rail Subdivision	Train Type	AERMOD Source Name	Source Type	Source Length (m)	Plume Width (m)[1,2]	Plume Height (m)[2]	Release Height (m)[1,3]	Initial vertical dimension (M)[1]	Emission Rate (g/s)
Niles Subdivision	CCJPA	N_PASS_D	Line volume	4,114.7	22	11.22	5.6	3.78	1
Coast Subdivision	CCJPA	C_PASS_D	Line volume	2,063.4	22	11.22	5.6	3.78	1

[1] BAAQMD 2023 – Table 12
[2] USEPA 2012.
[3] Sierra Research 2007.

Train Idling Emissions

Idling emissions at the proposed Ardenwood station were modeled as point sources with the parameters listed below. DPM and $PM_{2.5}$ exhaust were included in the HRA and $PM_{2.5}$ analysis.

Rail Subdivision	Train Type	AERMOD Source Name	Source Type	Release Height (m)[1,2,3]	Stack Diameter (m)[3]	Exit Velocity (m/s)[1]	Exhaust Temp (K)[1]	Emission Rate (g/s)
Coast Subdivision	CCJPA	Idle_East	Point Source	4.6	0.625	3.73	351	1
	CCJPA	Idle_West	Point Source	4.6	0.625	3.73	351	1

[1] Metrolink 2014
[2] BAAQMD 2003.
[3] Sierra Research 2007.

Onroad Exhaust Emissions

Onroad emissions were modeled as a line volume source with the parameters listed below. DPM exhaust emissions from passenger vehicles were included in the HRA. Dust emissions factors were based on USEPA

AP-42 methodology for paved roads. $PM_{2.5}$ dust emissions from future commuters were included in the $PM_{2.5}$ analysis.

ONROAD EXHAUST & DUST – Nontruck

AERMOD Source Name	Source Type	Source Length (m)	Road Width (m)[1]	Plume Width (m)[2]	Plume Height (m)[2]	Vehicle Height (m)[2]	Initial Vertical Dimension (m)[2]	Release Height (m)[2]	Emission Rate (g/s)
ONROAD	Line Volume	1,434.2	30.0	36.0	2.6	1.53	1.21	1.3	1.0

[1] Road width measured using Google Earth.
[2] BAAQMD 2003 – Table 11.

Emergency Generator Emissions

Exhaust emissions from emergency generators were modeled as point sources with the stack parameters listed below. DPM and $PM_{2.5}$ exhaust from generators were included in the HRA and $PM_{2.5}$ analysis.

Generators

AERMOD Source Name[1]	Source Type	Stack Height (m) [2]	Stack Width (m)[2]	Gas Exit Temp (C)[2]	Gas Exit Velocity (m/s)	Emission Rate (g/s)
EMGEN – Ardenwood Station	Point	3.66	0.183	467	45.3	1.0

[1] Information provided by applicant.
[2] BAAQMD 2023 – Table 10.

Additional Modeling Details

- Averaging Times:
  - HRA (PM10): Period
  - PM 2.5: PERIOD
- Receptor Height (BAAQMD 2023): 1.5 meters.
- Receptor Spacing (BAAQMD 2023): 10 meters; Receptor grid extends at least 1,000 feet from project boundary or train operations.
  - *Guidance has rule of thumb of no larger than 25 meters out to 200 meters from project boundary. Our analysis uses tighter spacing at 10 meters, which would be consistent with guidance.*
- Met Data (BAAQMD 2023b): Hayward Airport (93228)
  - Met Years: January 1, 2013 to December 31, 2017.
  - Elevation: 13.1
- Variable Emission Rates (Monday – Sunday):
  - During the Day: 13 hours, 6:00 to 19:00
- Alameda County Population (Census 2022): 1,628,997

Thresholds

Analysis Type	Cancer Risk (per million)	Chronic Hazard Index	Annual $PM_{2.5}$ (ug/m^3)

Project-level	10.0	1.0	0.3
Cumulative	100.0	10.0	0.8
Source: BAAQMD CEQA Guidelines, 2023.			

Health Risk Methodology

The different exposure factors and cancer risk calculations are shown below. These parameters and factors are based off the OEHHA 2015 guidelines. Since the proposed Project would have four different construction periods modeled for the three Build Alternatives and the Coast/Ardenwood station.

Residential

Exposure Factors by Age Bin- Construction

RESIDENTIAL - Diesel Particulate Matter

Parameter		Abbr.	3rd Tri	0<2	2<16	16<30
Daily Breathing Rate (mg/kg/day)[1]		DBR	361	1,090	745	335
Inhalation Absorption Factor (unitless)		A	1.0	1.0	1.0	1.0
Exposure Frequency (unitless)[2]		EF	0.96	0.96	0.96	0.96
Conversion Factor (ug to mg, L to m^3)		CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06
Age Sensitivity Factors (unitless)		ASF	10	10	3	3
Exposure Durations (years)		ED	**0.25**	**2.00**	**14.0**	**14.00**
Averaging Time for Lifetime (years)		AT	70	70	70	70
Fraction of Time at Home(unitless)		FAH	1	1	1	0.73
0Cancer Conversion Factor (unitless)		CCF	1.00E+06	1.00E+06	1.00E+06	1.00E+06
Cancer Potency Factor (mg/kg-day)$^{-1}$	DPM	CPF	1.1	1.1	1.1	1.1

Source: OEEHA 2015
[1] 95th percentile DBR for 3rd Tri & 0<2, 80th percentile for other age groups
[2] Exposure frequency based on 350 days per year.
1.00E-6 = 0.000001
1.00E+6 = 1,000,000
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

School

Exposure Factors by Age Bin- Construction

School Receptors - Diesel Particulate Matter

Parameter	Abbr.	3rd Tri	0<2	2<16	16<30
Daily Breathing Rate (mg/kg/day)[1]	DBR			520	
Inhalation Absorption Factor (unitless)	A			1.0	
Exposure Frequency (unitless)[2]	EF			0.49	
Conversion Factor (ug to mg, L to m^3)	CF			1.00E-06	
Age Sensitivity Factor (unitless)	ASF			3.00	
Exposure Duration (years)	ED			**12.00**	
Averaging Time for Lifetime (years)	AT			70	
Fraction of Time at Home (unitless)	FAH			0.42	
Worker Adjustment Factor (unitless)	WAF			4.2	
Cancer Conversion Factor (unitless)	CCF			1.00E+06	
Cancer Potency Factor (mg/kg/day)$^{-1}$	CPF			1.1	
Source: OEEHA 2015					

1. Table 5.8, 95th percentile for 2<16.
2. School exposure based on 180 days and 10 hours of exposure (FAH).
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

Worker

Exposure Factors by Age Bin- Construction

WORKER - Diesel Particulate Matter

Parameter	Abbr.	16<70
Daily Breathing Rate (mg/kg/day)	DBR	230
Inhalation Absorption Factor (unitless)	A	1
Exposure Frequency (unitless)	EF	0.68
Conversion Factor (ug to mg, L to m^3)	CF	1.00E-06
Age Sensitivity Factor (unitless)	ASF	1
Exposure Duration (years)	ED	**25**
Averaging Time for Lifetime (years)	AT	70
Fraction of Time at Home (unitless)	FAH	0.33
Worker Adjustment Factor (unitless)	WAF	4.2
Cancer Conversion Factor (unitless)	CCF	1.00E+06
Cancer Potency Factor $(mg/kg/day)^{-1}$	CPF	1.1

Source: OEEHA 2015
1. 95th percentile for 16<30, moderate intensity.
2. Based on 250 days/365 days per year with 8-hour breathing rates.
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

Recreational

Exposure Factors by Age Bin- Construction

RECREATION (PARK Receptors)

Parameter	Abbr.	3rd Tri	0<2	2<16	16<30
Daily Breathing Rate $(mg/kg/day)^1$	DBR	361	1,200	745	335
Inhalation Absorption Factor (unitless)	A	1.0	1.0	1.0	1.0
Exposure Frequency (unitless)[2]	EF	0.96	0.96	0.96	0.96
Conversion Factor (ug to mg, L to m^3)	CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06
Age Sensitivity Factor (unitless)	ASF	10	10	3	1
Exposure Duration (years)	ED	**0.25**	**2.00**	**14.00**	**14.00**
Averaging Time for Lifetime (years)	AT	70.0	70	70	70
Fraction of Time at Home (unitless)	FAH	0.125	0.125	0.125	0.125
Worker Adjustment Factor (unitless)	WAF	4.2	4.2	4.2	4.2
Cancer Conversion Factor (unitless)	CCF	1.00E+06	1.00E+06	1.00E+06	1.00E+06
	CPF	1.1	1.1	1.1	1.1

Source: OEEHA 2015
1.95th percentile DBR for 3rd Tri & 0<2 (table 5.8); Table 5.7 95%.
2. Based on attending park 3 hours per day, 350 days
3. Different exposure durations were used for each of the three building alternatives and Ardenwood Station.

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AERMOD Setup


CCJPA - Coast Operational HRA
AERMOD Setup
Legend
Ardenwood Area Source - Alt E
Construction Area Source - Alt E
Line Volume Source
Lucid Motors
Newark Buffet
Newark Junior High School
Pacific Research Center
Sensitive Receptors
Site Domain Border
IDLE_WEST
EMGEN
IDLE_EAST
Ardenwood Historic Farm
Karl Nordvik Park
Ardenwood Blvd
Safeway
Lakeshore Park
Sprouts Farmers Market
Newark Buffet
Newark Blvd
Cedar Blvd
Jarvis Ave
Lucid Motors
Pacific Research Center
Newark Junior High School
The Home Depot
CABRILLO
Fremont Blvd
880
Google Earth
3000 ft
N

CCJPA - Niles Existing Ops HRA

AERMOD Setup for the existing CCJPA Rail emissions.

Legend

- N_PASS_D - Passenger Rail Emissons
- Newark Buffet
- Newark Junior High School
- Pacific Research Center
- Sensitive Receptors
- Site Domain Border

Niles Blvd
Devout Coffee
Niles Blvd
Niles Community Park
238
Mission Blvd
Alameda Creek
Mowry Ave
Dakshin cafe
Shinn Historical Park and Arboretum
84
PARKMONT
Google Earth
3000 ft
N

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day)[1] PM2.5 Exhaust	PM2.5 Dust	PM10 Exhaust	
Ardenwood-JarvisSW	2027	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	0.054	0.841	0.054	Coast
Ardenwood-JarvisUtil	2027	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	0.019	-	0.019	Coast
Ardenwood-JarvisRWPrep	2027	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	0.390	0.001	0.400	Coast
Ardenwood-JarvisRWProduction	2027	Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	0.317	-	0.321	Coast
Ardenwood-JarvisStr	2027	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	0.030	-	0.030	Coast
Ardenwood-JarvisSta	2027	Ardenwood-JarvisSta - 2027	-	-	-	-	0.001	-	Ardn_
Ardenwood-JarvisSW	2028	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	0.054	0.841	0.054	Coast
Ardenwood-JarvisUtil	2028	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	0.019	-	0.019	Coast
Ardenwood-JarvisRWPrep	2028	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	0.390	0.001	0.400	Coast
Ardenwood-JarvisRWProduction	2028	Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	0.317	-	0.321	Coast
Ardenwood-JarvisStr	2028	Ardenwood-JarvisStr - 2028	-	-	-	-	-	-	Coast
Ardenwood-JarvisSta	2028	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	0.223	0.001	0.232	Ardn_
Ardenwood-JarvisSW	2029	Ardenwood-JarvisSW - 2029	-	-	0	-	0.004	-	Coast
Ardenwood-JarvisUtil	2029	Ardenwood-JarvisUtil - 2029	-	-	0	-	-	-	Coast
Ardenwood-JarvisRWPrep	2029	Ardenwood-JarvisRWPrep - 2029	-	-	0	0.330	-	0.341	Coast
Ardenwood-JarvisRWProduction	2029	Ardenwood-JarvisRWProduction - 2029	-	-	-	-	-	-	Coast
Ardenwood-JarvisStr	2029	Ardenwood-JarvisStr - 2029	-	-	0	-	-	-	Coast
Ardenwood-JarvisSta	2029	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	0.232	0.001	0.232	Ardn_

Phase Name	Start Date	End Date	# of Workdays	Trips per day Employee	Trips per day Vendor	Trips per day Haul
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	20	2	36
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	5		4
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	10		6
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	47		4
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	14		10
Ardenwood-JarvisSta - 2027	-	-	-			
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	20	2	36
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	5		4
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	10		6
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	47		4
Ardenwood-JarvisStr - 2028	-	-	-			10
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	60	4	58
Ardenwood-JarvisSW - 2029	-	-	0			
Ardenwood-JarvisUtil - 2029	-	-	0			
Ardenwood-JarvisRWPrep - 2029	-	-	0			
Ardenwood-JarvisRWProduction - 2029	-	-	-			
Ardenwood-JarvisStr - 2029	-	-	0			
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	60	4	58

Notes:

1. Mass Emissions assumed construction occuring over all 17.4 miles of the Coast Line besides the Statioon Portion (sTa). The AERMOD area source is 1.05 miles long. The Daily Emissions were scaled down to only be occuring within the 1.05 mile long stretch modeled for all phase names besides subStr.

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM2.5 Exhaust	PM10 Exhaust
Ardenwood-JarvisSW	2027	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	0.05	0.05
Ardenwood-JarvisUtil	2027	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	0.02	0.02
Ardenwood-JarvisRWPrep	2027	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	0.06	0.06
Ardenwood-JarvisRWProduction	2027	Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	0.32	0.32
Ardenwood-JarvisStr	2027	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	0.03	0.03
Ardenwood-JarvisSta	2027	Ardenwood-JarvisSta - 2027	-	-	-	-	-
Ardenwood-JarvisSW	2028	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	0.05	0.05
Ardenwood-JarvisUtil	2028	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	0.02	0.02
Ardenwood-JarvisRWPrep	2028	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	0.06	0.06
Ardenwood-JarvisRWProduction	2028	Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	0.32	0.32
Ardenwood-JarvisStr	2028	Ardenwood-JarvisStr - 2028	-	-	-	-	-
Ardenwood-JarvisSta	2028	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	0.22	0.23
Ardenwood-JarvisSW	2029	Ardenwood-JarvisSW - 2029	-	-	0	-	-
Ardenwood-JarvisUtil	2029	Ardenwood-JarvisUtil - 2029	-	-	0	-	-
Ardenwood-JarvisRWPrep	2029	Ardenwood-JarvisRWPrep - 2029	-	-	0	-	-
Ardenwood-JarvisRWProduction	2029	Ardenwood-JarvisRWProduction - 2029	-	-	-	-	-
Ardenwood-JarvisStr	2029	Ardenwood-JarvisStr - 2029	-	-	0	-	-
Ardenwood-JarvisSta	2029	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	0.23	0.23

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM2.5 Exhaust	PM10 Exhaust
Ardenwood-JarvisSW	2027	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	-	-
Ardenwood-JarvisUtil	2027	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	-	-
Ardenwood-JarvisRWPrep	2027	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	0.33	0.34
Ardenwood-JarvisRWProduction	2027	Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	-	-
Ardenwood-JarvisStr	2027	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	-	-
Ardenwood-JarvisSta	2027	Ardenwood-JarvisSta - 2027	-	-	-	-	-
Ardenwood-JarvisSW	2028	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	-	-
Ardenwood-JarvisUtil	2028	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	-	-
Ardenwood-JarvisRWPrep	2028	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	0.33	0.34
Ardenwood-JarvisRWProduction	2028	Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	-	-
Ardenwood-JarvisStr	2028	Ardenwood-JarvisStr - 2028	-	-	-	-	-
Ardenwood-JarvisSta	2028	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	-	-
Ardenwood-JarvisSW	2029	Ardenwood-JarvisSW - 2029	-	-	0	-	-
Ardenwood-JarvisUtil	2029	Ardenwood-JarvisUtil - 2029	-	-	0	-	-
Ardenwood-JarvisRWPrep	2029	Ardenwood-JarvisRWPrep - 2029	-	-	0	0.33	0.34
Ardenwood-JarvisRWProduction	2029	Ardenwood-JarvisRWProduction - 2029	-	-	-	-	-
Ardenwood-JarvisStr	2029	Ardenwood-JarvisStr - 2029	-	-	0	-	-
Ardenwood-JarvisSta	2029	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	-	-

Notes: The rail segment from Jarvis

Loco Scaling Factor **23%**

Note: This is the scaling of onsite emission versus offsite emission, (hr/day).

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day)	
							PM2.5 Dust
Ardenwood-JarvisSW	2027	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45		0.84
Ardenwood-JarvisUtil	2027	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45		-
Ardenwood-JarvisRWPrep	2027	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23		0.00
Ardenwood-JarvisRWProduction	2027	Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23		-
Ardenwood-JarvisStr	2027	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65		-
Ardenwood-JarvisSta	2027	Ardenwood-JarvisSta - 2027	-	-	-		0.00
Ardenwood-JarvisSW	2028	Ardenwood-JarvisSW - 2028	46753	46784	21		0.84
Ardenwood-JarvisUtil	2028	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21		-
Ardenwood-JarvisRWPrep	2028	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42		0.00
Ardenwood-JarvisRWProduction	2028	Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42		-
Ardenwood-JarvisStr	2028	Ardenwood-JarvisStr - 2028	-	-	-		-
Ardenwood-JarvisSta	2028	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239		0.00
Ardenwood-JarvisSW	2029	Ardenwood-JarvisSW - 2029	-	-	0		
Ardenwood-JarvisUtil	2029	Ardenwood-JarvisUtil - 2029	-	-	0		
Ardenwood-JarvisRWPrep	2029	Ardenwood-JarvisRWPrep - 2029	-	-	0		
Ardenwood-JarvisRWProduction	2029	Ardenwood-JarvisRWProduction - 2029	-	-	-		
Ardenwood-JarvisStr	2029	Ardenwood-JarvisStr - 2029	-	-	0		
Ardenwood-JarvisSta	2029	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22		0.00

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day)	
							PM2.5 Dust
Ardenwood-JarvisSW	2027	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45		0.00
Ardenwood-JarvisUtil	2027	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45		-
Ardenwood-JarvisRWPrep	2027	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23		-
Ardenwood-JarvisRWProduction	2027	Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23		-
Ardenwood-JarvisStr	2027	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65		-
Ardenwood-JarvisSta	2027	Ardenwood-JarvisSta - 2027	-	-	-		-
Ardenwood-JarvisSW	2028	Ardenwood-JarvisSW - 2028	46753	46784	21		0.00
Ardenwood-JarvisUtil	2028	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21		-
Ardenwood-JarvisRWPrep	2028	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42		-
Ardenwood-JarvisRWProduction	2028	Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42		-
Ardenwood-JarvisStr	2028	Ardenwood-JarvisStr - 2028	-	-	-		-
Ardenwood-JarvisSta	2028	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239		-
Ardenwood-JarvisSW	2029	Ardenwood-JarvisSW - 2029	-	-	0		0.00
Ardenwood-JarvisUtil	2029	Ardenwood-JarvisUtil - 2029	-	-	0		-
Ardenwood-JarvisRWPrep	2029	Ardenwood-JarvisRWPrep - 2029	-	-	0		-
Ardenwood-JarvisRWProduction	2029	Ardenwood-JarvisRWProduction - 2029	-	-	-		-
Ardenwood-JarvisStr	2029	Ardenwood-JarvisStr - 2029	-	-	0		-
Ardenwood-JarvisSta	2029	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22		-

Coast Sub - DPM (PM10) Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day)[1] PM10 Exhaust		
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	0.003		Coast
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.693		Coast
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	0.012		Coast
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	0.11		Ardn_
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	0.074		Coast
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	0.002		Coast
coastsubSW	2025	coastsubSW - 2025	-	-	0	-		Coast
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-		Coast
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-		Coast
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	0.11		Ardn_
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-		Coast
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	0.002		Coast
coastsubSW	2026	coastsubSW - 2026	-	-	0	-		Coast
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-		Coast
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-		Coast
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	0.11		Ardn_
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-		Coast
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-		Coast
				scaling factor	0.06			

Notes:

1. Mass Emissions assumed construction occuring over all 17.4 miles of the Coast Line besides the Structures Portion (subStr). The AERMOD area source is 1.05 miles long. The Daily Emissions were scaled down to only be occuring within the 1.05 mile long stretch modeled for all phase names besides subStr.

Phase Name	Start Date	End Date	# of Workdays	Trips per day Employee	Trips per day Vendor	Trips per day Haul
coastsubSW - 2024	1/1/2024	7/8/2024	135	44	2	47
coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	20		6
coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	60		2
coastsubStr - 2024	12/3/2024	12/31/2024	21	40		44
coastsubRdwy - 2024	10/8/2024	12/3/2024	40	24		12
coastsubUtil - 2024	1/1/2024	12/31/2024	262	14		6
coastsubSW - 2025	-	-	0			
coastsubRWPrep - 2025	-	-	0			
coastsubRWProduction - 2025	-	-	0			
coastsubStr - 2025	1/1/2025	12/31/2025	261	40		44
coastsubRdwy - 2025	-	-	0			
coastsubUtil - 2025	1/1/2025	9/22/2025	188	14		6
coastsubSW - 2026	-	-	0			
coastsubRWPrep - 2026	-	-	0			
coastsubRWProduction - 2026	-	-	0			
coastsubStr - 2026	1/1/2026	5/29/2026	106	40		44
coastsubRdwy - 2026	-	-	0			
coastsubUtil - 2026	-	-	0			

Coast Sub - Emissions

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	0.06	-
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.08	-
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	0.19	-
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	0.11	-
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	1.23	-
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	0.04	-
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	-
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	-
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	0.11	-
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	0.04	-
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	-
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	-
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	0.11	-
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM2.5 Exhaust	PM2.5 Dust
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	-	-
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.69	-
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	-	-
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	-	-
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	-	-
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	-	-
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	-
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	-
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	-	-
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	-	-
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	-
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	-
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	-	-
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-
						FALSE	TRUE

Locomotive Scaling Factor **17%**

Notes:

1. The locomotive scaling factor is used to calculate the onsite Locomotive emissions near sensitive receptors.

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day)[1] PM2.5 Exhaust	PM2.5 Dust	
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	0.003	0.060	Coast
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.045	0.001	Coast
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	0.011	-	Coast
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	0.13	-	Ardn_
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	0.068	-	Coast
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	0.002	-	Coast
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	0.060	Coast
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	0.001	Coast
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-	Coast
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	0.11	-	Ardn_
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-	Coast
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	0.002	0.010	Coast
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	0.060	Coast
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	0.001	Coast
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-	Coast
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	0.11	-	Ardn_
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-	Coast
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-	Coast
				scaling factor	0.06			

Notes:

1. Mass Emissions assumed construction occuring over all 17.4 miles of the Coast Line besides the Structures Portion (subStr). The AERMOD area source is 1.05 miles long. The Daily Emissions were scaled down to only be occuring within the 1.05 mile long stretch modeled for all phase names besides subStr.

Phase Name	Start Date	End Date	# of Workdays	Trips per day Employee	Trips per day Vendor	Trips per day Haul
coastsubSW - 2024	1/1/2024	7/8/2024	135	44	2	47
coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	20		6
coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	60		2
coastsubStr - 2024	12/3/2024	12/31/2024	21	40		44
coastsubRdwy - 2024	10/8/2024	12/3/2024	40	24		12
coastsubUtil - 2024	1/1/2024	12/31/2024	262	14		6
coastsubSW - 2025	-	-	0			
coastsubRWPrep - 2025	-	-	0			
coastsubRWProduction - 2025	-	-	0			
coastsubStr - 2025	1/1/2025	12/31/2025	261	40		44
coastsubRdwy - 2025	-	-	0			
coastsubUtil - 2025	1/1/2025	9/22/2025	188	14		6
coastsubSW - 2026	-	-	0			
coastsubRWPrep - 2026	-	-	0			
coastsubRWProduction - 2026	-	-	0			
coastsubStr - 2026	1/1/2026	5/29/2026	106	40		44
coastsubRdwy - 2026	-	-	0			
coastsubUtil - 2026	-	-	0			

Coast Sub - Emissions

						Daily Emissions (lb/day)	
Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	PM2.5 Exhaust	PM2.5 Dust
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	0.06	-
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.08	-
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	0.19	-
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	0.11	-
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	1.13	-
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	0.04	-
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	-
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	-
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	0.11	-
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	0.04	-
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	-
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	-
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	0.11	-
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-
						TRUE	TRUE

Coast Sub - Emissions

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	0.00	0.35
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.00	0.16
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	0.00	0.48
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	0.00	0.32
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	0.00	0.19
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	0.00	0.11
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	-
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	-
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	0.00	0.32
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	0.00	0.11
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	-
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	-
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	0.00	0.32
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-
						TRUE	TRUE

Coast Sub - Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM2.5 Exhaust	PM2.5 Dust
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	-	-
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	0.67	-
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	-	-
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	-	-
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	-	-
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	-	-
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	-
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	-
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	-	-
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	-	-
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	-
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	-
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	-	-
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-
						TRUE	TRUE
				Locomotive Scaling Factor		**17%**	

Coast Sub - Emissions

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	-	0.98
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	-	0.02
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	-	-
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	-	-
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	-	-
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	-	-
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	0.98
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	0.02
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	-	-
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	-	-
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	0.98
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	0.02
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	-	-
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-
						TRUE	TRUE

Coast Sub - Emissions

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
coastsubSW	2024	coastsubSW - 2024	1/1/2024	7/8/2024	135	-	0.01
coastsubRWPrep	2024	coastsubRWPrep - 2024	7/8/2024	10/4/2024	64	-	-
coastsubRWProduction	2024	coastsubRWProduction - 2024	7/8/2024	7/10/2024	2	-	-
coastsubStr	2024	coastsubStr - 2024	12/3/2024	12/31/2024	21	-	-
coastsubRdwy	2024	coastsubRdwy - 2024	10/8/2024	12/3/2024	40	-	-
coastsubUtil	2024	coastsubUtil - 2024	1/1/2024	12/31/2024	262	-	-
coastsubSW	2025	coastsubSW - 2025	-	-	0	-	0.01
coastsubRWPrep	2025	coastsubRWPrep - 2025	-	-	0	-	-
coastsubRWProduction	2025	coastsubRWProduction - 2025	-	-	0	-	-
coastsubStr	2025	coastsubStr - 2025	1/1/2025	12/31/2025	261	-	-
coastsubRdwy	2025	coastsubRdwy - 2025	-	-	0	-	-
coastsubUtil	2025	coastsubUtil - 2025	1/1/2025	9/22/2025	188	-	-
coastsubSW	2026	coastsubSW - 2026	-	-	0	-	0.01
coastsubRWPrep	2026	coastsubRWPrep - 2026	-	-	0	-	-
coastsubRWProduction	2026	coastsubRWProduction - 2026	-	-	0	-	-
coastsubStr	2026	coastsubStr - 2026	1/1/2026	5/29/2026	106	-	-
coastsubRdwy	2026	coastsubRdwy - 2026	-	-	0	-	-
coastsubUtil	2026	coastsubUtil - 2026	-	-	0	-	-
						TRUE	TRUE

Alternative B

Alameda Creek - Total Emissions (PM2.5)

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
AlamedaCkFreBOSW	2024	AlamedaCkFreBOSW - 2024	10/29/2024	12/31/2024	46	0.08	2.50
AlamedaCkFreBOUtil	2024	AlamedaCkFreBOUtil - 2024	10/29/2024	12/31/2024	46	0.01	0.05
AlamedaCkFreBORWPrep	2024	AlamedaCkFreBORWPrep - 2024	-	-	0	0.06	0.07
AlamedaCkFreBORWProduction	2024	AlamedaCkFreBORWProduction - 2024	-	-	0	0.19	0.12
AlamedaCkFreBOStr	2024	AlamedaCkFreBOStr - 2024	-	-	0	-	-
AlamedaCkFreBORdwy	2024	AlamedaCkFreBORdwy - 2024	10/29/2024	12/31/2024	46	0.05	0.10
AlamedaCkFreBOSW	2025	AlamedaCkFreBOSW - 2025	1/1/2025	3/18/2025	54	0.08	2.50
AlamedaCkFreBOUtil	2025	AlamedaCkFreBOUtil - 2025	1/1/2025	3/18/2025	54	0.01	0.05
AlamedaCkFreBORWPrep	2025	AlamedaCkFreBORWPrep - 2025	7/8/2025	10/28/2025	80	1.87	0.07
AlamedaCkFreBORWProduction	2025	AlamedaCkFreBORWProduction - 2025	7/8/2025	7/16/2025	6	0.18	0.12
AlamedaCkFreBOStr	2025	AlamedaCkFreBOStr - 2025	3/18/2025	7/8/2025	80	0.03	0.11
AlamedaCkFreBORdwy	2025	AlamedaCkFreBORdwy - 2025	1/1/2025	3/18/2025	54	0.05	0.10
AlamedaCkFreBOSW	2026	AlamedaCkFreBOSW - 2026	-	-	0	-	2.26
AlamedaCkFreBOUtil	2026	AlamedaCkFreBOUtil - 2026	-	-	0	-	-
AlamedaCkFreBORWPrep	2026	AlamedaCkFreBORWPrep - 2026	-	-	0	-	0.00
AlamedaCkFreBORWProduction	2026	AlamedaCkFreBORWProduction - 2026	-	-	0	-	-
AlamedaCkFreBOStr	2026	AlamedaCkFreBOStr - 2026	-	-	0	-	-
AlamedaCkFreBORdwy	2026	AlamedaCkFreBORdwy - 2026	-	-	0	-	-

Note: The Grade Separated and At Grade emissions are the same except for industrial boulevard.

Alameda Creek - Mobile

Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**Employee Trips Per Day**	**Vendor Truck Trips Per Day**	**Haul Truck Trips Per Day**
AlamedaCkFreBOSW	2024	AlamedaCkFreBOSW - 2024	10/29/2024	12/31/2024	46	40	1	67
AlamedaCkFreBOUtil	2024	AlamedaCkFreBOUtil - 2024	10/29/2024	12/31/2024	46	16	0	10
AlamedaCkFreBORWPrep	2024	AlamedaCkFreBORWPrep - 2024	-	-	0	30	0	6
AlamedaCkFreBORWProduction	2024	AlamedaCkFreBORWProduction - 2024	-	-	0	60	0	2
AlamedaCkFreBOStr	2024	AlamedaCkFreBOStr - 2024	-	-	0	0	0	0
AlamedaCkFreBORdwy	2024	AlamedaCkFreBORdwy - 2024	10/29/2024	12/31/2024	46	40	0	2
AlamedaCkFreBOSW	2025	AlamedaCkFreBOSW - 2025	1/1/2025	3/18/2025	54	40	1	67
AlamedaCkFreBOUtil	2025	AlamedaCkFreBOUtil - 2025	1/1/2025	3/18/2025	54	16	0	10
AlamedaCkFreBORWPrep	2025	AlamedaCkFreBORWPrep - 2025	7/8/2025	10/28/2025	80	30	0	6
AlamedaCkFreBORWProduction	2025	AlamedaCkFreBORWProduction - 2025	7/8/2025	7/16/2025	6	60	0	2
AlamedaCkFreBOStr	2025	AlamedaCkFreBOStr - 2025	3/18/2025	7/8/2025	80	40	0	18
AlamedaCkFreBORdwy	2025	AlamedaCkFreBORdwy - 2025	1/1/2025	3/18/2025	54	40	0	12
AlamedaCkFreBOSW	2026	AlamedaCkFreBOSW - 2026	-	-	0			
AlamedaCkFreBOUtil	2026	AlamedaCkFreBOUtil - 2026	-	-	0			
AlamedaCkFreBORWPrep	2026	AlamedaCkFreBORWPrep - 2026	-	-	0			
AlamedaCkFreBORWProduction	2026	AlamedaCkFreBORWProduction - 2026	-	-	0			
AlamedaCkFreBOStr	2026	AlamedaCkFreBOStr - 2026	-	-	0			
AlamedaCkFreBORdwy	2026	AlamedaCkFreBORdwy - 2026	-	-	0			

Alternative B

Alameda Creek - DPM (PM10 Exhaust Emissions)

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM10 Exhaust	
AlamedaCkFreBOSW	2024	AlamedaCkFreBOSW - 2024	10/29/2024	12/31/2024	46	0.06	
AlamedaCkFreBOUtil	2024	AlamedaCkFreBOUtil - 2024	10/29/2024	12/31/2024	46	0.01	
AlamedaCkFreBORWPrep	2024	AlamedaCkFreBORWPrep - 2024	-	-	0	0.06	
AlamedaCkFreBORWProduction	2024	AlamedaCkFreBORWProduction - 2024	-	-	0	0.20	
AlamedaCkFreBOStr	2024	AlamedaCkFreBOStr - 2024	-	-	0	-	
AlamedaCkFreBORdwy	2024	AlamedaCkFreBORdwy - 2024	10/29/2024	12/31/2024	46	0.04	
AlamedaCkFreBOSW	2025	AlamedaCkFreBOSW - 2025	1/1/2025	3/18/2025	54	0.06	
AlamedaCkFreBOUtil	2025	AlamedaCkFreBOUtil - 2025	1/1/2025	3/18/2025	54	0.01	
AlamedaCkFreBORWPrep	2025	AlamedaCkFreBORWPrep - 2025	7/8/2025	10/28/2025	80	0.91	
AlamedaCkFreBORWProduction	2025	AlamedaCkFreBORWProduction - 2025	7/8/2025	7/16/2025	6	0.19	
AlamedaCkFreBOStr	2025	AlamedaCkFreBOStr - 2025	3/18/2025	7/8/2025	80	0.02	
AlamedaCkFreBORdwy	2025	AlamedaCkFreBORdwy - 2025	1/1/2025	3/18/2025	54	0.04	
AlamedaCkFreBOSW	2026	AlamedaCkFreBOSW - 2026	-	-	0	-	
AlamedaCkFreBOUtil	2026	AlamedaCkFreBOUtil - 2026	-	-	0	-	
AlamedaCkFreBORWPrep	2026	AlamedaCkFreBORWPrep - 2026	-	-	0	-	
AlamedaCkFreBORWProduction	2026	AlamedaCkFreBORWProduction - 2026	-	-	0	-	
AlamedaCkFreBOStr	2026	AlamedaCkFreBOStr - 2026	-	-	0	-	
AlamedaCkFreBORdwy	2026	AlamedaCkFreBORdwy - 2026	-	-	0	-	

Note: The Grade Separated and At Grade emissions are the same except for industrial boulevard.

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Employee Trips Per Day	Vendor Truck Trips Per Day	Haul Truck Trips Per Day
AlamedaCkFreBOSW	2024	AlamedaCkFreBOSW - 2024	10/29/2024	12/31/2024	46	40	1	67
AlamedaCkFreBOUtil	2024	AlamedaCkFreBOUtil - 2024	10/29/2024	12/31/2024	46	16	0	10
AlamedaCkFreBORWPrep	2024	AlamedaCkFreBORWPrep - 2024	-	-	0	30	0	6
AlamedaCkFreBORWProduction	2024	AlamedaCkFreBORWProduction - 2024	-	-	0	60	0	2
AlamedaCkFreBOStr	2024	AlamedaCkFreBOStr - 2024	-	-	0	0	0	0
AlamedaCkFreBORdwy	2024	AlamedaCkFreBORdwy - 2024	10/29/2024	12/31/2024	46	40	0	2
AlamedaCkFreBOSW	2025	AlamedaCkFreBOSW - 2025	1/1/2025	3/18/2025	54	40	1	67
AlamedaCkFreBOUtil	2025	AlamedaCkFreBOUtil - 2025	1/1/2025	3/18/2025	54	16	0	10
AlamedaCkFreBORWPrep	2025	AlamedaCkFreBORWPrep - 2025	7/8/2025	10/28/2025	80	30	0	6
AlamedaCkFreBORWProduction	2025	AlamedaCkFreBORWProduction - 2025	7/8/2025	7/16/2025	6	60	0	2
AlamedaCkFreBOStr	2025	AlamedaCkFreBOStr - 2025	3/18/2025	7/8/2025	80	40	0	18
AlamedaCkFreBORdwy	2025	AlamedaCkFreBORdwy - 2025	1/1/2025	3/18/2025	54	40	0	12
AlamedaCkFreBOSW	2026	AlamedaCkFreBOSW - 2026	-	-	0			
AlamedaCkFreBOUtil	2026	AlamedaCkFreBOUtil - 2026	-	-	0			
AlamedaCkFreBORWPrep	2026	AlamedaCkFreBORWPrep - 2026	-	-	0			
AlamedaCkFreBORWProduction	2026	AlamedaCkFreBORWProduction - 2026	-	-	0			
AlamedaCkFreBOStr	2026	AlamedaCkFreBOStr - 2026	-	-	0			
AlamedaCkFreBORdwy	2026	AlamedaCkFreBORdwy - 2026	-	-	0			

Alameda Creek - Emissions At Grade - OFFROAD

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM10 Exhaust**	**PM2.5 Dust**
AlamedaCkFreBOSW	2024	AlamedaCkFreBOSW - 2024	10/29/2024	12/31/2024	46	0.06	-
AlamedaCkFreBOUtil	2024	AlamedaCkFreBOUtil - 2024	10/29/2024	12/31/2024	46	0.01	-
AlamedaCkFreBORWPrep	2024	AlamedaCkFreBORWPrep - 2024	-	-	0	0.06	-
AlamedaCkFreBORWProduction	2024	AlamedaCkFreBORWProduction - 2024	-	-	0	0.20	-
AlamedaCkFreBOStr	2024	AlamedaCkFreBOStr - 2024	-	-	0	-	-
AlamedaCkFreBORdwy	2024	AlamedaCkFreBORdwy - 2024	10/29/2024	12/31/2024	46	0.04	-
AlamedaCkFreBOSW	2025	AlamedaCkFreBOSW - 2025	1/1/2025	3/18/2025	54	0.06	-
AlamedaCkFreBOUtil	2025	AlamedaCkFreBOUtil - 2025	1/1/2025	3/18/2025	54	0.01	-
AlamedaCkFreBORWPrep	2025	AlamedaCkFreBORWPrep - 2025	7/8/2025	10/28/2025	80	0.06	-
AlamedaCkFreBORWProduction	2025	AlamedaCkFreBORWProduction - 2025	7/8/2025	7/16/2025	6	0.19	-
AlamedaCkFreBOStr	2025	AlamedaCkFreBOStr - 2025	3/18/2025	7/8/2025	80	0.02	-
AlamedaCkFreBORdwy	2025	AlamedaCkFreBORdwy - 2025	1/1/2025	3/18/2025	54	0.04	-
AlamedaCkFreBOSW	2026	AlamedaCkFreBOSW - 2026	-	-	0	-	-
AlamedaCkFreBOUtil	2026	AlamedaCkFreBOUtil - 2026	-	-	0	-	-
AlamedaCkFreBORWPrep	2026	AlamedaCkFreBORWPrep - 2026	-	-	0	-	-
AlamedaCkFreBORWProduction	2026	AlamedaCkFreBORWProduction - 2026	-	-	0	-	-
AlamedaCkFreBOStr	2026	AlamedaCkFreBOStr - 2026	-	-	0	-	-
AlamedaCkFreBORdwy	2026	AlamedaCkFreBORdwy - 2026	-	-	0	-	-

Alameda Creek - Emissions At Grade - Locomotive

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
AlamedaCkFreBOSW	2024	AlamedaCkFreBOSW - 2024	10/29/2024	12/31/2024	46	-	-
AlamedaCkFreBOUtil	2024	AlamedaCkFreBOUtil - 2024	10/29/2024	12/31/2024	46	-	-
AlamedaCkFreBORWPrep	2024	AlamedaCkFreBORWPrep - 2024	-	-	0	-	-
AlamedaCkFreBORWProduction	2024	AlamedaCkFreBORWProduction - 2024	-	-	0	-	-
AlamedaCkFreBOStr	2024	AlamedaCkFreBOStr - 2024	-	-	0	-	-
AlamedaCkFreBORdwy	2024	AlamedaCkFreBORdwy - 2024	10/29/2024	12/31/2024	46	-	-
AlamedaCkFreBOSW	2025	AlamedaCkFreBOSW - 2025	1/1/2025	3/18/2025	54	-	-
AlamedaCkFreBOUtil	2025	AlamedaCkFreBOUtil - 2025	1/1/2025	3/18/2025	54	-	-
AlamedaCkFreBORWPrep	2025	AlamedaCkFreBORWPrep - 2025	7/8/2025	10/28/2025	80	0.85	-
AlamedaCkFreBORWProduction	2025	AlamedaCkFreBORWProduction - 2025	7/8/2025	7/16/2025	6	-	-
AlamedaCkFreBOStr	2025	AlamedaCkFreBOStr - 2025	3/18/2025	7/8/2025	80	-	-
AlamedaCkFreBORdwy	2025	AlamedaCkFreBORdwy - 2025	1/1/2025	3/18/2025	54	-	-
AlamedaCkFreBOSW	2026	AlamedaCkFreBOSW - 2026	-	-	0	-	-
AlamedaCkFreBOUtil	2026	AlamedaCkFreBOUtil - 2026	-	-	0	-	-
AlamedaCkFreBORWPrep	2026	AlamedaCkFreBORWPrep - 2026	-	-	0	-	-
AlamedaCkFreBORWProduction	2026	AlamedaCkFreBORWProduction - 2026	-	-	0	-	-
AlamedaCkFreBOStr	2026	AlamedaCkFreBOStr - 2026	-	-	0	-	-
AlamedaCkFreBORdwy	2026	AlamedaCkFreBORdwy - 2026	-	-	0	-	-

Locomotive Scaling Factor **29%**

Alternative C

Alameda Creek - Total Emissions (PM 2.5)

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM2.5 Exhaust**	**PM2.5 Dust**
AlamedaCkFreC1SW	2024	AlamedaCkFreC1SW - 2024	10/29/2024	12/31/2024	46	0.09	2.52
AlamedaCkFreC1Util	2024	AlamedaCkFreC1Util - 2024	10/29/2024	12/31/2024	46	0.01	0.05
AlamedaCkFreC1RWPrep	2024	AlamedaCkFreC1RWPrep - 2024	-	-	0	-	0.01
AlamedaCkFreC1RWProduction	2024	AlamedaCkFreC1RWProduction - 2024	-	-	0	-	-
AlamedaCkFreC1Str	2024	AlamedaCkFreC1Str - 2024	-	-	0	-	-
AlamedaCkFreC1Rdwy	2024	AlamedaCkFreC1Rdwy - 2024	10/29/2024	12/31/2024	46	0.05	0.10
AlamedaCkFreC1SW	2025	AlamedaCkFreC1SW - 2025	1/1/2025	5/13/2025	94	0.09	2.52
AlamedaCkFreC1Util	2025	AlamedaCkFreC1Util - 2025	1/1/2025	5/13/2025	94	0.01	0.05
AlamedaCkFreC1RWPrep	2025	AlamedaCkFreC1RWPrep - 2025	-	-	0	-	0.01
AlamedaCkFreC1RWProduction	2025	AlamedaCkFreC1RWProduction - 2025	-	-	0	-	-
AlamedaCkFreC1Str	2025	AlamedaCkFreC1Str - 2025	2/18/2025	12/31/2025	227	0.01	0.18
AlamedaCkFreC1Rdwy	2025	AlamedaCkFreC1Rdwy - 2025	1/1/2025	5/13/2025	94	0.05	0.10
AlamedaCkFreC1SW	2026	AlamedaCkFreC1SW - 2026	-	-	0	-	2.27
AlamedaCkFreC1Util	2026	AlamedaCkFreC1Util - 2026	-	-	0	-	-
AlamedaCkFreC1RWPrep	2026	AlamedaCkFreC1RWPrep - 2026	7/6/2026	10/26/2026	80	0.96	0.08
AlamedaCkFreC1RWProduction	2026	AlamedaCkFreC1RWProduction - 2026	7/6/2026	7/14/2026	6	0.18	0.12
AlamedaCkFreC1Str	2026	AlamedaCkFreC1Str - 2026	1/1/2026	7/7/2026	133	0.05	0.18
AlamedaCkFreC1Rdwy	2026	AlamedaCkFreC1Rdwy - 2026	-	-	0	-	-

Note: The Grade Separated and At Grade emissions are the same except for industrial boulevard.

Alameda Creek - Mobile Trips

	Combined Name	**Start Date**	**End Date**	**# of Workdays**	**Employee 'Trips' per day**	**Vender 'Trips' Per Day**	**Haul'Trips ' per day**
AlamedaCkFreC1SW2024	AlamedaCkFreC1SW - 2024	10/29/2024	12/31/2024	46	40	2	72
AlamedaCkFreC1Util2024	AlamedaCkFreC1Util - 2024	10/29/2024	12/31/2024	46	20	2	10
AlamedaCkFreC1RWPrep2024	AlamedaCkFreC1RWPrep - 2024	-	-	0	0		
AlamedaCkFreC1RWProduction2024	AlamedaCkFreC1RWProduction - 2024	-	-	0	0		
AlamedaCkFreC1Rdwy2024	AlamedaCkFreC1Str - 2024	-	-	0			
AlamedaCkFreC1Str2024	AlamedaCkFreC1Rdwy - 2024	10/29/2024	12/31/2024	46	40		18
AlamedaCkFreC1SW2025	AlamedaCkFreC1SW - 2025	1/1/2025	5/13/2025	94	40		72
AlamedaCkFreC1Util2025	AlamedaCkFreC1Util - 2025	1/1/2025	5/13/2025	94	20		10
AlamedaCkFreC1RWPrep2025	AlamedaCkFreC1RWPrep - 2025	-	-	0	0		
AlamedaCkFreC1RWProduction2025	AlamedaCkFreC1RWProduction - 2025	-	-	0	0		
AlamedaCkFreC1Rdwy2025	AlamedaCkFreC1Str - 2025	2/18/2025	12/31/2025	227	70		20
AlamedaCkFreC1Str2025	AlamedaCkFreC1Rdwy - 2025	1/1/2025	5/13/2025	94	40		12
AlamedaCkFreC1SW2026	AlamedaCkFreC1SW - 2026	-	-	0	0		
AlamedaCkFreC1RWPrep2026	AlamedaCkFreC1Util - 2026	-	-	0	0		
AlamedaCkFreC1RWProduction2026	AlamedaCkFreC1RWPrep - 2026	7/6/2026	10/26/2026	80	30		6
AlamedaCkFreC1Rdwy2026	AlamedaCkFreC1RWProduction - 2026	7/6/2026	7/14/2026	6	60		2
AlamedaCkFreC1Str2026	AlamedaCkFreC1Str - 2026	1/1/2026	7/7/2026	133	70		20
	AlamedaCkFreC1Rdwy - 2026	-	-	0	0		

Alternative C

Alameda Creek - DPM (PM10 exhaust emissions)

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM10 Exhaust**	
AlamedaCkFreC1SW	2024	AlamedaCkFreC1SW - 2024	10/29/2024	12/31/2024	46	0.06	
AlamedaCkFreC1Util	2024	AlamedaCkFreC1Util - 2024	10/29/2024	12/31/2024	46	0.01	
AlamedaCkFreC1RWPrep	2024	AlamedaCkFreC1RWPrep - 2024	-	-	0	-	
AlamedaCkFreC1RWProduction	2024	AlamedaCkFreC1RWProduction - 2024	-	-	0	-	
AlamedaCkFreC1Str	2024	AlamedaCkFreC1Str - 2024	-	-	0	-	
AlamedaCkFreC1Rdwy	2024	AlamedaCkFreC1Rdwy - 2024	10/29/2024	12/31/2024	46	0.05	
AlamedaCkFreC1SW	2025	AlamedaCkFreC1SW - 2025	1/1/2025	5/13/2025	94	0.06	
AlamedaCkFreC1Util	2025	AlamedaCkFreC1Util - 2025	1/1/2025	5/13/2025	94	0.01	
AlamedaCkFreC1RWPrep	2025	AlamedaCkFreC1RWPrep - 2025	-	-	0	-	
AlamedaCkFreC1RWProduction	2025	AlamedaCkFreC1RWProduction - 2025	-	-	0	-	
AlamedaCkFreC1Str	2025	AlamedaCkFreC1Str - 2025	2/18/2025	12/31/2025	227	0.00	
AlamedaCkFreC1Rdwy	2025	AlamedaCkFreC1Rdwy - 2025	1/1/2025	5/13/2025	94	0.05	
AlamedaCkFreC1SW	2026	AlamedaCkFreC1SW - 2026	-	-	0	-	
AlamedaCkFreC1Util	2026	AlamedaCkFreC1Util - 2026	-	-	0	-	
AlamedaCkFreC1RWPrep	2026	AlamedaCkFreC1RWPrep - 2026	7/6/2026	10/26/2026	80	0.50	
AlamedaCkFreC1RWProduction	2026	AlamedaCkFreC1RWProduction - 2026	7/6/2026	7/14/2026	6	0.19	
AlamedaCkFreC1Str	2026	AlamedaCkFreC1Str - 2026	1/1/2026	7/7/2026	133	0.04	
AlamedaCkFreC1Rdwy	2026	AlamedaCkFreC1Rdwy - 2026	-	-	0	-	

Note: The Grade Separated and At Grade emissions are the same except for industrial boulevard

	Combined Name	**Start Date**	**End Date**	**# of Workdays**	**Employee 'Trips' per day**	**Vender 'Trips' Per Day**	**Haul'Trips ' per day**
AlamedaCkFreC1SW2024	AlamedaCkFreC1SW - 2024	10/29/2024	12/31/2024	46	40	2	72
AlamedaCkFreC1Util2024	AlamedaCkFreC1Util - 2024	10/29/2024	12/31/2024	46	20	2	10
AlamedaCkFreC1RWPrep2024	AlamedaCkFreC1RWPrep - 2024	-	-	0	0		
AlamedaCkFreC1RWProduction2024	AlamedaCkFreC1RWProduction - 2024	-	-	0	0		
AlamedaCkFreC1Rdwy2024	AlamedaCkFreC1Str - 2024	-	-	0			
AlamedaCkFreC1Str2024	AlamedaCkFreC1Rdwy - 2024	10/29/2024	12/31/2024	46	40		18
AlamedaCkFreC1SW2025	AlamedaCkFreC1SW - 2025	1/1/2025	5/13/2025	94	40		72
AlamedaCkFreC1Util2025	AlamedaCkFreC1Util - 2025	1/1/2025	5/13/2025	94	20		10
AlamedaCkFreC1RWPrep2025	AlamedaCkFreC1RWPrep - 2025	-	-	0	0		
AlamedaCkFreC1RWProduction2025	AlamedaCkFreC1RWProduction - 2025	-	-	0	0		
AlamedaCkFreC1Rdwy2025	AlamedaCkFreC1Str - 2025	2/18/2025	12/31/2025	227	70		20
AlamedaCkFreC1Str2025	AlamedaCkFreC1Rdwy - 2025	1/1/2025	5/13/2025	94	40		12
AlamedaCkFreC1SW2026	AlamedaCkFreC1SW - 2026	-	-	0	0		
AlamedaCkFreC1RWPrep2026	AlamedaCkFreC1Util - 2026	-	-	0	0		
AlamedaCkFreC1RWProduction2026	AlamedaCkFreC1RWPrep - 2026	7/6/2026	10/26/2026	80	30		6
AlamedaCkFreC1Rdwy2026	AlamedaCkFreC1RWProduction - 2026	7/6/2026	7/14/2026	6	60		2
AlamedaCkFreC1Str2026	AlamedaCkFreC1Str - 2026	1/1/2026	7/7/2026	133	70		20
	AlamedaCkFreC1Rdwy - 2026	-	-	0	0		

Alameda Creek - Emissions At Grade - OFFROAD

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM10 Exhaust	
AlamedaCkFreC1SW	2024	AlamedaCkFreC1SW - 2024	10/29/2024	12/31/2024	46	0.06	
AlamedaCkFreC1Util	2024	AlamedaCkFreC1Util - 2024	10/29/2024	12/31/2024	46	0.01	
AlamedaCkFreC1RWPrep	2024	AlamedaCkFreC1RWPrep - 2024	-	-	0	-	
AlamedaCkFreC1RWProduction	2024	AlamedaCkFreC1RWProduction - 2024	-	-	0	-	
AlamedaCkFreC1Str	2024	AlamedaCkFreC1Str - 2024	-	-	0	-	
AlamedaCkFreC1Rdwy	2024	AlamedaCkFreC1Rdwy - 2024	10/29/2024	12/31/2024	46	0.05	
AlamedaCkFreC1SW	2025	AlamedaCkFreC1SW - 2025	1/1/2025	5/13/2025	94	0.06	
AlamedaCkFreC1Util	2025	AlamedaCkFreC1Util - 2025	1/1/2025	5/13/2025	94	0.01	
AlamedaCkFreC1RWPrep	2025	AlamedaCkFreC1RWPrep - 2025	-	-	0	-	
AlamedaCkFreC1RWProduction	2025	AlamedaCkFreC1RWProduction - 2025	-	-	0	-	
AlamedaCkFreC1Str	2025	AlamedaCkFreC1Str - 2025	2/18/2025	12/31/2025	227	0.00	
AlamedaCkFreC1Rdwy	2025	AlamedaCkFreC1Rdwy - 2025	1/1/2025	5/13/2025	94	0.05	
AlamedaCkFreC1SW	2026	AlamedaCkFreC1SW - 2026	-	-	0	-	
AlamedaCkFreC1Util	2026	AlamedaCkFreC1Util - 2026	-	-	0	-	
AlamedaCkFreC1RWPrep	2026	AlamedaCkFreC1RWPrep - 2026	7/6/2026	10/26/2026	80	0.06	
AlamedaCkFreC1RWProduction	2026	AlamedaCkFreC1RWProduction - 2026	7/6/2026	7/14/2026	6	0.19	
AlamedaCkFreC1Str	2026	AlamedaCkFreC1Str - 2026	1/1/2026	7/7/2026	133	0.04	
AlamedaCkFreC1Rdwy	2026	AlamedaCkFreC1Rdwy - 2026	-	-	0	-	

Alameda Creek - Emissions At Grade - Locomotive

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM10 Exhaust	
AlamedaCkFreC1SW	2024	AlamedaCkFreC1SW - 2024	10/29/2024	12/31/2024	46	-	-
AlamedaCkFreC1Util	2024	AlamedaCkFreC1Util - 2024	10/29/2024	12/31/2024	46	-	-
AlamedaCkFreC1RWPrep	2024	AlamedaCkFreC1RWPrep - 2024	-	-	0	-	-
AlamedaCkFreC1RWProduction	2024	AlamedaCkFreC1RWProduction - 2024	-	-	0	-	-
AlamedaCkFreC1Str	2024	AlamedaCkFreC1Str - 2024	-	-	0	-	-
AlamedaCkFreC1Rdwy	2024	AlamedaCkFreC1Rdwy - 2024	10/29/2024	12/31/2024	46	-	-
AlamedaCkFreC1SW	2025	AlamedaCkFreC1SW - 2025	1/1/2025	5/13/2025	94	-	-
AlamedaCkFreC1Util	2025	AlamedaCkFreC1Util - 2025	1/1/2025	5/13/2025	94	-	-
AlamedaCkFreC1RWPrep	2025	AlamedaCkFreC1RWPrep - 2025	-	-	0	-	-
AlamedaCkFreC1RWProduction	2025	AlamedaCkFreC1RWProduction - 2025	-	-	0	-	-
AlamedaCkFreC1Str	2025	AlamedaCkFreC1Str - 2025	2/18/2025	12/31/2025	227	-	-
AlamedaCkFreC1Rdwy	2025	AlamedaCkFreC1Rdwy - 2025	1/1/2025	5/13/2025	94	-	-
AlamedaCkFreC1SW	2026	AlamedaCkFreC1SW - 2026	-	-	0	-	-
AlamedaCkFreC1Util	2026	AlamedaCkFreC1Util - 2026	-	-	0	-	-
AlamedaCkFreC1RWPrep	2026	AlamedaCkFreC1RWPrep - 2026	7/6/2026	10/26/2026	80	0.44	-
AlamedaCkFreC1RWProduction	2026	AlamedaCkFreC1RWProduction - 2026	7/6/2026	7/14/2026	6	-	-
AlamedaCkFreC1Str	2026	AlamedaCkFreC1Str - 2026	1/1/2026	7/7/2026	133	-	-
AlamedaCkFreC1Rdwy	2026	AlamedaCkFreC1Rdwy - 2026	-	-	0	-	-

Locomotive Scaling Factor **29%**

Alternative D

Alameda Creek - Total Emissions

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM2.5 Exhaust	PM2.5 Dust
AlamedaCkFreDSW	2024	AlamedaCkFreDSW - 2024	-	-	0	-	2.28
AlamedaCkFreDUtil	2024	AlamedaCkFreDUtil - 2024	-	-	0	-	-
AlamedaCkFreDRWPrep	2024	AlamedaCkFreDRWPrep - 2024	-	-	0	-	0.00
AlamedaCkFreDRWProduction	2024	AlamedaCkFreDRWProduction - 2024	-	-	0	-	-
AlamedaCkFreDStr	2024	AlamedaCkFreDStr - 2024	1/24/2024	12/31/2024	245	0.07	0.05
AlamedaCkFreDRdwy	2024	AlamedaCkFreDRdwy - 2024	-	-	0	-	-
AlamedaCkFreDSW	2025	AlamedaCkFreDSW - 2025	45735	7/9/2025	80	0.08	2.46
AlamedaCkFreDUtil	2025	AlamedaCkFreDUtil - 2025	3/19/2025	7/9/2025	80	0.01	0.03
AlamedaCkFreDRWPrep	2025	AlamedaCkFreDRWPrep - 2025	7/9/2025	10/29/2025	80	0.96	0.08
AlamedaCkFreDRWProduction	2025	AlamedaCkFreDRWProduction - 2025	7/9/2025	7/17/2025	6	0.05	0.05
AlamedaCkFreDStr	2025	AlamedaCkFreDStr - 2025	1/1/2025	3/19/2025	55	0.08	0.11
AlamedaCkFreDRdwy	2025	AlamedaCkFreDRdwy - 2025	10/18/2025	11/7/2025	15	0.05	0.06
AlamedaCkFreDSW	2026	AlamedaCkFreDSW - 2026	-	-	0	-	2.28
AlamedaCkFreDUtil	2026	AlamedaCkFreDUtil - 2026	-	-	0	-	-
AlamedaCkFreDRWPrep	2026	AlamedaCkFreDRWPrep - 2026	-	-	0	-	0.00
AlamedaCkFreDRWProduction	2026	AlamedaCkFreDRWProduction - 2026	-	-	0	-	-
AlamedaCkFreDStr	2026	AlamedaCkFreDStr - 2026	-	-	0	-	-
AlamedaCkFreDRdwy	2026	AlamedaCkFreDRdwy - 2026	-	-	0	-	-

Notes: Grade Separeated and at Grade emissions are the same except for Industrial Boulevard.

Combined Name	Start Date	End Date	# of Workdays	Employee 'Trips' per day	Vendor Trips Per Day	Haul'Trips ' per day
AlamedaCkFreDSW - 2024	-	-	0			
AlamedaCkFreDUtil - 2024	-	-	0			
AlamedaCkFreDRWPrep - 2024	-	-	0			
AlamedaCkFreDRWProduction - 2024	-	-	0			
AlamedaCkFreDStr - 2024	1/24/2024	12/31/2024	245			20
AlamedaCkFreDRdwy - 2024	-	-	0			
AlamedaCkFreDSW - 2025	3/19/2025	7/9/2025	80	20	2	201
AlamedaCkFreDUtil - 2025	3/19/2025	7/9/2025	80	10		6
AlamedaCkFreDRWPrep - 2025	7/9/2025	10/29/2025	80	30		6
AlamedaCkFreDRWProduction - 2025	7/9/2025	7/17/2025	6	20		2
AlamedaCkFreDStr - 2025	1/1/2025	3/19/2025	55	30		20
AlamedaCkFreDRdwy - 2025	10/18/2025	11/7/2025	15	20		12
AlamedaCkFreDSW - 2026	-	-	0			
AlamedaCkFreDUtil - 2026	-	-	0			
AlamedaCkFreDRWPrep - 2026	-	-	0			
AlamedaCkFreDRWProduction - 2026	-	-	0			
AlamedaCkFreDStr - 2026	-	-	0			
AlamedaCkFreDRdwy - 2026	-	-	0			

Alternative D

Alameda Creek - DPM Emissions (PM10 Exhaust)

						Daily Emissions (lb/day)	
Phase Name	**Year**	**Combined Name**	**Start Date**	**End Date**	**# of Workdays**	**PM10 Exhaust**	
AlamedaCkFreDSW	2024	AlamedaCkFreDSW - 2024	-	-	0	-	
AlamedaCkFreDUtil	2024	AlamedaCkFreDUtil - 2024	-	-	0	-	
AlamedaCkFreDRWPrep	2024	AlamedaCkFreDRWPrep - 2024	-	-	0	-	
AlamedaCkFreDRWProduction	2024	AlamedaCkFreDRWProduction - 2024	-	-	0	-	
AlamedaCkFreDStr	2024	AlamedaCkFreDStr - 2024	1/24/2024	12/31/2024	245	0.07	
AlamedaCkFreDRdwy	2024	AlamedaCkFreDRdwy - 2024	-	-	0	-	
AlamedaCkFreDSW	2025	AlamedaCkFreDSW - 2025	45735	7/9/2025	80	0.08	
AlamedaCkFreDUtil	2025	AlamedaCkFreDUtil - 2025	3/19/2025	7/9/2025	80	0.01	
AlamedaCkFreDRWPrep	2025	AlamedaCkFreDRWPrep - 2025	7/9/2025	10/29/2025	80	0.49	
AlamedaCkFreDRWProduction	2025	AlamedaCkFreDRWProduction - 2025	7/9/2025	7/17/2025	6	0.05	
AlamedaCkFreDStr	2025	AlamedaCkFreDStr - 2025	1/1/2025	3/19/2025	55	0.08	
AlamedaCkFreDRdwy	2025	AlamedaCkFreDRdwy - 2025	10/18/2025	11/7/2025	15	0.05	
AlamedaCkFreDSW	2026	AlamedaCkFreDSW - 2026	-	-	0	-	
AlamedaCkFreDUtil	2026	AlamedaCkFreDUtil - 2026	-	-	0	-	
AlamedaCkFreDRWPrep	2026	AlamedaCkFreDRWPrep - 2026	-	-	0	-	
AlamedaCkFreDRWProduction	2026	AlamedaCkFreDRWProduction - 2026	-	-	0	-	
AlamedaCkFreDStr	2026	AlamedaCkFreDStr - 2026	-	-	0	-	
AlamedaCkFreDRdwy	2026	AlamedaCkFreDRdwy - 2026	-	-	0	-	

Note: The Grade Separated and At Grade emissions are the same except for industrial boulevard.

Combined Name	**Start Date**	**End Date**	**# of Workdays**	**Employee 'Trips' per day**	**Vendor Trips Per Day**	**Haul'Trips ' per day**
AlamedaCkFreDSW - 2024	-	-	0			
AlamedaCkFreDUtil - 2024	-	-	0			
AlamedaCkFreDRWPrep - 2024	-	-	0			
AlamedaCkFreDRWProduction - 2024	-	-	0			
AlamedaCkFreDStr - 2024	1/24/2024	12/31/2024	245			20
AlamedaCkFreDRdwy - 2024	-	-	0			
AlamedaCkFreDSW - 2025	3/19/2025	7/9/2025	80	20	2	201
AlamedaCkFreDUtil - 2025	3/19/2025	7/9/2025	80	10		6
AlamedaCkFreDRWPrep - 2025	7/9/2025	10/29/2025	80	30		6
AlamedaCkFreDRWProduction - 2025	7/9/2025	7/17/2025	6	20		2
AlamedaCkFreDStr - 2025	1/1/2025	3/19/2025	55	30		20
AlamedaCkFreDRdwy - 2025	10/18/2025	11/7/2025	15	20		12
AlamedaCkFreDSW - 2026	-	-	0			
AlamedaCkFreDUtil - 2026	-	-	0			
AlamedaCkFreDRWPrep - 2026	-	-	0			
AlamedaCkFreDRWProduction - 2026	-	-	0			
AlamedaCkFreDStr - 2026	-	-	0			
AlamedaCkFreDRdwy - 2026	-	-	0			

Alameda Creek - Emissions At Grade - OFFROAD

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM10 Exhaust	
AlamedaCkFreDSW	2024	AlamedaCkFreDSW - 2024	-	-	0	-	
AlamedaCkFreDUtil	2024	AlamedaCkFreDUtil - 2024	-	-	0	-	
AlamedaCkFreDRWPrep	2024	AlamedaCkFreDRWPrep - 2024	-	-	0	-	
AlamedaCkFreDRWProduction	2024	AlamedaCkFreDRWProduction - 2024	-	-	0	-	
AlamedaCkFreDStr	2024	AlamedaCkFreDStr - 2024	1/24/2024	12/31/2024	245	0.07	
AlamedaCkFreDRdwy	2024	AlamedaCkFreDRdwy - 2024	-	-	0	-	
AlamedaCkFreDSW	2025	AlamedaCkFreDSW - 2025	3/19/2025	7/9/2025	80	0.06	
AlamedaCkFreDUtil	2025	AlamedaCkFreDUtil - 2025	3/19/2025	7/9/2025	80	0.00	
AlamedaCkFreDRWPrep	2025	AlamedaCkFreDRWPrep - 2025	7/9/2025	10/29/2025	80	0.05	
AlamedaCkFreDRWProduction	2025	AlamedaCkFreDRWProduction - 2025	7/9/2025	7/17/2025	6	0.05	
AlamedaCkFreDStr	2025	AlamedaCkFreDStr - 2025	1/1/2025	3/19/2025	55	0.07	
AlamedaCkFreDRdwy	2025	AlamedaCkFreDRdwy - 2025	10/18/2025	11/7/2025	15	0.05	
AlamedaCkFreDSW	2026	AlamedaCkFreDSW - 2026	-	-	0	-	
AlamedaCkFreDUtil	2026	AlamedaCkFreDUtil - 2026	-	-	0	-	
AlamedaCkFreDRWPrep	2026	AlamedaCkFreDRWPrep - 2026	-	-	0	-	
AlamedaCkFreDRWProduction	2026	AlamedaCkFreDRWProduction - 2026	-	-	0	-	
AlamedaCkFreDStr	2026	AlamedaCkFreDStr - 2026	-	-	0	-	
AlamedaCkFreDRdwy	2026	AlamedaCkFreDRdwy - 2026	-	-	0	-	

Alameda Creek - Emissions At Grade - Locomotive

Phase Name	Year	Combined Name	Start Date	End Date	# of Workdays	Daily Emissions (lb/day) PM10 Exhaust	
AlamedaCkFreDSW	2024	AlamedaCkFreDSW - 2024	-	-	0	-	
AlamedaCkFreDUtil	2024	AlamedaCkFreDUtil - 2024	-	-	0	-	
AlamedaCkFreDRWPrep	2024	AlamedaCkFreDRWPrep - 2024	-	-	0	-	
AlamedaCkFreDRWProduction	2024	AlamedaCkFreDRWProduction - 2024	-	-	0	-	
AlamedaCkFreDStr	2024	AlamedaCkFreDStr - 2024	1/24/2024	12/31/2024	245	-	
AlamedaCkFreDRdwy	2024	AlamedaCkFreDRdwy - 2024	-	-	0	-	
AlamedaCkFreDSW	2025	AlamedaCkFreDSW - 2025	3/19/2025	7/9/2025	80	-	
AlamedaCkFreDUtil	2025	AlamedaCkFreDUtil - 2025	3/19/2025	7/9/2025	80	-	
AlamedaCkFreDRWPrep	2025	AlamedaCkFreDRWPrep - 2025	7/9/2025	10/29/2025	80	0.44	
AlamedaCkFreDRWProduction	2025	AlamedaCkFreDRWProduction - 2025	7/9/2025	7/17/2025	6	-	
AlamedaCkFreDStr	2025	AlamedaCkFreDStr - 2025	1/1/2025	3/19/2025	55	-	
AlamedaCkFreDRdwy	2025	AlamedaCkFreDRdwy - 2025	10/18/2025	11/7/2025	15	-	
AlamedaCkFreDSW	2026	AlamedaCkFreDSW - 2026	-	-	0	-	
AlamedaCkFreDUtil	2026	AlamedaCkFreDUtil - 2026	-	-	0	-	
AlamedaCkFreDRWPrep	2026	AlamedaCkFreDRWPrep - 2026	-	-	0	-	
AlamedaCkFreDRWProduction	2026	AlamedaCkFreDRWProduction - 2026	-	-	0	-	
AlamedaCkFreDStr	2026	AlamedaCkFreDStr - 2026	-	-	0	-	
AlamedaCkFreDRdwy	2026	AlamedaCkFreDRdwy - 2026	-	-	0	-	

29%

CCJPA Project: Coast Subdivision - Alt E
HRA Summary-Mitigated

Construction Only

Receptor Type	Cancer Risk	Chronic HI	Annual $PM_{2.5}$ (ug/m^3)
Resident	3.10	0.005	0.08
School	0.6	0.005	0.06
Worker	0.6	0.007	0.08
Recreational	0.03	0.0002	0.003
BAAQMD Threshold	10	1.0	0.30
Exceeds Threshold?	**No**	**No**	**No**

Construction + Operations

Receptor Type	Cancer Risk	Chronic HI	Annual $PM_{2.5}$ (ug/m^3)
Resident	3.56	0.005	0.077
School	1.7	0.005	0.055
Worker	0.8	0.007	0.079
Recreational	0.03	0.0002	0.003
BAAQMD Threshold	10	1.0	0.30
Exceeds Threshold?	**No**	**No**	**No**

Note: Construction duration is 1.42 years. The remainder is operational. Higher Chronic risk and PM2.5 concentration were during construction.

Cumulative Construction HRA - Resident

	Cancer Risk	Chronic HI	Annual $PM_{2.5}$ (ug/m^3)
Stationary[1]	-	-	-
Roads	9.2	0.029	0.191
Rail	5.2	0.001	0.007
Total	**14.46**	**0.03**	**0.20**
Project Construction (highest risk)	3.10	0.00	0.08
Project Construction + Operations	3.56	0.00	0.08
Existing + Construction + Ops (Cancer Only)	**18.03**	--	--
Existing +Construction	--	**0.035**	**0.275**
BAAQMD Cumulative Thresholds	100.00	10.00	0.80
Exceeds Thresholds?	**No**	**No**	**No**

1. There are no stationary sources within 1,000 feet of the Alt E Residential receptor.

Cumulative Construction HRA - School

	Cancer Risk	Chronic HI	Annual $PM_{2.5}$ (ug/m^3)
Stationary[1]	27.4	0.12	0.04
Roads	12.1	0.034	0.21
Rail	7.2	0.002	0.01
Total	**46.69**	**0.15**	**0.26**
Project Construction (highest risk)	0.59	0.00	0.06
Project Construction + Operations	1.75	0.00	0.06
Existing + Construction + Ops (Cancer Only)	**48.44**	--	--
Existing +Construction	--	**0.157**	**0.32**
BAAQMD Cumulative Thresholds	100.00	10.00	0.80
Exceeds Thresholds?	**No**	**No**	**No**

1. The highest risk was taken.

Cumulative Construction HRA - Worker

	Cancer Risk	Chronic HI	Annual $PM_{2.5}$ (ug/m^3)
Stationary[1]	27.4	0.12	0.041
Roads	13.7	0.03	0.23
Rail	7.4	0.002	0.01
Total	**48.62**	**0.15**	**0.277**
Project Construction (highest risk)	0.63	0.01	0.08
Project Construction + Operations	0.77	0.01	0.08
Existing + Construction + Ops (Cancer Only)	**49.39**	--	--
Existing +Construction	--	**0.157**	**0.355**
BAAQMD Cumulative Thresholds	100.00	10.00	0.80
Exceeds Thresholds?	**No**	**No**	**No**

1. The highest risk was taken.

Cumulative Construction HRA - Recreational

	Cancer Risk	Chronic HI	Annual $PM_{2.5}$ (ug/m^3)
Stationary[1]	-	-	-
Roads	8.0	0.025	0.177
Rail	1.4	0.000	0.002
Total	**9.46**	**0.03**	**0.18**
Project Construction (highest risk)	0.03	0.000	0.00
Project Construction + Operations	0.03	0.000	0.00
Existing + Construction + Ops (Cancer Only)	**9.49**	--	--
Existing +Construction	--	**0.026**	**0.18**
BAAQMD Cumulative Thresholds	100.00	10.00	0.80
Exceeds Thresholds?	**No**	**No**	**No**

1. There are no stationary sources within 1,000 feet of the Alt E Receational receptor.

Cancer Risk

Workdays/week: 5 <-Update for each project

Days per Age Bin	3rd Tri	0<2	2<16	0<2 Total Days	0<2 Duration (years)	Total Duration
Start Date:	9/1/2027	12/1/2027				
End Date:	11/30/2027	2/1/2029				
Total Workdays	**65**	**307**		428	1.17	1.42

DPM Emissions

Offroad Heavy Duty Equipment Exhaust

Phase Name	Start	End	Workdays	Daily Usage (hours/day)	DPM: Daily Exhaust PM10 (lb/day)	DPM: Daily Emission Rate (g/s)	Days per Age Group: 3rd Tri	0<2	2<16	Weighted Emission Rate (g/s): 3rd Tri	0<2	2<16
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	0.054	0.00085	22	23	0	2.89E-04	6.40E-05	0.00E+00
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	0.019	0.00030	22	23	0	1.01E-04	2.23E-05	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	0.400	0.00630	0	23	0	0.00E+00	4.72E-04	0.00E+00
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	8	0.321	0.00505	0	23	0	0.00E+00	3.79E-04	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	0.030	0.00047	65	0	0	4.67E-04	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	8	-	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	0.054	0.00085	0	21	0	0.00E+00	5.85E-05	0.00E+00
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	0.019	0.00030	0	21	0	0.00E+00	2.04E-05	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	0.400	0.00630	0	42	0	0.00E+00	8.62E-04	0.00E+00
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	8	0.321	0.00505	0	42	0	0.00E+00	6.91E-04	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	0.232	0.00366	0	239	0	0.00E+00	2.85E-03	0.00E+00
Ardenwood-JarvisSW - 2029	-	-	0	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2029	-	-	0	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2029	-	-	0	8	0.341	0.00537	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2029	-	-	-	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2029	-	-	0	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	0.232	0.00366	0	22	0	0.00E+00	2.62E-04	0.00E+00
									COAST_EX	8.57E-04	2.57E-03	0.00E+00
									ARDN_EX	0.00E+00	3.11E-03	0.00E+00
									Total			

Notes:

1. The Sta emissions are tied to the ARDN_EX AERMOD source group.

Vendor/Haul Trucks Exhaust

Phase Name	Start	End	Workdays	Daily Usage (hours/day)	DPM: Daily Exhaust PM2.5 (lb/day)	DPM: Daily Emission Rate (g/s)	Days per Age Group: 3rd Tri	0<2	2<16	Weighted Emission Rate (g/s): 3rd Tri	0<2	2<16
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	1.88E-03	0.000030	22	23	0	1.00E-05	2.22E-06	0.00E+00
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	1.98E-04	0.000003	22	23	0	1.06E-06	2.34E-07	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	2.97E-04	0.000005	0	23	0	0.00E+00	3.51E-07	0.00E+00
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	8	1.98E-04	0.000003	0	23	0	0.00E+00	2.34E-07	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	4.96E-04	0.000008	65	0	0	7.81E-06	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	1.76E-03	0.000028	0	21	0	0.00E+00	1.89E-06	0.00E+00
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	1.86E-04	0.000003	0	21	0	0.00E+00	2.00E-07	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	2.78E-04	0.000004	0	42	0	0.00E+00	6.00E-07	0.00E+00
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	8	1.86E-04	0.000003	0	42	0	0.00E+00	4.00E-07	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	2.87E-03	0.000045	0	239	0	0.00E+00	3.52E-05	0.00E+00
Ardenwood-JarvisSW - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2029	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	2.66E-03	0.000042	0	22	0	0.00E+00	3.01E-06	0.00E+00
									Total	**1.89E-05**	**4.43E-05**	**0.00E+00**

Cancer Risk

Workdays/week: 5 <-Update for each project

Days per Age Bin	2<16	16<30		2<16	Duration (years)	Total Duration
Start Date:	9/1/2027	9/1/2027				
End Date:	2/1/2029	2/1/2029				
Total Workdays	**372**	**372**	**0**	519	1.42	1.42

DPM Emissions

Offroad Heavy Duty Equipment Exhaust

Phase Name	Start	End	Workdays	Daily Usage (hours/day)	DPM: Daily Exhaust PM2.5 (lb/day)	DPM: Daily Emission Rate (g/s)	Days per Age Group: 2<16	16<30		Weighted Emission Rate (g/s): 2<16	16<30	
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	0.054	0.00085	45	45	0	1.03E-04	1.03E-04	0.00E+00
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	0.019	0.00030	45	45	0	3.61E-05	3.61E-05	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	0.400	0.00630	23	23	0	3.89E-04	3.89E-04	0.00E+00
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	8	0.321	0.00505	23	23	0	3.12E-04	3.12E-04	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	0.030	0.00047	65	65	0	8.16E-05	8.16E-05	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	8	-	#VALUE!	-	-	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	0.054	0.00085	21	21	0	4.82E-05	4.82E-05	0.00E+00
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	0.019	0.00030	21	21	0	1.68E-05	1.68E-05	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	0.400	0.00630	42	42	0	7.11E-04	7.11E-04	0.00E+00
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	8	0.321	0.00505	42	42	0	5.70E-04	5.70E-04	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	8	0.000	0.00000	-	-	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	0.232	0.00366	239	239	0	2.35E-03	2.35E-03	0.00E+00
Ardenwood-JarvisSW - 2029	-	-	0	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2029	-	-	0	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2029	-	-	0	8	0.341	0.00537	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2029	-	-	-	8	0.000	0.00000	-	-	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2029	-	-	0	8	0.000	0.00000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	0.232	0.00366	22	22	0	2.16E-04	2.16E-04	0.00E+00
									COAST_EX	3.95E-03	3.95E-03	0.00E+00
									ARDN_EX	8.83E-04	8.83E-04	0.00E+00
									Total	**4.84E-03**	**4.84E-03**	**0.00E+00**

Vendor/Haul Trucks Exhaust

Phase Name	Start	End	Workdays	Daily Usage (hours/day)	DPM: Daily Exhaust PM2.5 (lb/day)	DPM: Daily Emission Rate (g/s)	Days per Age Group: 2<16	16<30		Weighted Emission Rate (g/s): 2<16	16<30	
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	1.88E-03	0.000030	45	45	0	3.59E-06	3.59E-06	0.00E+00
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	1.98E-04	0.000003	45	45	0	3.78E-07	3.78E-07	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	2.97E-04	0.000005	23	23	0	2.90E-07	2.90E-07	0.00E+00
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	8	1.98E-04	0.000003	23	23	0	1.93E-07	1.93E-07	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	4.96E-04	0.000008	65	65	0	1.36E-06	1.36E-06	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	8	#VALUE!	#VALUE!	-	-	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	1.76E-03	0.000028	21	21	0	1.56E-06	1.56E-06	0.00E+00
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	1.86E-04	0.000003	21	21	0	1.65E-07	1.65E-07	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	2.78E-04	0.000004	42	42	0	4.95E-07	4.95E-07	0.00E+00
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	8	1.86E-04	0.000003	42	42	0	3.30E-07	3.30E-07	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	8	#VALUE!	#VALUE!	-	-	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	2.87E-03	0.000045	239	239	0	2.90E-05	2.90E-05	0.00E+00
Ardenwood-JarvisSW - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2029	-	-	-	8	#VALUE!	#VALUE!	-	-	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	2.66E-03	0.000042	22	22	0	2.48E-06	2.48E-06	0.00E+00
									Total	**3.99E-05**	**3.99E-05**	**0.00E+00**

Chronic Risk (Non-Cancer)

Workdays/week	5		
Days per Age Bin	**Year 1**	**Year 2**	**Year 3**
Start Date:	9/1/2027	9/1/2028	9/2/2029
End Date:	8/31/2028	9/1/2029	2/1/2029
Total Workdays	**262**	**261**	**-152**

DPM Emissions

Offroad Heavy Duty Equipment Exhaust					**DPM**		**Days per CSTN Year**			**Weighted Emission Rate (g/s)**		
Phase Name	**Start**	**End**	**Workdays**	**Daily Usage (hours/day)**	**Daily Exhaust PM2.5 (lb/day)**	**Daily Emission Rate (g/s)**	**Year 1**	**Year 2**	**Year 3**	**Year 1**	**Year 2**	**Year 3**
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	0.054	0.001	45	0	0	1.47E-04	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	0.019	0.000	45	0	0	5.12E-05	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	0.400	0.006	23	0	0	5.53E-04	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	8	0.321	0.005	23	0	0	4.44E-04	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	0.030	0.000	65	0	0	1.16E-04	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	8	-	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	0.054	0.001	21	0	0	6.85E-05	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	0.019	0.000	21	0	0	2.39E-05	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	0.400	0.006	42	0	0	1.01E-03	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	8	0.321	0.005	42	0	0	8.10E-04	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	8	0.000	0.000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	0.232	0.004	153	86	0	2.14E-03	1.21E-03	0.00E+00
Ardenwood-JarvisSW - 2029	-	-	0	8	0.000	0.000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2029	-	-	0	8	0.000	0.000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2029	-	-	0	8	0.341	0.005	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2029	-	-	-	8	0.000	0.000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2029	-	-	0	8	0.000	0.000	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	0.232	0.004	0	22	0	0.00E+00	3.09E-04	0.00E+00
									COAST_EX	4.11E-03	1.51E-03	0.00E+00
									ARDN_EX	1.25E-03	0.00E+00	0.00E+00
										5.36E-03	**1.51E-03**	**0.00E+00**

Vendor/Haul Trucks Exhaust					**DPM**		**Days per CSTN Year**			**Weighted Emission Rate (g/s)**		
Phase Name	**Start**	**End**	**Workdays**	**Daily Usage (hours/day)**	**Daily Exhaust PM2.5 (lb/day)**	**Daily Emission Rate (g/s)**	**Year 1**	**Year 2**		**Year 1**	**Year 2**	**Year 3**
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	1.88E-03	2.97E-05	45	0	0	5.10E-06	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	1.98E-04	3.12E-06	45	0	0	5.36E-07	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	2.97E-04	4.68E-06	23	0	0	4.11E-07	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	8	1.98E-04	3.12E-06	23	0	0	2.74E-07	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	4.96E-04	7.81E-06	65	0	0	1.94E-06	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	1.76E-03	2.77E-05	21	0	0	2.22E-06	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	1.86E-04	2.92E-06	21	0	0	2.34E-07	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	2.78E-04	4.38E-06	42	0	0	7.03E-07	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	8	1.86E-04	2.92E-06	42	0	0	4.68E-07	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	2.87E-03	4.52E-05	153	86	0	2.64E-05	1.49E-05	0.00E+00
Ardenwood-JarvisSW - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisUtil - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 2029	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	2.66E-03	4.20E-05	0	22	0	0.00E+00	3.54E-06	0.00E+00
										1.07E-05	**1.84E-05**	**0.00E+00**

Annual PM2.5

Workdays/week	5	
Days per Age Bin	**Year 1**	**Year 2**	**Year 3**
Start Date:	9/1/2027	9/1/2028	
End Date:	8/31/2028	2/1/2029	
Total Workdays	**262**	**110**	

PM2.5 Emissions

Offroad Heavy Duty Equipment Exhaust

						PM2.5		Days per CSTN Year			Weighted Emission Rate (g/s)		
	Phase Name	**Start**	**End**	**Workdays**	**Daily Usage (hours/day)**	**Daily Exhaust PM2.5 (lb/day)**	**Daily Emission Rate (g/s)**	**Year 1**	**Year 2**	**Year 3**	**Year 1**	**Year 2**	**Year 3**
EXHAUST	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	0.05	8.55E-04	45	0	0	1.47E-04	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	0.02	2.98E-04	45	0	0	5.12E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	0.39	6.14E-03	23	0	0	5.39E-04	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	8	0.32	4.99E-03	23	0	0	4.38E-04	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	0.03	4.67E-04	65	0	0	1.16E-04	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2027	-	-	-	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	0.05	8.55E-04	21	0	0	6.85E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	0.02	2.98E-04	21	0	0	2.39E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	0.39	6.14E-03	42	0	0	9.84E-04	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	8	0.32	4.99E-03	42	0	0	7.99E-04	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2028	-	-	-	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	0.22	3.51E-03	153	86	0	2.05E-03	2.74E-03	0.00E+00
	Ardenwood-JarvisSW - 2029	-	-	0	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2029	-	-	0	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2029	-	-	0	8	0.33	5.20E-03	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	-	-	-	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2029	-	-	0	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	0.23	3.66E-03	0	22	0	0.00E+00	7.32E-04	0.00E+00
										COAST_EX	5.21E-03	3.48E-03	0.00E+00
										ARDN_EX	2.05E-03	3.48E-03	0.00E+00
									Total		**5.21E-03**	**3.48E-03**	**0.00E+00**

Vendor/Haul Truck Emissions

						PM2.5		Days per CSTN Year			Weighted Emission Rate (g/s)		
	Phase Name	**Start**	**End**	**Workdays**	**Daily Usage (hours/day)**	**Daily Exhaust PM2.5 (lb/day)**	**Daily Emission Rate (g/s)**	**Year 1**	**Year 2**	**Year 3**	**Year 1**	**Year 2**	**Year 3**
EXHAUST/DUST	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	1.18E-02	1.86E-04	45	0	0	3.20E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	1.25E-03	1.97E-05	45	0	0	3.39E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	1.88E-03	2.96E-05	23	0	0	2.60E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	8	1.25E-03	1.97E-05	23	0	0	1.73E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	3.13E-03	4.93E-05	65	0	0	1.22E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2027	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	1.17E-02	1.84E-04	21	0	0	1.48E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	1.24E-03	1.95E-05	21	0	0	1.57E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	1.86E-03	2.93E-05	42	0	0	4.70E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	8	1.24E-03	1.95E-05	42	0	0	3.13E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2028	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	1.91E-02	3.00E-04	153	86	0	1.75E-04	2.35E-04	0.00E+00
	Ardenwood-JarvisSW - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	1.89E-02	2.97E-04	0	22	0	0.00E+00	5.94E-05	0.00E+00
									Total		**2.51E-04**	**2.94E-04**	**0.00E+00**

Onsite Dust

						PM2.5		Days per CSTN Year			Weighted Emission Rate (g/s)		
	Phase Name	**Start**	**End**	**Workdays**	**Daily Usage (hours/day)**	**Daily Fugitive PM2.5 (lb/day)**	**Daily Emission Rate (g/s)**	**Year 1**	**Year 2**	**Year 3**	**Year 1**	**Year 2**	**Year 3**
DUST	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	0.84	1.33E-02	45	0	0	2.28E-03	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	0.00	0.00E+00	45	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	0.00	1.70E-05	23	0	0	1.49E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	8	0.00	0.00E+00	23	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	0.00	0.00E+00	65	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2027	-	-	-	8	0.00	8.67E-06	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	0.84	1.33E-02	21	0	0	1.06E-03	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	0.00	0.00E+00	21	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	0.00	1.70E-05	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2028	-	-	-	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	0.00	8.67E-06	0	86	0	0.00E+00	6.78E-06	0.00E+00
	Ardenwood-JarvisSW - 2029	-	-	0	8	0.00	6.65E-05	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2029	-	-	0	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2029	-	-	0	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	-	-	-	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2029	-	-	0	8	0.00	0.00E+00	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	0.00	8.67E-06	0	22	0	0.00E+00	1.73E-06	0.00E+00
										COAST_DST	3.34E-03	0.00E+00	0.00E+00
										ARDN_DST	0.00E+00	8.51E-06	0.00E+00
									Total		**3.34E-03**	**8.51E-06**	**0.00E+00**

Worker Emissions

						PM2.5		Days per CSTN Year			Weighted Emission Rate (g/s)		
	Phase Name	**Start**	**End**	**Workdays**	**Daily Usage (hours/day)**	**Daily Fugitive PM2.5 (lb/day)**	**Daily Emission Rate (g/s)**	**Year 1**	**Year 2**	**Year 3**	**Year 1**	**Year 2**	**Year 3**
EXHAUST/DUST	Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	8	3.30E-03	5.19E-05	45	0	0	8.92E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	8	8.24E-04	1.30E-05	45	0	0	2.23E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	8	1.65E-03	2.60E-05	23	0	0	2.28E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	8	7.75E-03	1.22E-04	23	0	0	1.07E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	8	2.31E-03	3.64E-05	65	0	0	9.02E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2027	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	8	3.29E-03	5.17E-05	21	0	0	4.15E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	8	8.21E-04	1.29E-05	21	0	0	1.04E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	8	1.64E-03	2.59E-05	42	0	0	4.15E-06	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	8	7.72E-03	1.22E-04	42	0	0	1.95E-05	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2028	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	8	9.86E-03	1.55E-04	153	86	0	9.07E-05	1.21E-04	0.00E+00
	Ardenwood-JarvisSW - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisUtil - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWPrep - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisRWProduction - 202	-	-	-	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisStr - 2029	-	-	0	8	#VALUE!	#VALUE!	0	0	0	0.00E+00	0.00E+00	0.00E+00
	Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	8	9.82E-03	1.55E-04	0	22	0	0.00E+00	3.09E-05	0.00E+00
									Total		**1.53E-04**	**1.52E-04**	**0.00E+00**

Haul Source Length (m)	Haul Source Length (mi)
1,434	0.89

MOBILE DPM EMISSIONS

						VENDOR TRUCKS				HAUL TRUCKS				
Phase Name	Start	End	Workdays	Year	Speed (MPH)	Trips per day	Trip Length (mi)	Exhaust EF (g/mi)	Exhaust Emissions (lb/day)	Trips per day	Trip Length (mi)	Exhaust EF (g/mi)	Exhaust Emissions (lb/day)	Total DPM Emissions (lb/day)
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	2027	10	2	0.89	2.54E-02	9.97E-05	36	0.89	2.52E-02	1.78E-03	1.88E-03
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	2027	10	0	0.89	2.54E-02	0.00E+00	4	0.89	2.52E-02	1.98E-04	1.98E-04
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	2027	10	0	0.89	2.54E-02	0.00E+00	6	0.89	2.52E-02	2.97E-04	2.97E-04
Ardenwood-JarvisRWProduction - 2027	12/1/2027	12/31/2027	23	2027	10	0	0.89	2.54E-02	0.00E+00	4	0.89	2.52E-02	1.98E-04	1.98E-04
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	2027	10	0	0.89	2.54E-02	0.00E+00	10	0.89	2.52E-02	4.96E-04	4.96E-04
Ardenwood-JarvisSta - 2027	-	-	-	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	0	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	2028	10	2	0.89	2.26E-02	8.88E-05	36	0.89	2.36E-02	1.67E-03	1.76E-03
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	2028	10	0	0.89	2.26E-02	0.00E+00	4	0.89	2.36E-02	1.86E-04	1.86E-04
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	2028	10	0	0.89	2.26E-02	0.00E+00	6	0.89	2.36E-02	2.78E-04	2.78E-04
Ardenwood-JarvisRWProduction - 2028	1/1/2028	3/1/2028	42	2028	10	0	0.89	2.26E-02	0.00E+00	4	0.89	2.36E-02	1.86E-04	1.86E-04
Ardenwood-JarvisStr - 2028	-	-	-	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	10	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	2028	10	4	0.89	2.26E-02	1.78E-04	58	0.89	2.36E-02	2.69E-03	2.87E-03
Ardenwood-JarvisSW - 2029	-	-	0	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	0	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisUtil - 2029	-	-	0	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	0	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWPrep - 2029	-	-	0	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	0	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWProduction - 2029	-	-	-	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	0	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisStr - 2029	-	-	0	#VALUE!	10	0	0.89	#VALUE!	#VALUE!	0	0.89	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	2029	10	4	0.89	2.02E-02	1.59E-04	58	0.89	2.20E-02	2.51E-03	2.66E-03

Haul Source Length (m)	Haul Source Length (mi)
850	0.89

MOBILE PM2.5 EMISSIONS

						VENDOR TRUCKS					
Phase Name	Start	End	Workdays	Year	Speed (MPH)	Trips per day	Trip Length (mi)	Exhaust EF (g/mi)	Dust EF (g/mi)	Exhaust Emissions (lb/day)	Dust Emissions (lb/day)
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	2027	10	2	0.89	2.54E-02	1.16E-01	9.97E-05	4.56E-04
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	2027	10	0	0.89	2.54E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	2027	10	0	0.89	2.54E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	2027	10	0	0.89	2.54E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	2027	10	0	0.89	2.54E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisSta - 2027	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	2028	10	2	0.89	2.26E-02	1.16E-01	8.88E-05	4.56E-04
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	2028	10	0	0.89	2.26E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	2028	10	0	0.89	2.26E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	2028	10	0	0.89	2.26E-02	1.16E-01	0.00E+00	0.00E+00
Ardenwood-JarvisStr - 2028	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	2028	10	4	0.89	2.26E-02	1.16E-01	1.78E-04	9.13E-04
Ardenwood-JarvisSW - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisUtil - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWPrep - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWProduction - 202	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisStr - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	2029	10	4	0.89	2.02E-02	1.16E-01	1.59E-04	9.13E-04

Haul Source Length (m)	Haul Source Length (mi)
850	0.89

MOBILE PM2.5 EMISSIONS

						HAUL TRUCKS					
Phase Name	Start	End	Workdays	Year	Speed (MPH)	Trips per day	Trip Length (mi)	Exhaust EF (g/mi)	Dust EF (g/mi)	Exhaust Emissions (lb/day)	Dust Emissions (lb/day)
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	2027	10	36	0.89	2.52E-02	1.34E-01	1.78E-03	9.48E-03
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	2027	10	4	0.89	2.52E-02	1.34E-01	1.98E-04	1.05E-03
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	2027	10	6	0.89	2.52E-02	1.34E-01	2.97E-04	1.58E-03
Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	2027	10	4	0.89	2.52E-02	1.34E-01	1.98E-04	1.05E-03
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	2027	10	10	0.89	2.52E-02	1.34E-01	4.96E-04	2.63E-03
Ardenwood-JarvisSta - 2027	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	2028	10	36	0.89	2.36E-02	1.34E-01	1.67E-03	9.49E-03
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	2028	10	4	0.89	2.36E-02	1.34E-01	1.86E-04	1.05E-03
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	2028	10	6	0.89	2.36E-02	1.34E-01	2.78E-04	1.58E-03
Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	2028	10	4	0.89	2.36E-02	1.34E-01	1.86E-04	1.05E-03
Ardenwood-JarvisStr - 2028	-	-	-	######	10	10	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	2028	10	58	0.89	2.36E-02	1.34E-01	2.69E-03	1.53E-02
Ardenwood-JarvisSW - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisUtil - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWPrep - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWProduction - 202	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisStr - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	2029	10	58	0.89	2.20E-02	1.34E-01	2.51E-03	1.53E-02

Haul Source Length (m)	Haul Source Length (mi)
850	0.89

MOBILE PM2.5 EMISSIONS

						WORKER VEHICLES (for PM2.5 Analysis Only)						PM2.5 EMISSIONS	
Phase Name	Start	End	Workdays	Year	Speed (MPH)	Trips per day	Trip Length (mi)	Exhaust EF (g/mi)	Dust EF (g/mi)	Exhaust Emissions (lb/day)	Dust Emissions (lb/day)	Total Truck Emissions (lb/day)	Total Worker Emissions (lb/day)
Ardenwood-JarvisSW - 2027	11/1/2027	12/31/2027	45	2027	10	20	0.89	5.22E-03	7.87E-02	2.05E-04	3.09E-03	1.18E-02	3.30E-03
Ardenwood-JarvisUtil - 2027	11/1/2027	12/31/2027	45	2027	10	5	0.89	5.22E-03	7.87E-02	5.12E-05	7.73E-04	1.25E-03	8.24E-04
Ardenwood-JarvisRWPrep - 2027	12/1/2027	12/31/2027	23	2027	10	10	0.89	5.22E-03	7.87E-02	1.02E-04	1.55E-03	1.88E-03	1.65E-03
Ardenwood-JarvisRWProduction - 202	12/1/2027	12/31/2027	23	2027	10	47	0.89	5.22E-03	7.87E-02	4.82E-04	7.27E-03	1.25E-03	7.75E-03
Ardenwood-JarvisStr - 2027	9/1/2027	12/1/2027	65	2027	10	14	0.89	5.22E-03	7.87E-02	1.43E-04	2.16E-03	3.13E-03	2.31E-03
Ardenwood-JarvisSta - 2027	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSW - 2028	1/1/2028	2/1/2028	21	2028	10	20	0.89	4.92E-03	7.87E-02	1.93E-04	3.09E-03	1.17E-02	3.29E-03
Ardenwood-JarvisUtil - 2028	1/1/2028	2/1/2028	21	2028	10	5	0.89	4.92E-03	7.87E-02	4.83E-05	7.73E-04	1.24E-03	8.21E-04
Ardenwood-JarvisRWPrep - 2028	1/1/2028	3/1/2028	42	2028	10	10	0.89	4.92E-03	7.87E-02	9.67E-05	1.55E-03	1.86E-03	1.64E-03
Ardenwood-JarvisRWProduction - 202	1/1/2028	3/1/2028	42	2028	10	47	0.89	4.92E-03	7.87E-02	4.54E-04	7.27E-03	1.24E-03	7.72E-03
Ardenwood-JarvisStr - 2028	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2028	2/1/2028	12/31/2028	239	2028	10	60	0.89	4.92E-03	7.87E-02	5.80E-04	9.28E-03	1.91E-02	9.86E-03
Ardenwood-JarvisSW - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisUtil - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWPrep - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisRWProduction - 202	-	-	-	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisStr - 2029	-	-	0	######	10	0	0.89	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Ardenwood-JarvisSta - 2029	1/1/2029	2/1/2029	22	2029	10	60	0.89	4.63E-03	7.87E-02	5.46E-04	9.28E-03	1.89E-02	9.82E-03

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**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/2/2023
** File: C:\Lakes\AERMOD View\CCJPA_2023\Coast CSTN HRA\Coast CSTN HRA.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\Coast CSTN HRA\Coast CSTN HRA.isc
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 1628997 Alameda_County
  POLLUTID PM
  FLAGPOLE 1.50
  RUNORNOT RUN
  ERRORFIL "Coast CSTN HRA.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION ARDN_EX     AREAPOLY   583388.500  4156597.183       5.000
** DESCRSRC Ardenwood Construction Area
  LOCATION ARDN_DST    AREAPOLY   583388.500  4156597.183       5.000
** DESCRSRC Ardenwood Construction Area dust
  LOCATION COAST_EX    AREAPOLY   583802.979  4156121.193       5.000
** DESCRSRC Coast construction line exhaust
  LOCATION COAST_DST   AREAPOLY   583802.979  4156121.193       5.000
** DESCRSRC Coast construction line dust
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONRD_T
** DESCRSRC Coast Haul trucks
** PREFIX
** Length of Side = 36.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
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** SZINIT = 3.16
** Nodes = 16
** 583786.918, 4156480.229, 5.00, 3.40, 16.74
** 583648.996, 4156560.224, 4.00, 3.40, 16.74
** 583550.612, 4156615.393, 5.00, 3.40, 16.74
** 583487.168, 4156637.460, 5.00, 3.40, 16.74
** 583412.690, 4156640.219, 5.00, 3.40, 16.74
** 583303.272, 4156623.668, 4.07, 3.40, 16.74
** 583192.934, 4156609.876, 4.00, 3.40, 16.74
** 583154.316, 4156608.037, 4.00, 3.40, 16.74
** 583041.220, 4156632.863, 4.00, 3.40, 16.74
** 583020.072, 4156611.715, 4.00, 3.40, 16.74
** 583002.602, 4156602.520, 4.00, 3.40, 16.74
** 582937.319, 4156508.733, 4.00, 3.40, 16.74
** 582919.576, 4156484.942, 4.00, 3.40, 16.74
** 583070.347, 4156383.273, 4.00, 3.40, 16.74
** 583091.284, 4156347.059, 4.00, 3.40, 16.74
** 583306.446, 4156418.523, 4.00, 3.40, 16.74
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LOCATION	L0000001	VOLUME	583771.348	4156489.260 5.00
LOCATION	L0000002	VOLUME	583740.207	4156507.322 4.24
LOCATION	L0000003	VOLUME	583709.065	4156525.384 4.00
LOCATION	L0000004	VOLUME	583677.924	4156543.446 4.00
LOCATION	L0000005	VOLUME	583646.765	4156561.475 4.00
LOCATION	L0000006	VOLUME	583615.365	4156579.083 4.08
LOCATION	L0000007	VOLUME	583583.964	4156596.691 4.67
LOCATION	L0000008	VOLUME	583552.564	4156614.298 5.00
LOCATION	L0000009	VOLUME	583518.724	4156626.484 5.00
LOCATION	L0000010	VOLUME	583484.580	4156637.556 5.00
LOCATION	L0000011	VOLUME	583448.605	4156638.889 5.00
LOCATION	L0000012	VOLUME	583412.630	4156640.210 5.00
LOCATION	L0000013	VOLUME	583377.035	4156634.826 5.00
LOCATION	L0000014	VOLUME	583341.440	4156629.442 4.72
LOCATION	L0000015	VOLUME	583305.845	4156624.057 4.00
LOCATION	L0000016	VOLUME	583270.132	4156619.526 4.00
LOCATION	L0000017	VOLUME	583234.410	4156615.061 4.00
LOCATION	L0000018	VOLUME	583198.688	4156610.595 4.00
LOCATION	L0000019	VOLUME	583162.767	4156608.440 4.00
LOCATION	L0000020	VOLUME	583127.417	4156613.942 4.00
LOCATION	L0000021	VOLUME	583092.254	4156621.660 4.00
LOCATION	L0000022	VOLUME	583057.091	4156629.379 4.00
LOCATION	L0000023	VOLUME	583027.254	4156618.897 4.00
LOCATION	L0000024	VOLUME	582999.117	4156597.513 4.00
LOCATION	L0000025	VOLUME	582978.550	4156567.966 4.00
LOCATION	L0000026	VOLUME	582957.983	4156538.420 4.00
LOCATION	L0000027	VOLUME	582937.416	4156508.873 4.00
LOCATION	L0000028	VOLUME	582924.676	4156481.503 4.00
LOCATION	L0000029	VOLUME	582954.523	4156461.376 4.00
LOCATION	L0000030	VOLUME	582984.371	4156441.248 4.00
LOCATION	L0000031	VOLUME	583014.219	4156421.121 4.00
LOCATION	L0000032	VOLUME	583044.067	4156400.994 4.00
LOCATION	L0000033	VOLUME	583072.501	4156379.547 4.00
LOCATION	L0000034	VOLUME	583090.519	4156348.381 4.00
LOCATION	L0000035	VOLUME	583123.999	4156357.925 4.00

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   LOCATION L0000036     VOLUME   583158.164 4156369.273 4.00
   LOCATION L0000037     VOLUME   583192.329 4156380.620 4.00
   LOCATION L0000038     VOLUME   583226.494 4156391.968 4.00
   LOCATION L0000039     VOLUME   583260.659 4156403.315 4.00
   LOCATION L0000040     VOLUME   583294.824 4156414.663 4.00
** End of LINE VOLUME Source ID = ONRD_T
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONRD_W
** DESCRSRC onroad worker emissions
** PREFIX
** Length of Side = 36.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.60
** SZINIT = 1.21
** Nodes = 16
** 583786.918, 4156480.229, 5.00, 1.30, 16.74
** 583648.996, 4156560.224, 4.00, 1.30, 16.74
** 583550.612, 4156615.393, 5.00, 1.30, 16.74
** 583487.168, 4156637.460, 5.00, 1.30, 16.74
** 583412.690, 4156640.219, 5.00, 1.30, 16.74
** 583303.272, 4156623.668, 4.07, 1.30, 16.74
** 583192.934, 4156609.876, 4.00, 1.30, 16.74
** 583154.316, 4156608.037, 4.00, 1.30, 16.74
** 583041.220, 4156632.863, 4.00, 1.30, 16.74
** 583020.072, 4156611.715, 4.00, 1.30, 16.74
** 583002.602, 4156602.520, 4.00, 1.30, 16.74
** 582937.319, 4156508.733, 4.00, 1.30, 16.74
** 582919.576, 4156484.942, 4.00, 1.30, 16.74
** 583070.347, 4156383.273, 4.00, 1.30, 16.74
** 583091.284, 4156347.059, 4.00, 1.30, 16.74
** 583306.446, 4156418.523, 4.00, 1.30, 16.74
** ----------------------------------------------------------------
   LOCATION L0000420     VOLUME   583771.348 4156489.260 5.00
   LOCATION L0000421     VOLUME   583740.207 4156507.322 4.24
   LOCATION L0000422     VOLUME   583709.065 4156525.384 4.00
   LOCATION L0000423     VOLUME   583677.924 4156543.446 4.00
   LOCATION L0000424     VOLUME   583646.765 4156561.475 4.00
   LOCATION L0000425     VOLUME   583615.365 4156579.083 4.08
   LOCATION L0000426     VOLUME   583583.964 4156596.691 4.67
   LOCATION L0000427     VOLUME   583552.564 4156614.298 5.00
   LOCATION L0000428     VOLUME   583518.724 4156626.484 5.00
   LOCATION L0000429     VOLUME   583484.580 4156637.556 5.00
   LOCATION L0000430     VOLUME   583448.605 4156638.889 5.00
   LOCATION L0000431     VOLUME   583412.630 4156640.210 5.00
   LOCATION L0000432     VOLUME   583377.035 4156634.826 5.00
   LOCATION L0000433     VOLUME   583341.440 4156629.442 4.72
   LOCATION L0000434     VOLUME   583305.845 4156624.057 4.00
   LOCATION L0000435     VOLUME   583270.132 4156619.526 4.00
   LOCATION L0000436     VOLUME   583234.410 4156615.061 4.00
   LOCATION L0000437     VOLUME   583198.688 4156610.595 4.00
   LOCATION L0000438     VOLUME   583162.767 4156608.440 4.00
   LOCATION L0000439     VOLUME   583127.417 4156613.942 4.00
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  LOCATION L0000440    VOLUME   583092.254 4156621.660 4.00
  LOCATION L0000441    VOLUME   583057.091 4156629.379 4.00
  LOCATION L0000442    VOLUME   583027.254 4156618.897 4.00
  LOCATION L0000443    VOLUME   582999.117 4156597.513 4.00
  LOCATION L0000444    VOLUME   582978.550 4156567.966 4.00
  LOCATION L0000445    VOLUME   582957.983 4156538.420 4.00
  LOCATION L0000446    VOLUME   582937.416 4156508.873 4.00
  LOCATION L0000447    VOLUME   582924.676 4156481.503 4.00
  LOCATION L0000448    VOLUME   582954.523 4156461.376 4.00
  LOCATION L0000449    VOLUME   582984.371 4156441.248 4.00
  LOCATION L0000450    VOLUME   583014.219 4156421.121 4.00
  LOCATION L0000451    VOLUME   583044.067 4156400.994 4.00
  LOCATION L0000452    VOLUME   583072.501 4156379.547 4.00
  LOCATION L0000453    VOLUME   583090.519 4156348.381 4.00
  LOCATION L0000454    VOLUME   583123.999 4156357.925 4.00
  LOCATION L0000455    VOLUME   583158.164 4156369.273 4.00
  LOCATION L0000456    VOLUME   583192.329 4156380.620 4.00
  LOCATION L0000457    VOLUME   583226.494 4156391.968 4.00
  LOCATION L0000458    VOLUME   583260.659 4156403.315 4.00
  LOCATION L0000459    VOLUME   583294.824 4156414.663 4.00
** End of LINE VOLUME Source ID = ONRD_W
** Source Parameters **
  SRCPARAM ARDN_EX     0.0000476707     5.000        6     2.150
  AREAVERT ARDN_EX     583388.500 4156597.183 583245.326 4156573.013
  AREAVERT ARDN_EX     583286.984 4156432.255 583316.842 4156420.597
  AREAVERT ARDN_EX     583413.666 4156454.435 583401.154 4156525.952
  SRCPARAM ARDN_DST    0.0000476707     0.000        6     1.000
  AREAVERT ARDN_DST    583388.500 4156597.183 583245.326 4156573.013
  AREAVERT ARDN_DST    583286.984 4156432.255 583316.842 4156420.597
  AREAVERT ARDN_DST    583413.666 4156454.435 583401.154 4156525.952
  SRCPARAM COAST_EX    0.0000169267     5.000        79     2.150
  AREAVERT COAST_EX    583802.979 4156121.193 583827.972 4156103.874
  AREAVERT COAST_EX    583810.063 4156075.338 583815.180 4156058.609
  AREAVERT COAST_EX    583834.073 4156047.589 583819.313 4156024.956
  AREAVERT COAST_EX    583793.335 4156037.158 583783.889 4156033.025
  AREAVERT COAST_EX    583738.427 4155964.538 583671.121 4155863.185
  AREAVERT COAST_EX    583619.756 4155784.858 583587.087 4155735.264
  AREAVERT COAST_EX    583538.083 4155660.282 583500.100 4155603.209
  AREAVERT COAST_EX    583476.878 4155618.560 583481.994 4155635.288
  AREAVERT COAST_EX    583463.298 4155649.852 583476.484 4155665.202
  AREAVERT COAST_EX    583497.345 4155660.872 583520.961 4155695.116
  AREAVERT COAST_EX    583540.838 4155724.833 583520.174 4155841.537
  AREAVERT COAST_EX    583500.100 4155960.012 583480.617 4156071.598
  AREAVERT COAST_EX    583463.495 4156169.015 583459.756 4156189.876
  AREAVERT COAST_EX    583444.405 4156177.084 583425.119 4156292.804
  AREAVERT COAST_EX    583423.544 4156301.070 583438.304 4156315.830
  AREAVERT COAST_EX    583414.098 4156454.182 583387.923 4156599.028
  AREAVERT COAST_EX    583367.849 4156711.402 583349.153 4156827.712
  AREAVERT COAST_EX    583322.585 4156983.186 583309.202 4157058.167
  AREAVERT COAST_EX    583289.128 4157169.951 583269.842 4157275.240
  AREAVERT COAST_EX    583259.018 4157336.642 583278.107 4157339.201
  AREAVERT COAST_EX    583289.325 4157286.851 583297.000 4157251.033
  AREAVERT COAST_EX    583300.543 4157233.518 583309.202 4157188.253
  AREAVERT COAST_EX    583316.484 4157148.499 583329.473 4157082.177
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AREAVERT COAST_EX     583336.951 4157043.604 583350.727 4156968.425
AREAVERT COAST_EX     583365.094 4156894.822 583374.344 4156845.424
AREAVERT COAST_EX     583385.168 4156785.793 583393.630 4156739.545
AREAVERT COAST_EX     583387.136 4156711.599 583399.731 4156644.489
AREAVERT COAST_EX     583413.507 4156560.652 583424.135 4156500.430
AREAVERT COAST_EX     583437.320 4156426.039 583453.064 4156333.739
AREAVERT COAST_EX     583464.873 4156343.973 583476.878 4156284.145
AREAVERT COAST_EX     583490.457 4156219.594 583473.532 4156203.849
AREAVERT COAST_EX     583486.127 4156138.314 583497.739 4156071.598
AREAVERT COAST_EX     583507.775 4156015.707 583521.552 4155937.773
AREAVERT COAST_EX     583538.280 4155847.638 583556.976 4155742.939
AREAVERT COAST_EX     583609.325 4155823.825 583642.978 4155875.780
AREAVERT COAST_EX     583678.206 4155930.688 583729.375 4156009.606
AREAVERT COAST_EX     583759.485 4156057.625 583760.273 4156062.939
AREAVERT COAST_EX     583755.746 4156067.859 583734.295 4156082.029
AREAVERT COAST_EX     583744.135 4156097.970 583769.129 4156084.194
AREAVERT COAST_EX     583780.937 4156087.146
SRCPARAM COAST_DST    0.0000169267     0.000        79     1.000
AREAVERT COAST_DST    583802.979 4156121.193 583827.972 4156103.874
AREAVERT COAST_DST    583810.063 4156075.338 583815.180 4156058.609
AREAVERT COAST_DST    583834.073 4156047.589 583819.313 4156024.956
AREAVERT COAST_DST    583793.335 4156037.158 583783.889 4156033.025
AREAVERT COAST_DST    583738.427 4155964.538 583671.121 4155863.185
AREAVERT COAST_DST    583619.756 4155784.858 583587.087 4155735.264
AREAVERT COAST_DST    583538.083 4155660.282 583500.100 4155603.209
AREAVERT COAST_DST    583476.878 4155618.560 583481.994 4155635.288
AREAVERT COAST_DST    583463.298 4155649.852 583476.484 4155665.202
AREAVERT COAST_DST    583497.345 4155660.872 583520.961 4155695.116
AREAVERT COAST_DST    583540.838 4155724.833 583520.174 4155841.537
AREAVERT COAST_DST    583500.100 4155960.012 583480.617 4156071.598
AREAVERT COAST_DST    583463.495 4156169.015 583459.756 4156189.876
AREAVERT COAST_DST    583444.405 4156177.084 583425.119 4156292.804
AREAVERT COAST_DST    583423.544 4156301.070 583438.304 4156315.830
AREAVERT COAST_DST    583414.098 4156454.182 583387.923 4156599.028
AREAVERT COAST_DST    583367.849 4156711.402 583349.153 4156827.712
AREAVERT COAST_DST    583322.585 4156983.186 583309.202 4157058.167
AREAVERT COAST_DST    583289.128 4157169.951 583269.842 4157275.240
AREAVERT COAST_DST    583259.018 4157336.642 583278.107 4157339.201
AREAVERT COAST_DST    583289.325 4157286.851 583297.000 4157251.033
AREAVERT COAST_DST    583300.543 4157233.518 583309.202 4157188.253
AREAVERT COAST_DST    583316.484 4157148.499 583329.473 4157082.177
AREAVERT COAST_DST    583336.951 4157043.604 583350.727 4156968.425
AREAVERT COAST_DST    583365.094 4156894.822 583374.344 4156845.424
AREAVERT COAST_DST    583385.168 4156785.793 583393.630 4156739.545
AREAVERT COAST_DST    583387.136 4156711.599 583399.731 4156644.489
AREAVERT COAST_DST    583413.507 4156560.652 583424.135 4156500.430
AREAVERT COAST_DST    583437.320 4156426.039 583453.064 4156333.739
AREAVERT COAST_DST    583464.873 4156343.973 583476.878 4156284.145
AREAVERT COAST_DST    583490.457 4156219.594 583473.532 4156203.849
AREAVERT COAST_DST    583486.127 4156138.314 583497.739 4156071.598
AREAVERT COAST_DST    583507.775 4156015.707 583521.552 4155937.773
AREAVERT COAST_DST    583538.280 4155847.638 583556.976 4155742.939
AREAVERT COAST_DST    583609.325 4155823.825 583642.978 4155875.780
AREAVERT COAST_DST    583678.206 4155930.688 583729.375 4156009.606
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  AREAVERT COAST_DST    583759.485 4156057.625 583760.273 4156062.939
  AREAVERT COAST_DST    583755.746 4156067.859 583734.295 4156082.029
  AREAVERT COAST_DST    583744.135 4156097.970 583769.129 4156084.194
  AREAVERT COAST_DST    583780.937 4156087.146
** LINE VOLUME Source ID = ONRD_T
  SRCPARAM L0000001       0.025     3.40     16.74     3.16
  SRCPARAM L0000002       0.025     3.40     16.74     3.16
  SRCPARAM L0000003       0.025     3.40     16.74     3.16
  SRCPARAM L0000004       0.025     3.40     16.74     3.16
  SRCPARAM L0000005       0.025     3.40     16.74     3.16
  SRCPARAM L0000006       0.025     3.40     16.74     3.16
  SRCPARAM L0000007       0.025     3.40     16.74     3.16
  SRCPARAM L0000008       0.025     3.40     16.74     3.16
  SRCPARAM L0000009       0.025     3.40     16.74     3.16
  SRCPARAM L0000010       0.025     3.40     16.74     3.16
  SRCPARAM L0000011       0.025     3.40     16.74     3.16
  SRCPARAM L0000012       0.025     3.40     16.74     3.16
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  SRCPARAM L0000014       0.025     3.40     16.74     3.16
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  SRCPARAM L0000019       0.025     3.40     16.74     3.16
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  SRCPARAM L0000029       0.025     3.40     16.74     3.16
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  SRCPARAM L0000031       0.025     3.40     16.74     3.16
  SRCPARAM L0000032       0.025     3.40     16.74     3.16
  SRCPARAM L0000033       0.025     3.40     16.74     3.16
  SRCPARAM L0000034       0.025     3.40     16.74     3.16
  SRCPARAM L0000035       0.025     3.40     16.74     3.16
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  SRCPARAM L0000037       0.025     3.40     16.74     3.16
  SRCPARAM L0000038       0.025     3.40     16.74     3.16
  SRCPARAM L0000039       0.025     3.40     16.74     3.16
  SRCPARAM L0000040       0.025     3.40     16.74     3.16
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** LINE VOLUME Source ID = ONRD_W
  SRCPARAM L0000420       0.025     1.30     16.74     1.21
  SRCPARAM L0000421       0.025     1.30     16.74     1.21
  SRCPARAM L0000422       0.025     1.30     16.74     1.21
  SRCPARAM L0000423       0.025     1.30     16.74     1.21
  SRCPARAM L0000424       0.025     1.30     16.74     1.21
  SRCPARAM L0000425       0.025     1.30     16.74     1.21
  SRCPARAM L0000426       0.025     1.30     16.74     1.21
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   SRCPARAM L0000427       0.025     1.30    16.74     1.21
   SRCPARAM L0000428       0.025     1.30    16.74     1.21
   SRCPARAM L0000429       0.025     1.30    16.74     1.21
   SRCPARAM L0000430       0.025     1.30    16.74     1.21
   SRCPARAM L0000431       0.025     1.30    16.74     1.21
   SRCPARAM L0000432       0.025     1.30    16.74     1.21
   SRCPARAM L0000433       0.025     1.30    16.74     1.21
   SRCPARAM L0000434       0.025     1.30    16.74     1.21
   SRCPARAM L0000435       0.025     1.30    16.74     1.21
   SRCPARAM L0000436       0.025     1.30    16.74     1.21
   SRCPARAM L0000437       0.025     1.30    16.74     1.21
   SRCPARAM L0000438       0.025     1.30    16.74     1.21
   SRCPARAM L0000439       0.025     1.30    16.74     1.21
   SRCPARAM L0000440       0.025     1.30    16.74     1.21
   SRCPARAM L0000441       0.025     1.30    16.74     1.21
   SRCPARAM L0000442       0.025     1.30    16.74     1.21
   SRCPARAM L0000443       0.025     1.30    16.74     1.21
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   SRCPARAM L0000448       0.025     1.30    16.74     1.21
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   SRCPARAM L0000451       0.025     1.30    16.74     1.21
   SRCPARAM L0000452       0.025     1.30    16.74     1.21
   SRCPARAM L0000453       0.025     1.30    16.74     1.21
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   SRCPARAM L0000459       0.025     1.30    16.74     1.21
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** AERMOD Receptor Pathway
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**
RE STARTING
   INCLUDED "Coast CSTN HRA.rou"
RE FINISHED
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** AERMOD Meteorology Pathway
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ME STARTING
   SURFFILE "Coast CSTN HRA.SFC"
   PROFFILE "Coast CSTN HRA.PFL"
   SURFDATA 93228 2014 Hayward_Airport
   UAIRDATA -1 2014
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   PROFBASE 13.1 METERS
ME FINISHED
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** AERMOD Output Pathway
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OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ARDN_DST "Coast CSTN HRA.AD\PE00G001.PLT" 31
   PLOTFILE PERIOD ARDN_EX "Coast CSTN HRA.AD\PE00G002.PLT" 32
   PLOTFILE PERIOD COAST_DS "Coast CSTN HRA.AD\PE00G003.PLT" 33
   PLOTFILE PERIOD COAST_EX "Coast CSTN HRA.AD\PE00G004.PLT" 34
   PLOTFILE PERIOD ONRD_T "Coast CSTN HRA.AD\PE00G005.PLT" 35
   PLOTFILE PERIOD ONRD_W "Coast CSTN HRA.AD\PE00G006.PLT" 36
   SUMMFILE "Coast CSTN HRA.sum"
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/30/2023
** File: C:\Lakes\AERMOD View\CCJPA_2023\Coast CSTN_Alt E\Coast CSTN_Alt E.ADI
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** AERMOD Control Pathway
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CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 1628997 Alameda_County
   POLLUTID PM
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL "Coast CSTN_Alt E.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONRD_T
** DESCRSRC Coast Haul trucks
** PREFIX
** Length of Side = 36.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 16
** 583786.918, 4156480.229, 5.00, 3.40, 16.74
** 583648.996, 4156560.224, 4.00, 3.40, 16.74
** 583550.612, 4156615.393, 5.00, 3.40, 16.74
** 583487.168, 4156637.460, 5.00, 3.40, 16.74
** 583412.690, 4156640.219, 5.00, 3.40, 16.74
** 583303.272, 4156623.668, 4.07, 3.40, 16.74
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** 583192.934, 4156609.876, 4.00, 3.40, 16.74
** 583154.316, 4156608.037, 4.00, 3.40, 16.74
** 583041.220, 4156632.863, 4.00, 3.40, 16.74
** 583020.072, 4156611.715, 4.00, 3.40, 16.74
** 583002.602, 4156602.520, 4.00, 3.40, 16.74
** 582937.319, 4156508.733, 4.00, 3.40, 16.74
** 582919.576, 4156484.942, 4.00, 3.40, 16.74
** 583070.347, 4156383.273, 4.00, 3.40, 16.74
** 583091.284, 4156347.059, 4.00, 3.40, 16.74
** 583306.446, 4156418.523, 4.00, 3.40, 16.74
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LOCATION L0000001 VOLUME 583771.348 4156489.260 5.00
LOCATION L0000002 VOLUME 583740.207 4156507.322 4.24
LOCATION L0000003 VOLUME 583709.065 4156525.384 4.00
LOCATION L0000004 VOLUME 583677.924 4156543.446 4.00
LOCATION L0000005 VOLUME 583646.765 4156561.475 4.00
LOCATION L0000006 VOLUME 583615.365 4156579.083 4.08
LOCATION L0000007 VOLUME 583583.964 4156596.691 4.67
LOCATION L0000008 VOLUME 583552.564 4156614.298 5.00
LOCATION L0000009 VOLUME 583518.724 4156626.484 5.00
LOCATION L0000010 VOLUME 583484.580 4156637.556 5.00
LOCATION L0000011 VOLUME 583448.605 4156638.889 5.00
LOCATION L0000012 VOLUME 583412.630 4156640.210 5.00
LOCATION L0000013 VOLUME 583377.035 4156634.826 5.00
LOCATION L0000014 VOLUME 583341.440 4156629.442 4.72
LOCATION L0000015 VOLUME 583305.845 4156624.057 4.00
LOCATION L0000016 VOLUME 583270.132 4156619.526 4.00
LOCATION L0000017 VOLUME 583234.410 4156615.061 4.00
LOCATION L0000018 VOLUME 583198.688 4156610.595 4.00
LOCATION L0000019 VOLUME 583162.767 4156608.440 4.00
LOCATION L0000020 VOLUME 583127.417 4156613.942 4.00
LOCATION L0000021 VOLUME 583092.254 4156621.660 4.00
LOCATION L0000022 VOLUME 583057.091 4156629.379 4.00
LOCATION L0000023 VOLUME 583027.254 4156618.897 4.00
LOCATION L0000024 VOLUME 582999.117 4156597.513 4.00
LOCATION L0000025 VOLUME 582978.550 4156567.966 4.00
LOCATION L0000026 VOLUME 582957.983 4156538.420 4.00
LOCATION L0000027 VOLUME 582937.416 4156508.873 4.00
LOCATION L0000028 VOLUME 582924.676 4156481.503 4.00
LOCATION L0000029 VOLUME 582954.523 4156461.376 4.00
LOCATION L0000030 VOLUME 582984.371 4156441.248 4.00
LOCATION L0000031 VOLUME 583014.219 4156421.121 4.00
LOCATION L0000032 VOLUME 583044.067 4156400.994 4.00
LOCATION L0000033 VOLUME 583072.501 4156379.547 4.00
LOCATION L0000034 VOLUME 583090.519 4156348.381 4.00
LOCATION L0000035 VOLUME 583123.999 4156357.925 4.00
LOCATION L0000036 VOLUME 583158.164 4156369.273 4.00
LOCATION L0000037 VOLUME 583192.329 4156380.620 4.00
LOCATION L0000038 VOLUME 583226.494 4156391.968 4.00
LOCATION L0000039 VOLUME 583260.659 4156403.315 4.00
LOCATION L0000040 VOLUME 583294.824 4156414.663 4.00
** End of LINE VOLUME Source ID = ONRD_T
** ----------
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = ONRD_W
** DESCRSRC onroad worker emissions
** PREFIX
** Length of Side = 36.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.60
** SZINIT = 1.21
** Nodes = 16
** 583786.918, 4156480.229, 5.00, 1.30, 16.74
** 583648.996, 4156560.224, 4.00, 1.30, 16.74
** 583550.612, 4156615.393, 5.00, 1.30, 16.74
** 583487.168, 4156637.460, 5.00, 1.30, 16.74
** 583412.690, 4156640.219, 5.00, 1.30, 16.74
** 583303.272, 4156623.668, 4.07, 1.30, 16.74
** 583192.934, 4156609.876, 4.00, 1.30, 16.74
** 583154.316, 4156608.037, 4.00, 1.30, 16.74
** 583041.220, 4156632.863, 4.00, 1.30, 16.74
** 583020.072, 4156611.715, 4.00, 1.30, 16.74
** 583002.602, 4156602.520, 4.00, 1.30, 16.74
** 582937.319, 4156508.733, 4.00, 1.30, 16.74
** 582919.576, 4156484.942, 4.00, 1.30, 16.74
** 583070.347, 4156383.273, 4.00, 1.30, 16.74
** 583091.284, 4156347.059, 4.00, 1.30, 16.74
** 583306.446, 4156418.523, 4.00, 1.30, 16.74
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  LOCATION L0000420    VOLUME   583771.348 4156489.260 5.00
  LOCATION L0000421    VOLUME   583740.207 4156507.322 4.24
  LOCATION L0000422    VOLUME   583709.065 4156525.384 4.00
  LOCATION L0000423    VOLUME   583677.924 4156543.446 4.00
  LOCATION L0000424    VOLUME   583646.765 4156561.475 4.00
  LOCATION L0000425    VOLUME   583615.365 4156579.083 4.08
  LOCATION L0000426    VOLUME   583583.964 4156596.691 4.67
  LOCATION L0000427    VOLUME   583552.564 4156614.298 5.00
  LOCATION L0000428    VOLUME   583518.724 4156626.484 5.00
  LOCATION L0000429    VOLUME   583484.580 4156637.556 5.00
  LOCATION L0000430    VOLUME   583448.605 4156638.889 5.00
  LOCATION L0000431    VOLUME   583412.630 4156640.210 5.00
  LOCATION L0000432    VOLUME   583377.035 4156634.826 5.00
  LOCATION L0000433    VOLUME   583341.440 4156629.442 4.72
  LOCATION L0000434    VOLUME   583305.845 4156624.057 4.00
  LOCATION L0000435    VOLUME   583270.132 4156619.526 4.00
  LOCATION L0000436    VOLUME   583234.410 4156615.061 4.00
  LOCATION L0000437    VOLUME   583198.688 4156610.595 4.00
  LOCATION L0000438    VOLUME   583162.767 4156608.440 4.00
  LOCATION L0000439    VOLUME   583127.417 4156613.942 4.00
  LOCATION L0000440    VOLUME   583092.254 4156621.660 4.00
  LOCATION L0000441    VOLUME   583057.091 4156629.379 4.00
  LOCATION L0000442    VOLUME   583027.254 4156618.897 4.00
  LOCATION L0000443    VOLUME   582999.117 4156597.513 4.00
  LOCATION L0000444    VOLUME   582978.550 4156567.966 4.00
  LOCATION L0000445    VOLUME   582957.983 4156538.420 4.00
  LOCATION L0000446    VOLUME   582937.416 4156508.873 4.00
  LOCATION L0000447    VOLUME   582924.676 4156481.503 4.00
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  LOCATION L0000448     VOLUME   582954.523 4156461.376 4.00
  LOCATION L0000449     VOLUME   582984.371 4156441.248 4.00
  LOCATION L0000450     VOLUME   583014.219 4156421.121 4.00
  LOCATION L0000451     VOLUME   583044.067 4156400.994 4.00
  LOCATION L0000452     VOLUME   583072.501 4156379.547 4.00
  LOCATION L0000453     VOLUME   583090.519 4156348.381 4.00
  LOCATION L0000454     VOLUME   583123.999 4156357.925 4.00
  LOCATION L0000455     VOLUME   583158.164 4156369.273 4.00
  LOCATION L0000456     VOLUME   583192.329 4156380.620 4.00
  LOCATION L0000457     VOLUME   583226.494 4156391.968 4.00
  LOCATION L0000458     VOLUME   583260.659 4156403.315 4.00
  LOCATION L0000459     VOLUME   583294.824 4156414.663 4.00
** End of LINE VOLUME Source ID = ONRD_W
  LOCATION ARDN_EX      AREAPOLY   583235.261  4156587.939       4.000
  LOCATION ARDN_DST     AREAPOLY   583235.261  4156587.939       4.000
** DESCRSRC Dust
  LOCATION COAST_DST    AREAPOLY   583607.877  4155762.287       4.880
** DESCRSRC Coast construction line dust
  LOCATION COAST_EX     AREAPOLY   583607.877  4155762.287       4.880
** DESCRSRC Coast construction line dust
** Source Parameters **
** LINE VOLUME Source ID = ONRD_T
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  SRCPARAM L0000002       0.025     3.40     16.74     3.16
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  SRCPARAM L0000006       0.025     3.40     16.74     3.16
  SRCPARAM L0000007       0.025     3.40     16.74     3.16
  SRCPARAM L0000008       0.025     3.40     16.74     3.16
  SRCPARAM L0000009       0.025     3.40     16.74     3.16
  SRCPARAM L0000010       0.025     3.40     16.74     3.16
  SRCPARAM L0000011       0.025     3.40     16.74     3.16
  SRCPARAM L0000012       0.025     3.40     16.74     3.16
  SRCPARAM L0000013       0.025     3.40     16.74     3.16
  SRCPARAM L0000014       0.025     3.40     16.74     3.16
  SRCPARAM L0000015       0.025     3.40     16.74     3.16
  SRCPARAM L0000016       0.025     3.40     16.74     3.16
  SRCPARAM L0000017       0.025     3.40     16.74     3.16
  SRCPARAM L0000018       0.025     3.40     16.74     3.16
  SRCPARAM L0000019       0.025     3.40     16.74     3.16
  SRCPARAM L0000020       0.025     3.40     16.74     3.16
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  SRCPARAM L0000026       0.025     3.40     16.74     3.16
  SRCPARAM L0000027       0.025     3.40     16.74     3.16
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  SRCPARAM L0000029       0.025     3.40     16.74     3.16
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  SRCPARAM L0000031       0.025     3.40     16.74     3.16
  SRCPARAM L0000032       0.025     3.40     16.74     3.16
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  SRCPARAM L0000033       0.025     3.40     16.74     3.16
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  SRCPARAM L0000035       0.025     3.40     16.74     3.16
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  SRCPARAM L0000037       0.025     3.40     16.74     3.16
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  SRCPARAM L0000039       0.025     3.40     16.74     3.16
  SRCPARAM L0000040       0.025     3.40     16.74     3.16
** ----------------------------------------------------------------
** LINE VOLUME Source ID = ONRD_W
  SRCPARAM L0000420       0.025     1.30     16.74     1.21
  SRCPARAM L0000421       0.025     1.30     16.74     1.21
  SRCPARAM L0000422       0.025     1.30     16.74     1.21
  SRCPARAM L0000423       0.025     1.30     16.74     1.21
  SRCPARAM L0000424       0.025     1.30     16.74     1.21
  SRCPARAM L0000425       0.025     1.30     16.74     1.21
  SRCPARAM L0000426       0.025     1.30     16.74     1.21
  SRCPARAM L0000427       0.025     1.30     16.74     1.21
  SRCPARAM L0000428       0.025     1.30     16.74     1.21
  SRCPARAM L0000429       0.025     1.30     16.74     1.21
  SRCPARAM L0000430       0.025     1.30     16.74     1.21
  SRCPARAM L0000431       0.025     1.30     16.74     1.21
  SRCPARAM L0000432       0.025     1.30     16.74     1.21
  SRCPARAM L0000433       0.025     1.30     16.74     1.21
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  SRCPARAM L0000457       0.025     1.30     16.74     1.21
  SRCPARAM L0000458       0.025     1.30     16.74     1.21
  SRCPARAM L0000459       0.025     1.30     16.74     1.21
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  SRCPARAM ARDN_EX     0.0000128069     5.000       36     2.150
  AREAVERT ARDN_EX     583235.261 4156587.939 583387.172 4156587.939
  AREAVERT ARDN_EX     583408.874 4156597.860 583410.114 4156585.459
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AREAVERT ARDN_EX     583430.576 4156543.296 583432.436 4156532.135
AREAVERT ARDN_EX     583439.876 4156470.130 583451.657 4156461.449
AREAVERT ARDN_EX     583458.478 4156466.410 583500.641 4156522.214
AREAVERT ARDN_EX     583533.504 4156592.279 583529.163 4156607.781
AREAVERT ARDN_EX     583560.166 4156595.380 583548.385 4156588.559
AREAVERT ARDN_EX     583521.723 4156528.415 583511.182 4156513.533
AREAVERT ARDN_EX     583568.846 4156471.370 583495.681 4156377.123
AREAVERT ARDN_EX     583580.007 4156295.897 583523.583 4156245.053
AREAVERT ARDN_EX     583633.331 4156167.547 583628.991 4156163.206
AREAVERT ARDN_EX     583521.723 4156233.272 583480.180 4156197.309
AREAVERT ARDN_EX     583458.478 4156160.106 583359.890 4156072.059
AREAVERT ARDN_EX     583375.391 4155959.830 583363.611 4155964.791
AREAVERT ARDN_EX     583346.249 4156083.220 583405.774 4156138.404
AREAVERT ARDN_EX     583329.508 4156227.691 583422.515 4156317.598
AREAVERT ARDN_EX     583394.613 4156450.288 583307.806 4156418.046
AREAVERT ARDN_EX     583295.405 4156428.587 583276.804 4156428.587
SRCPARAM ARDN_DST    0.0000128069     0.000        36     1.000
AREAVERT ARDN_DST    583235.261 4156587.939 583387.172 4156587.939
AREAVERT ARDN_DST    583408.874 4156597.860 583410.114 4156585.459
AREAVERT ARDN_DST    583430.576 4156543.296 583432.436 4156532.135
AREAVERT ARDN_DST    583439.876 4156470.130 583451.657 4156461.449
AREAVERT ARDN_DST    583458.478 4156466.410 583500.641 4156522.214
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AREAVERT ARDN_DST    583521.723 4156528.415 583511.182 4156513.533
AREAVERT ARDN_DST    583568.846 4156471.370 583495.681 4156377.123
AREAVERT ARDN_DST    583580.007 4156295.897 583523.583 4156245.053
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AREAVERT ARDN_DST    583521.723 4156233.272 583480.180 4156197.309
AREAVERT ARDN_DST    583458.478 4156160.106 583359.890 4156072.059
AREAVERT ARDN_DST    583375.391 4155959.830 583363.611 4155964.791
AREAVERT ARDN_DST    583346.249 4156083.220 583405.774 4156138.404
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AREAVERT ARDN_DST    583394.613 4156450.288 583307.806 4156418.046
AREAVERT ARDN_DST    583295.405 4156428.587 583276.804 4156428.587
SRCPARAM COAST_DST   0.000022718     0.000        59     1.000
AREAVERT COAST_DST   583607.877 4155762.287 583587.087 4155735.264
AREAVERT COAST_DST   583538.083 4155660.282 583500.100 4155603.209
AREAVERT COAST_DST   583476.878 4155618.560 583481.994 4155631.724
AREAVERT COAST_DST   583466.862 4155642.724 583482.424 4155659.263
AREAVERT COAST_DST   583497.345 4155660.872 583520.961 4155695.116
AREAVERT COAST_DST   583540.838 4155724.833 583520.174 4155841.537
AREAVERT COAST_DST   583500.100 4155960.012 583480.617 4156071.598
AREAVERT COAST_DST   583463.495 4156169.015 583459.756 4156189.876
AREAVERT COAST_DST   583444.405 4156177.084 583425.119 4156292.804
AREAVERT COAST_DST   583423.544 4156301.070 583438.304 4156315.830
AREAVERT COAST_DST   583414.098 4156454.182 583387.923 4156599.028
AREAVERT COAST_DST   583367.849 4156711.402 583349.153 4156827.712
AREAVERT COAST_DST   583322.585 4156983.186 583309.202 4157058.167
AREAVERT COAST_DST   583289.128 4157169.951 583269.842 4157275.240
AREAVERT COAST_DST   583259.018 4157336.642 583278.107 4157339.201
AREAVERT COAST_DST   583289.325 4157286.851 583297.000 4157251.033
AREAVERT COAST_DST   583300.543 4157233.518 583309.202 4157188.253
AREAVERT COAST_DST   583316.484 4157148.499 583329.473 4157082.177
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  AREAVERT COAST_DST    583336.951 4157043.604 583350.727 4156968.425
  AREAVERT COAST_DST    583365.094 4156894.822 583374.344 4156845.424
  AREAVERT COAST_DST    583385.168 4156785.793 583393.630 4156739.545
  AREAVERT COAST_DST    583387.136 4156711.599 583399.731 4156644.489
  AREAVERT COAST_DST    583413.507 4156560.652 583424.135 4156500.430
  AREAVERT COAST_DST    583437.320 4156426.039 583453.064 4156333.739
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  AREAVERT COAST_DST    583490.457 4156219.594 583473.532 4156203.849
  AREAVERT COAST_DST    583486.127 4156138.314 583497.739 4156071.598
  AREAVERT COAST_DST    583507.775 4156015.707 583521.552 4155937.773
  AREAVERT COAST_DST    583538.280 4155847.638 583556.976 4155742.939
  AREAVERT COAST_DST    583565.372 4155760.865
  SRCPARAM COAST_EX     0.000022718     5.000        59     2.150
  AREAVERT COAST_EX     583607.877 4155762.287 583587.087 4155735.264
  AREAVERT COAST_EX     583538.083 4155660.282 583500.100 4155603.209
  AREAVERT COAST_EX     583476.878 4155618.560 583481.994 4155631.724
  AREAVERT COAST_EX     583466.862 4155642.724 583482.424 4155659.263
  AREAVERT COAST_EX     583497.345 4155660.872 583520.961 4155695.116
  AREAVERT COAST_EX     583540.838 4155724.833 583520.174 4155841.537
  AREAVERT COAST_EX     583500.100 4155960.012 583480.617 4156071.598
  AREAVERT COAST_EX     583463.495 4156169.015 583459.756 4156189.876
  AREAVERT COAST_EX     583444.405 4156177.084 583425.119 4156292.804
  AREAVERT COAST_EX     583423.544 4156301.070 583438.304 4156315.830
  AREAVERT COAST_EX     583414.098 4156454.182 583387.923 4156599.028
  AREAVERT COAST_EX     583367.849 4156711.402 583349.153 4156827.712
  AREAVERT COAST_EX     583322.585 4156983.186 583309.202 4157058.167
  AREAVERT COAST_EX     583289.128 4157169.951 583269.842 4157275.240
  AREAVERT COAST_EX     583259.018 4157336.642 583278.107 4157339.201
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  AREAVERT COAST_EX     583300.543 4157233.518 583309.202 4157188.253
  AREAVERT COAST_EX     583316.484 4157148.499 583329.473 4157082.177
  AREAVERT COAST_EX     583336.951 4157043.604 583350.727 4156968.425
  AREAVERT COAST_EX     583365.094 4156894.822 583374.344 4156845.424
  AREAVERT COAST_EX     583385.168 4156785.793 583393.630 4156739.545
  AREAVERT COAST_EX     583387.136 4156711.599 583399.731 4156644.489
  AREAVERT COAST_EX     583413.507 4156560.652 583424.135 4156500.430
  AREAVERT COAST_EX     583437.320 4156426.039 583453.064 4156333.739
  AREAVERT COAST_EX     583464.873 4156343.973 583476.878 4156284.145
  AREAVERT COAST_EX     583490.457 4156219.594 583473.532 4156203.849
  AREAVERT COAST_EX     583486.127 4156138.314 583497.739 4156071.598
  AREAVERT COAST_EX     583507.775 4156015.707 583521.552 4155937.773
  AREAVERT COAST_EX     583538.280 4155847.638 583556.976 4155742.939
  AREAVERT COAST_EX     583565.372 4155760.865
  URBANSRC ALL


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** AERMOD Receptor Pathway
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RE STARTING
  INCLUDED "Coast CSTN_Alt E.rou"
RE FINISHED
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** AERMOD Meteorology Pathway
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  PROFFILE "Coast CSTN_Alt E.PFL"
  SURFDATA 93228 2013 Hayward_Airport
  UAIRDATA -1 2013
  PROFBASE 13.1 METERS
ME FINISHED
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** AERMOD Output Pathway
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OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE PERIOD ARDN_DST "COAST CSTN_ALT E.AD\PE00G001.PLT" 31
  PLOTFILE PERIOD ARDN_EX "COAST CSTN_ALT E.AD\PE00G002.PLT" 32
  PLOTFILE PERIOD COAST_DS "COAST CSTN_ALT E.AD\PE00G003.PLT" 33
  PLOTFILE PERIOD COAST_EX "COAST CSTN_ALT E.AD\PE00G004.PLT" 34
  PLOTFILE PERIOD ONRD_T "COAST CSTN_ALT E.AD\PE00G005.PLT" 35
  PLOTFILE PERIOD ONRD_W "COAST CSTN_ALT E.AD\PE00G006.PLT" 36
  SUMMFILE "Coast CSTN_Alt E.sum"
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/31/2023
** File: C:\Lakes\AERMOD View\CCJPA_2023\Niles_Shinn_CSTN\Niles_Shinn_CSTN.ADI
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** AERMOD Control Pathway
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CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 1628997 Alameda_County
   POLLUTID PM
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL Niles_Shinn_CSTN.err
CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION ALTB_EX      AREAPOLY   589008.824  4158794.635       13.990
** DESCRSRC Alternative B Construction Exhaust Emissions
   LOCATION ALTB_DST     AREAPOLY   589008.824  4158794.635       13.990
** DESCRSRC Alternative B Construction Dust Emissions
   LOCATION ALTC_EX      AREAPOLY   589003.115  4158788.494       13.910
** DESCRSRC Alternative C Construction Exhaust Emissions
   LOCATION ALTC_DST     AREAPOLY   589003.115  4158788.494       13.910
** DESCRSRC Alternative C Construction Dust  Emissions
   LOCATION ALTD_EX      AREAPOLY   589462.103  4159655.108       20.620
** DESCRSRC Alternative D Construxtion Exhaust Emissions
   LOCATION ALTD_DST     AREAPOLY   589462.103  4159655.108       20.620
** DESCRSRC Alternative D Construxtion Dust Emissions
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONRD_T
** DESCRSRC Onroad vehicle exhaust emissions
** PREFIX
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** Length of Side = 18.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 8
** 589724.154, 4158353.022, 20.64, 3.40, 8.37
** 589758.202, 4158227.815, 20.00, 3.40, 8.37
** 589797.741, 4158078.444, 19.96, 3.40, 8.37
** 589832.887, 4157962.023, 19.00, 3.40, 8.37
** 589852.657, 4157895.026, 19.00, 3.40, 8.37
** 590027.288, 4157945.549, 19.64, 3.40, 8.37
** 590144.808, 4157973.006, 20.00, 3.40, 8.37
** 590210.706, 4157944.450, 20.00, 3.40, 8.37
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LOCATION	L0000001	VOLUME	589726.516	4158344.338 20.58
LOCATION	L0000002	VOLUME	589731.239	4158326.968 20.95
LOCATION	L0000003	VOLUME	589735.962	4158309.599 21.00
LOCATION	L0000004	VOLUME	589740.686	4158292.230 21.00
LOCATION	L0000005	VOLUME	589745.409	4158274.861 20.77
LOCATION	L0000006	VOLUME	589750.132	4158257.491 20.58
LOCATION	L0000007	VOLUME	589754.855	4158240.122 20.33
LOCATION	L0000008	VOLUME	589759.544	4158222.744 20.00
LOCATION	L0000009	VOLUME	589764.150	4158205.343 20.00
LOCATION	L0000010	VOLUME	589768.756	4158187.942 20.00
LOCATION	L0000011	VOLUME	589773.363	4158170.542 20.00
LOCATION	L0000012	VOLUME	589777.969	4158153.141 20.00
LOCATION	L0000013	VOLUME	589782.575	4158135.740 19.99
LOCATION	L0000014	VOLUME	589787.181	4158118.339 19.88
LOCATION	L0000015	VOLUME	589791.787	4158100.939 19.95
LOCATION	L0000016	VOLUME	589796.393	4158083.538 20.00
LOCATION	L0000017	VOLUME	589801.420	4158066.257 19.75
LOCATION	L0000018	VOLUME	589806.623	4158049.025 19.49
LOCATION	L0000019	VOLUME	589811.825	4158031.793 19.32
LOCATION	L0000020	VOLUME	589817.027	4158014.561 19.00
LOCATION	L0000021	VOLUME	589822.229	4157997.329 19.00
LOCATION	L0000022	VOLUME	589827.431	4157980.097 19.00
LOCATION	L0000023	VOLUME	589832.633	4157962.865 19.00
LOCATION	L0000024	VOLUME	589837.733	4157945.603 19.00
LOCATION	L0000025	VOLUME	589842.827	4157928.339 19.00
LOCATION	L0000026	VOLUME	589847.921	4157911.075 19.00
LOCATION	L0000027	VOLUME	589853.874	4157895.379 19.00
LOCATION	L0000028	VOLUME	589871.165	4157900.381 19.00
LOCATION	L0000029	VOLUME	589888.456	4157905.383 19.00
LOCATION	L0000030	VOLUME	589905.747	4157910.386 19.00
LOCATION	L0000031	VOLUME	589923.038	4157915.388 19.00
LOCATION	L0000032	VOLUME	589940.329	4157920.391 19.00
LOCATION	L0000033	VOLUME	589957.620	4157925.393 19.00
LOCATION	L0000034	VOLUME	589974.911	4157930.395 19.00
LOCATION	L0000035	VOLUME	589992.202	4157935.398 19.00
LOCATION	L0000036	VOLUME	590009.493	4157940.400 19.10
LOCATION	L0000037	VOLUME	590026.783	4157945.403 19.50
LOCATION	L0000038	VOLUME	590044.304	4157949.524 19.77
LOCATION	L0000039	VOLUME	590061.832	4157953.620 19.91

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   LOCATION L0000040     VOLUME   590079.360 4157957.715 20.00
   LOCATION L0000041     VOLUME   590096.888 4157961.810 20.00
   LOCATION L0000042     VOLUME   590114.416 4157965.906 20.00
   LOCATION L0000043     VOLUME   590131.944 4157970.001 20.00
   LOCATION L0000044     VOLUME   590149.203 4157971.102 20.00
   LOCATION L0000045     VOLUME   590165.719 4157963.945 20.00
   LOCATION L0000046     VOLUME   590182.235 4157956.788 20.00
   LOCATION L0000047     VOLUME   590198.751 4157949.631 20.00
** End of LINE VOLUME Source ID = ONRD_T
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONRD_W
** DESCRSRC Onroad vehicle exhaust emissions
** PREFIX
** Length of Side = 18.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.60
** SZINIT = 1.21
** Nodes = 8
** 589724.154, 4158353.022, 20.64, 1.30, 8.37
** 589758.202, 4158227.815, 20.00, 1.30, 8.37
** 589797.741, 4158078.444, 19.96, 1.30, 8.37
** 589832.887, 4157962.023, 19.00, 1.30, 8.37
** 589852.657, 4157895.026, 19.00, 1.30, 8.37
** 590027.288, 4157945.549, 19.64, 1.30, 8.37
** 590144.808, 4157973.006, 20.00, 1.30, 8.37
** 590210.706, 4157944.450, 20.00, 1.30, 8.37
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   LOCATION L0001944     VOLUME   589731.239 4158326.968 20.95
   LOCATION L0001945     VOLUME   589735.962 4158309.599 21.00
   LOCATION L0001946     VOLUME   589740.686 4158292.230 21.00
   LOCATION L0001947     VOLUME   589745.409 4158274.861 20.77
   LOCATION L0001948     VOLUME   589750.132 4158257.491 20.58
   LOCATION L0001949     VOLUME   589754.855 4158240.122 20.33
   LOCATION L0001950     VOLUME   589759.544 4158222.744 20.00
   LOCATION L0001951     VOLUME   589764.150 4158205.343 20.00
   LOCATION L0001952     VOLUME   589768.756 4158187.942 20.00
   LOCATION L0001953     VOLUME   589773.363 4158170.542 20.00
   LOCATION L0001954     VOLUME   589777.969 4158153.141 20.00
   LOCATION L0001955     VOLUME   589782.575 4158135.740 19.99
   LOCATION L0001956     VOLUME   589787.181 4158118.339 19.88
   LOCATION L0001957     VOLUME   589791.787 4158100.939 19.95
   LOCATION L0001958     VOLUME   589796.393 4158083.538 20.00
   LOCATION L0001959     VOLUME   589801.420 4158066.257 19.75
   LOCATION L0001960     VOLUME   589806.623 4158049.025 19.49
   LOCATION L0001961     VOLUME   589811.825 4158031.793 19.32
   LOCATION L0001962     VOLUME   589817.027 4158014.561 19.00
   LOCATION L0001963     VOLUME   589822.229 4157997.329 19.00
   LOCATION L0001964     VOLUME   589827.431 4157980.097 19.00
   LOCATION L0001965     VOLUME   589832.633 4157962.865 19.00
   LOCATION L0001966     VOLUME   589837.733 4157945.603 19.00
   LOCATION L0001967     VOLUME   589842.827 4157928.339 19.00
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  LOCATION L0001968     VOLUME   589847.921 4157911.075 19.00
  LOCATION L0001969     VOLUME   589853.874 4157895.379 19.00
  LOCATION L0001970     VOLUME   589871.165 4157900.381 19.00
  LOCATION L0001971     VOLUME   589888.456 4157905.383 19.00
  LOCATION L0001972     VOLUME   589905.747 4157910.386 19.00
  LOCATION L0001973     VOLUME   589923.038 4157915.388 19.00
  LOCATION L0001974     VOLUME   589940.329 4157920.391 19.00
  LOCATION L0001975     VOLUME   589957.620 4157925.393 19.00
  LOCATION L0001976     VOLUME   589974.911 4157930.395 19.00
  LOCATION L0001977     VOLUME   589992.202 4157935.398 19.00
  LOCATION L0001978     VOLUME   590009.493 4157940.400 19.10
  LOCATION L0001979     VOLUME   590026.783 4157945.403 19.50
  LOCATION L0001980     VOLUME   590044.304 4157949.524 19.77
  LOCATION L0001981     VOLUME   590061.832 4157953.620 19.91
  LOCATION L0001982     VOLUME   590079.360 4157957.715 20.00
  LOCATION L0001983     VOLUME   590096.888 4157961.810 20.00
  LOCATION L0001984     VOLUME   590114.416 4157965.906 20.00
  LOCATION L0001985     VOLUME   590131.944 4157970.001 20.00
  LOCATION L0001986     VOLUME   590149.203 4157971.102 20.00
  LOCATION L0001987     VOLUME   590165.719 4157963.945 20.00
  LOCATION L0001988     VOLUME   590182.235 4157956.788 20.00
  LOCATION L0001989     VOLUME   590198.751 4157949.631 20.00
** End of LINE VOLUME Source ID = ONRD_W
** Source Parameters **
  SRCPARAM ALTB_EX     0.0000115932     5.000       109     2.150
  AREAVERT ALTB_EX     589008.824 4158794.635 588991.314 4158777.786
  AREAVERT ALTB_EX     589138.328 4158635.727 589293.602 4158474.838
  AREAVERT ALTB_EX     589301.530 4158481.115 589399.650 4158389.272
  AREAVERT ALTB_EX     589383.132 4158398.523 589376.524 4158400.175
  AREAVERT ALTB_EX     589435.660 4158348.967 589452.441 4158337.821
  AREAVERT ALTB_EX     589469.484 4158329.502 589481.048 4158329.908
  AREAVERT ALTB_EX     589483.077 4158328.691 589483.889 4158323.416
  AREAVERT ALTB_EX     589504.178 4158315.706 589503.772 4158303.330
  AREAVERT ALTB_EX     589512.699 4158304.141 589521.221 4158279.794
  AREAVERT ALTB_EX     589532.988 4158282.838 589531.771 4158292.374
  AREAVERT ALTB_EX     589534.408 4158296.229 589541.307 4158299.272
  AREAVERT ALTB_EX     589582.899 4158296.431 589622.463 4158299.475
  AREAVERT ALTB_EX     589706.256 4158322.198 589718.835 4158323.213
  AREAVERT ALTB_EX     589727.966 4158314.489 589741.965 4158318.141
  AREAVERT ALTB_EX     589738.516 4158333.357 589820.078 4158369.675
  AREAVERT ALTB_EX     589845.236 4158375.558 589871.409 4158378.399
  AREAVERT ALTB_EX     589919.494 4158377.182 589968.593 4158366.631
  AREAVERT ALTB_EX     590030.069 4158349.994 590089.718 4158341.676
  AREAVERT ALTB_EX     590097.631 4158334.778 589988.273 4158296.026
  AREAVERT ALTB_EX     589877.495 4158256.868 589883.379 4158239.216
  AREAVERT ALTB_EX     589937.551 4158258.897 590013.026 4158285.881
  AREAVERT ALTB_EX     590110.210 4158320.981 590200.293 4158353.241
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AREAVERT ALTD_DST    589842.334 4159511.552 590044.736 4159470.813
AREAVERT ALTD_DST    590263.950 4159430.721 590263.303 4159420.374
AREAVERT ALTD_DST    590318.915 4159411.321 590363.534 4159395.802
AREAVERT ALTD_DST    590402.333 4159373.815 590446.952 4159338.250
AREAVERT ALTD_DST    590499.978 4159283.931 590528.430 4159263.885
AREAVERT ALTD_DST    590549.123 4159239.312 590634.481 4159150.721
AREAVERT ALTD_DST    590768.338 4159008.458 590778.684 4159018.804
```

```
  AREAVERT ALTD_DST    590846.582 4158990.998 590893.788 4158987.118
  AREAVERT ALTD_DST    590959.100 4158990.998 591008.892 4159008.458
  AREAVERT ALTD_DST    591054.157 4159038.204 591069.677 4159022.684
  AREAVERT ALTD_DST    591221.640 4159187.580 591327.690 4159306.564
  AREAVERT ALTD_DST    591355.496 4159338.250 591331.570 4159358.942
  AREAVERT ALTD_DST    591142.102 4159146.841 591134.342 4159150.721
  AREAVERT ALTD_DST    591017.945 4159059.543 590957.160 4159032.384
  AREAVERT ALTD_DST    590906.074 4159025.271 590867.922 4159027.211
  AREAVERT ALTD_DST    590816.190 4159042.730 590794.204 4159053.723
  AREAVERT ALTD_DST    590786.444 4159075.063 590776.744 4159075.063
  AREAVERT ALTD_DST    590774.804 4159080.883 590754.758 4159075.063
  AREAVERT ALTD_DST    590746.998 4159083.469 590740.532 4159080.236
  AREAVERT ALTD_DST    590692.679 4159147.488 590677.160 4159179.174
  AREAVERT ALTD_DST    590664.874 4159163.654 590651.940 4159177.880
  AREAVERT ALTD_DST    590646.121 4159174.000 590502.564 4159328.550
  AREAVERT ALTD_DST    590452.125 4159380.929 590410.093 4159407.441
  AREAVERT ALTD_DST    590342.841 4159433.307 590269.123 4159446.240
  AREAVERT ALTD_DST    590035.036 4159488.919 589841.041 4159527.718
  AREAVERT ALTD_DST    589838.454 4159580.097 589756.329 4159591.737
  AREAVERT ALTD_DST    589806.121 4159539.358 589457.577 4159628.596
** LINE VOLUME Source ID = ONRD_T
  SRCPARAM L0000001    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000002    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000003    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000004    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000005    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000006    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000007    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000008    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000009    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000010    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000011    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000012    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000013    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000014    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000015    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000016    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000017    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000018    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000019    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000020    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000021    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000022    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000023    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000024    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000025    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000026    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000027    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000028    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000029    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000030    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000031    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000032    0.0212765957    3.40    8.37    3.16
  SRCPARAM L0000033    0.0212765957    3.40    8.37    3.16
```

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   SRCPARAM L0000034    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000035    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000036    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000037    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000038    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000039    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000040    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000041    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000042    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000043    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000044    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000045    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000046    0.0212765957    3.40    8.37    3.16
   SRCPARAM L0000047    0.0212765957    3.40    8.37    3.16
 ** ------------------------------------------------------------------
 ** LINE VOLUME Source ID = ONRD_W
   SRCPARAM L0001943    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001944    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001945    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001946    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001947    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001948    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001949    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001950    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001951    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001952    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001953    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001954    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001955    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001956    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001957    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001958    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001959    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001960    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001961    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001962    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001963    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001964    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001965    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001966    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001967    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001968    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001969    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001970    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001971    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001972    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001973    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001974    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001975    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001976    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001977    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001978    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001979    0.0212765957    1.30    8.37    1.21
   SRCPARAM L0001980    0.0212765957    1.30    8.37    1.21
```

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  SRCPARAM L0001981    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001982    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001983    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001984    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001985    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001986    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001987    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001988    0.0212765957    1.30    8.37    1.21
  SRCPARAM L0001989    0.0212765957    1.30    8.37    1.21
** ----------------------------------------------------------------
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Day"
**
  SRCGROUP ALTB_DST ALTB_DST
  SRCGROUP ALTB_EX  ALTB_EX
  SRCGROUP ALTC_DST ALTC_DST
  SRCGROUP ALTC_EX  ALTC_EX
  SRCGROUP ALTD_DST ALTD_DST
  SRCGROUP ALTD_EX  ALTD_EX
  SRCGROUP ONRD_T   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
  SRCGROUP ONRD_T   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
  SRCGROUP ONRD_T   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
  SRCGROUP ONRD_T   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
  SRCGROUP ONRD_T   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
  SRCGROUP ONRD_T   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
  SRCGROUP ONRD_T   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
  SRCGROUP ONRD_T   L0000043 L0000044 L0000045 L0000046 L0000047
  SRCGROUP ONRD_W   L0001943 L0001944 L0001945 L0001946 L0001947 L0001948
  SRCGROUP ONRD_W   L0001949 L0001950 L0001951 L0001952 L0001953 L0001954
  SRCGROUP ONRD_W   L0001955 L0001956 L0001957 L0001958 L0001959 L0001960
  SRCGROUP ONRD_W   L0001961 L0001962 L0001963 L0001964 L0001965 L0001966
  SRCGROUP ONRD_W   L0001967 L0001968 L0001969 L0001970 L0001971 L0001972
  SRCGROUP ONRD_W   L0001973 L0001974 L0001975 L0001976 L0001977 L0001978
  SRCGROUP ONRD_W   L0001979 L0001980 L0001981 L0001982 L0001983 L0001984
  SRCGROUP ONRD_W   L0001985 L0001986 L0001987 L0001988 L0001989
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
  INCLUDED Niles_Shinn_CSTN.rou
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
```

```
  SURFFILE Niles_Shinn_CSTN.SFC
  PROFFILE Niles_Shinn_CSTN.PFL
  SURFDATA 93228 2013 Hayward_Airport
  UAIRDATA -1 2013
  PROFBASE 13.1 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE PERIOD ALTB_DST NILES_SHINN_CSTN.AD\PE00G001.PLT 31
  PLOTFILE PERIOD ALTB_EX NILES_SHINN_CSTN.AD\PE00G002.PLT 32
  PLOTFILE PERIOD ALTC_DST NILES_SHINN_CSTN.AD\PE00G003.PLT 33
  PLOTFILE PERIOD ALTC_EX NILES_SHINN_CSTN.AD\PE00G004.PLT 34
  PLOTFILE PERIOD ALTD_DST NILES_SHINN_CSTN.AD\PE00G005.PLT 35
  PLOTFILE PERIOD ALTD_EX NILES_SHINN_CSTN.AD\PE00G006.PLT 36
  PLOTFILE PERIOD ONRD_T NILES_SHINN_CSTN.AD\PE00G007.PLT 37
  PLOTFILE PERIOD ONRD_W NILES_SHINN_CSTN.AD\PE00G008.PLT 38
  SUMMFILE Niles_Shinn_CSTN.sum
OU FINISHED
**
**********************************
** Project Parameters
**********************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/5/2023
** File: C:\Lakes\AERMOD View\CCJPA_2023\Coast_Ops_AltE\Coast_Ops_AltE.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Coast_Ops_HRA\Coast_Ops_HRA.isc
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 1628997 Alameda_County
   POLLUTID DPM_PM25
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL Coast_Ops_AltE.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONROAD
** DESCRSRC Coast Haul trucks
** PREFIX
** Length of Side = 36.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.60
** SZINIT = 1.21
** Nodes = 16
** 583786.918, 4156480.229, 5.00, 1.30, 16.74
** 583648.996, 4156560.224, 4.00, 1.30, 16.74
** 583550.612, 4156615.393, 5.00, 1.30, 16.74
** 583487.168, 4156637.460, 5.00, 1.30, 16.74
** 583412.690, 4156640.219, 5.00, 1.30, 16.74
** 583303.272, 4156623.668, 4.07, 1.30, 16.74
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** 583192.934, 4156609.876, 4.00, 1.30, 16.74
** 583154.316, 4156608.037, 4.00, 1.30, 16.74
** 583041.220, 4156632.863, 4.00, 1.30, 16.74
** 583020.072, 4156611.715, 4.00, 1.30, 16.74
** 583002.602, 4156602.520, 4.00, 1.30, 16.74
** 582937.319, 4156508.733, 4.00, 1.30, 16.74
** 582919.576, 4156484.942, 4.00, 1.30, 16.74
** 583070.347, 4156383.273, 4.00, 1.30, 16.74
** 583091.284, 4156347.059, 4.00, 1.30, 16.74
** 583306.446, 4156418.523, 4.00, 1.30, 16.74
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LOCATION	L0001203	VOLUME	583771.348	4156489.260 5.00
LOCATION	L0001204	VOLUME	583740.207	4156507.322 4.24
LOCATION	L0001205	VOLUME	583709.065	4156525.384 4.00
LOCATION	L0001206	VOLUME	583677.924	4156543.446 4.00
LOCATION	L0001207	VOLUME	583646.765	4156561.475 4.00
LOCATION	L0001208	VOLUME	583615.365	4156579.083 4.08
LOCATION	L0001209	VOLUME	583583.964	4156596.691 4.67
LOCATION	L0001210	VOLUME	583552.564	4156614.298 5.00
LOCATION	L0001211	VOLUME	583518.724	4156626.484 5.00
LOCATION	L0001212	VOLUME	583484.580	4156637.556 5.00
LOCATION	L0001213	VOLUME	583448.605	4156638.889 5.00
LOCATION	L0001214	VOLUME	583412.630	4156640.210 5.00
LOCATION	L0001215	VOLUME	583377.035	4156634.826 5.00
LOCATION	L0001216	VOLUME	583341.440	4156629.442 4.72
LOCATION	L0001217	VOLUME	583305.845	4156624.057 4.00
LOCATION	L0001218	VOLUME	583270.132	4156619.526 4.00
LOCATION	L0001219	VOLUME	583234.410	4156615.061 4.00
LOCATION	L0001220	VOLUME	583198.688	4156610.595 4.00
LOCATION	L0001221	VOLUME	583162.767	4156608.440 4.00
LOCATION	L0001222	VOLUME	583127.417	4156613.942 4.00
LOCATION	L0001223	VOLUME	583092.254	4156621.660 4.00
LOCATION	L0001224	VOLUME	583057.091	4156629.379 4.00
LOCATION	L0001225	VOLUME	583027.254	4156618.897 4.00
LOCATION	L0001226	VOLUME	582999.117	4156597.513 4.00
LOCATION	L0001227	VOLUME	582978.550	4156567.966 4.00
LOCATION	L0001228	VOLUME	582957.983	4156538.420 4.00
LOCATION	L0001229	VOLUME	582937.416	4156508.873 4.00
LOCATION	L0001230	VOLUME	582924.676	4156481.503 4.00
LOCATION	L0001231	VOLUME	582954.523	4156461.376 4.00
LOCATION	L0001232	VOLUME	582984.371	4156441.248 4.00
LOCATION	L0001233	VOLUME	583014.219	4156421.121 4.00
LOCATION	L0001234	VOLUME	583044.067	4156400.994 4.00
LOCATION	L0001235	VOLUME	583072.501	4156379.547 4.00
LOCATION	L0001236	VOLUME	583090.519	4156348.381 4.00
LOCATION	L0001237	VOLUME	583123.999	4156357.925 4.00
LOCATION	L0001238	VOLUME	583158.164	4156369.273 4.00
LOCATION	L0001239	VOLUME	583192.329	4156380.620 4.00
LOCATION	L0001240	VOLUME	583226.494	4156391.968 4.00
LOCATION	L0001241	VOLUME	583260.659	4156403.315 4.00
LOCATION	L0001242	VOLUME	583294.824	4156414.663 4.00

** End of LINE VOLUME Source ID = ONROAD
** ----------
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = C_PASS_D
** DESCRSRC Coast Passenger Day
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 11.22
** SZINIT = 5.22
** Nodes = 10
** 583252.822, 4157406.512, 5.00, 5.60, 10.23
** 583297.104, 4157163.009, 4.94, 5.60, 10.23
** 583336.645, 4156936.745, 5.00, 5.60, 10.23
** 583362.457, 4156778.581, 5.00, 5.60, 10.23
** 583389.916, 4156626.457, 5.00, 5.60, 10.23
** 583431.654, 4156393.054, 4.00, 5.60, 10.23
** 583458.564, 4156246.422, 4.98, 5.60, 10.23
** 583478.884, 4156127.250, 4.95, 5.60, 10.23
** 583520.622, 4155890.002, 4.98, 5.60, 10.23
** 583610.792, 4155374.425, 4.99, 5.60, 10.23
** ----------

LOCATION	L0001109	VOLUME	583254.790	4157395.689 5.00
LOCATION	L0001110	VOLUME	583258.727	4157374.044 5.00
LOCATION	L0001111	VOLUME	583262.663	4157352.399 5.00
LOCATION	L0001112	VOLUME	583266.599	4157330.754 5.00
LOCATION	L0001113	VOLUME	583270.535	4157309.109 5.00
LOCATION	L0001114	VOLUME	583274.471	4157287.464 5.00
LOCATION	L0001115	VOLUME	583278.408	4157265.819 5.00
LOCATION	L0001116	VOLUME	583282.344	4157244.174 5.00
LOCATION	L0001117	VOLUME	583286.280	4157222.529 5.00
LOCATION	L0001118	VOLUME	583290.216	4157200.884 5.00
LOCATION	L0001119	VOLUME	583294.152	4157179.239 5.00
LOCATION	L0001120	VOLUME	583298.051	4157157.588 5.00
LOCATION	L0001121	VOLUME	583301.839	4157135.916 5.00
LOCATION	L0001122	VOLUME	583305.626	4157114.244 5.00
LOCATION	L0001123	VOLUME	583309.413	4157092.573 5.00
LOCATION	L0001124	VOLUME	583313.200	4157070.901 5.00
LOCATION	L0001125	VOLUME	583316.988	4157049.230 5.00
LOCATION	L0001126	VOLUME	583320.775	4157027.558 5.00
LOCATION	L0001127	VOLUME	583324.562	4157005.887 5.00
LOCATION	L0001128	VOLUME	583328.350	4156984.215 5.00
LOCATION	L0001129	VOLUME	583332.137	4156962.544 5.00
LOCATION	L0001130	VOLUME	583335.924	4156940.872 5.00
LOCATION	L0001131	VOLUME	583339.514	4156919.167 5.00
LOCATION	L0001132	VOLUME	583343.057	4156897.454 5.00
LOCATION	L0001133	VOLUME	583346.601	4156875.742 5.00
LOCATION	L0001134	VOLUME	583350.144	4156854.029 5.00
LOCATION	L0001135	VOLUME	583353.688	4156832.316 5.00
LOCATION	L0001136	VOLUME	583357.231	4156810.603 5.00
LOCATION	L0001137	VOLUME	583360.774	4156788.890 5.00
LOCATION	L0001138	VOLUME	583364.509	4156767.211 5.00
LOCATION	L0001139	VOLUME	583368.417	4156745.560 5.00
LOCATION	L0001140	VOLUME	583372.325	4156723.910 5.00
LOCATION	L0001141	VOLUME	583376.233	4156702.260 5.00
LOCATION	L0001142	VOLUME	583380.141	4156680.610 5.00

LOCATION L0001143 VOLUME 583384.049 4156658.960 5.00
LOCATION L0001144 VOLUME 583387.957 4156637.310 5.00
LOCATION L0001145 VOLUME 583391.847 4156615.657 5.00
LOCATION L0001146 VOLUME 583395.720 4156594.000 5.00
LOCATION L0001147 VOLUME 583399.593 4156572.344 5.00
LOCATION L0001148 VOLUME 583403.465 4156550.687 4.99
LOCATION L0001149 VOLUME 583407.338 4156529.031 4.86
LOCATION L0001150 VOLUME 583411.211 4156507.374 4.73
LOCATION L0001151 VOLUME 583415.083 4156485.718 4.60
LOCATION L0001152 VOLUME 583418.956 4156464.061 4.47
LOCATION L0001153 VOLUME 583422.829 4156442.405 4.18
LOCATION L0001154 VOLUME 583426.701 4156420.748 4.00
LOCATION L0001155 VOLUME 583430.574 4156399.092 4.00
LOCATION L0001156 VOLUME 583434.518 4156377.448 4.00
LOCATION L0001157 VOLUME 583438.489 4156355.810 4.00
LOCATION L0001158 VOLUME 583442.460 4156334.171 4.00
LOCATION L0001159 VOLUME 583446.431 4156312.532 4.00
LOCATION L0001160 VOLUME 583450.402 4156290.894 4.52
LOCATION L0001161 VOLUME 583454.374 4156269.255 5.00
LOCATION L0001162 VOLUME 583458.345 4156247.617 5.00
LOCATION L0001163 VOLUME 583462.058 4156225.932 5.00
LOCATION L0001164 VOLUME 583465.755 4156204.245 4.95
LOCATION L0001165 VOLUME 583469.453 4156182.558 5.00
LOCATION L0001166 VOLUME 583473.151 4156160.871 5.00
LOCATION L0001167 VOLUME 583476.849 4156139.184 5.00
LOCATION L0001168 VOLUME 583480.598 4156117.506 5.00
LOCATION L0001169 VOLUME 583484.410 4156095.839 5.00
LOCATION L0001170 VOLUME 583488.221 4156074.172 5.00
LOCATION L0001171 VOLUME 583492.033 4156052.504 5.00
LOCATION L0001172 VOLUME 583495.845 4156030.837 4.93
LOCATION L0001173 VOLUME 583499.657 4156009.170 4.98
LOCATION L0001174 VOLUME 583503.469 4155987.503 5.00
LOCATION L0001175 VOLUME 583507.281 4155965.835 5.00
LOCATION L0001176 VOLUME 583511.092 4155944.168 5.00
LOCATION L0001177 VOLUME 583514.904 4155922.501 5.00
LOCATION L0001178 VOLUME 583518.716 4155900.834 5.00
LOCATION L0001179 VOLUME 583522.517 4155879.164 5.00
LOCATION L0001180 VOLUME 583526.307 4155857.493 4.89
LOCATION L0001181 VOLUME 583530.097 4155835.822 4.93
LOCATION L0001182 VOLUME 583533.887 4155814.151 5.00
LOCATION L0001183 VOLUME 583537.677 4155792.480 5.00
LOCATION L0001184 VOLUME 583541.468 4155770.809 5.00
LOCATION L0001185 VOLUME 583545.258 4155749.138 5.00
LOCATION L0001186 VOLUME 583549.048 4155727.467 5.00
LOCATION L0001187 VOLUME 583552.838 4155705.796 5.00
LOCATION L0001188 VOLUME 583556.628 4155684.125 5.00
LOCATION L0001189 VOLUME 583560.418 4155662.454 5.00
LOCATION L0001190 VOLUME 583564.208 4155640.783 5.00
LOCATION L0001191 VOLUME 583567.998 4155619.112 5.00
LOCATION L0001192 VOLUME 583571.788 4155597.441 4.76
LOCATION L0001193 VOLUME 583575.578 4155575.769 4.84
LOCATION L0001194 VOLUME 583579.369 4155554.098 4.92
LOCATION L0001195 VOLUME 583583.159 4155532.427 4.19
LOCATION L0001196 VOLUME 583586.949 4155510.756 4.46

```
  LOCATION L0001197     VOLUME   583590.739 4155489.085 4.81
  LOCATION L0001198     VOLUME   583594.529 4155467.414 4.99
  LOCATION L0001199     VOLUME   583598.319 4155445.743 5.00
  LOCATION L0001200     VOLUME   583602.109 4155424.072 5.00
  LOCATION L0001201     VOLUME   583605.899 4155402.401 5.00
  LOCATION L0001202     VOLUME   583609.689 4155380.730 5.00
** End of LINE VOLUME Source ID = C_PASS_D
  LOCATION IDLE_EAST    POINT     583415.540  4156457.420       4.590
** DESCRSRC Idle for eastbound trains
  LOCATION IDLE_WEST    POINT     583390.140  4156596.720       5.000
** DESCRSRC Idling trains westbound
  LOCATION EMGEN        POINT     583321.710  4156583.570       4.000
** DESCRSRC Emergency Generator
** Source Parameters **
** LINE VOLUME Source ID = ONROAD
  SRCPARAM L0001203       0.025     1.30     16.74     1.21
  SRCPARAM L0001204       0.025     1.30     16.74     1.21
  SRCPARAM L0001205       0.025     1.30     16.74     1.21
  SRCPARAM L0001206       0.025     1.30     16.74     1.21
  SRCPARAM L0001207       0.025     1.30     16.74     1.21
  SRCPARAM L0001208       0.025     1.30     16.74     1.21
  SRCPARAM L0001209       0.025     1.30     16.74     1.21
  SRCPARAM L0001210       0.025     1.30     16.74     1.21
  SRCPARAM L0001211       0.025     1.30     16.74     1.21
  SRCPARAM L0001212       0.025     1.30     16.74     1.21
  SRCPARAM L0001213       0.025     1.30     16.74     1.21
  SRCPARAM L0001214       0.025     1.30     16.74     1.21
  SRCPARAM L0001215       0.025     1.30     16.74     1.21
  SRCPARAM L0001216       0.025     1.30     16.74     1.21
  SRCPARAM L0001217       0.025     1.30     16.74     1.21
  SRCPARAM L0001218       0.025     1.30     16.74     1.21
  SRCPARAM L0001219       0.025     1.30     16.74     1.21
  SRCPARAM L0001220       0.025     1.30     16.74     1.21
  SRCPARAM L0001221       0.025     1.30     16.74     1.21
  SRCPARAM L0001222       0.025     1.30     16.74     1.21
  SRCPARAM L0001223       0.025     1.30     16.74     1.21
  SRCPARAM L0001224       0.025     1.30     16.74     1.21
  SRCPARAM L0001225       0.025     1.30     16.74     1.21
  SRCPARAM L0001226       0.025     1.30     16.74     1.21
  SRCPARAM L0001227       0.025     1.30     16.74     1.21
  SRCPARAM L0001228       0.025     1.30     16.74     1.21
  SRCPARAM L0001229       0.025     1.30     16.74     1.21
  SRCPARAM L0001230       0.025     1.30     16.74     1.21
  SRCPARAM L0001231       0.025     1.30     16.74     1.21
  SRCPARAM L0001232       0.025     1.30     16.74     1.21
  SRCPARAM L0001233       0.025     1.30     16.74     1.21
  SRCPARAM L0001234       0.025     1.30     16.74     1.21
  SRCPARAM L0001235       0.025     1.30     16.74     1.21
  SRCPARAM L0001236       0.025     1.30     16.74     1.21
  SRCPARAM L0001237       0.025     1.30     16.74     1.21
  SRCPARAM L0001238       0.025     1.30     16.74     1.21
  SRCPARAM L0001239       0.025     1.30     16.74     1.21
  SRCPARAM L0001240       0.025     1.30     16.74     1.21
  SRCPARAM L0001241       0.025     1.30     16.74     1.21
```

```
  SRCPARAM L0001242        0.025     1.30     16.74      1.21
** ----------------------------------------------------------------
** LINE VOLUME Source ID = C_PASS_D
  SRCPARAM L0001109    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001110    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001111    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001112    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001113    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001114    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001115    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001116    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001117    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001118    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001119    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001120    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001121    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001122    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001123    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001124    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001125    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001126    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001127    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001128    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001129    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001130    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001131    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001132    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001133    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001134    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001135    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001136    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001137    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001138    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001139    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001140    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001141    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001142    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001143    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001144    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001145    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001146    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001147    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001148    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001149    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001150    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001151    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001152    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001153    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001154    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001155    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001156    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001157    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001158    0.0106382979     5.60     10.23      5.22
  SRCPARAM L0001159    0.0106382979     5.60     10.23      5.22
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  SRCPARAM L0001160    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001161    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001162    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001163    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001164    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001165    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001166    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001167    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001168    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001169    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001170    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001171    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001172    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001173    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001174    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001175    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001176    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001177    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001178    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001179    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001180    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001181    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001182    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001183    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001184    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001185    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001186    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001187    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001188    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001189    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001190    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001191    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001192    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001193    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001194    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001195    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001196    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001197    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001198    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001199    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001200    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001201    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001202    0.0106382979     5.60    10.23     5.22
** ------------------------------------------------------------------
  SRCPARAM IDLE_EAST         1.0     4.600   351.000      3.73     0.625
  SRCPARAM IDLE_WEST         1.0     4.600   351.000      3.73     0.625
  SRCPARAM EMGEN             1.0     3.660   740.150      45.3     0.183
  URBANSRC ALL

  ** Variable Emissions Type: "By Hour / Day (HRDOW)"
  ** Variable Emission Scenario: "13hrs (5)"

  **
  **********************************************
```

```
** AERMOD Receptor Pathway
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**
**
RE STARTING
  INCLUDED Coast_Ops_AltE.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
  SURFFILE ..\Coast_Ops_HRA\Coast_Ops_HRA.SFC
  PROFFILE ..\Coast_Ops_HRA\Coast_Ops_HRA.PFL
  SURFDATA 93228 2013 Hayward_Airport
  UAIRDATA 93228 2013 Hayward_Airport
  PROFBASE 13.1 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
  PLOTFILE PERIOD C_PASS_D COAST_OPS_ALTE.AD\PE00G001.PLT 31
  PLOTFILE PERIOD EMGEN COAST_OPS_ALTE.AD\PE00G002.PLT 32
  PLOTFILE PERIOD IDLE_EAS COAST_OPS_ALTE.AD\PE00G003.PLT 33
  PLOTFILE PERIOD IDLE_WES COAST_OPS_ALTE.AD\PE00G004.PLT 34
  PLOTFILE PERIOD ONRD_EX COAST_OPS_ALTE.AD\PE00G005.PLT 35
  SUMMFILE Coast_Ops_AltE.sum
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
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**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/29/2023
** File: C:\Lakes\AERMOD View\CCJPA_2023\Coast_Ops_HRA\Coast_Ops_HRA.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Coast_Ops_HRA\Coast_Ops_HRA.isc
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 1628997 Alameda_County
   POLLUTID PM_2.5
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL Coast_Ops_HRA.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = ONROAD
** DESCRSRC Coast Haul trucks
** PREFIX
** Length of Side = 36.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 2.60
** SZINIT = 1.21
** Nodes = 16
** 583786.918, 4156480.229, 5.00, 1.30, 16.74
** 583648.996, 4156560.224, 4.00, 1.30, 16.74
** 583550.612, 4156615.393, 5.00, 1.30, 16.74
** 583487.168, 4156637.460, 5.00, 1.30, 16.74
** 583412.690, 4156640.219, 5.00, 1.30, 16.74
** 583303.272, 4156623.668, 4.07, 1.30, 16.74
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** 583192.934, 4156609.876, 4.00, 1.30, 16.74
** 583154.316, 4156608.037, 4.00, 1.30, 16.74
** 583041.220, 4156632.863, 4.00, 1.30, 16.74
** 583020.072, 4156611.715, 4.00, 1.30, 16.74
** 583002.602, 4156602.520, 4.00, 1.30, 16.74
** 582937.319, 4156508.733, 4.00, 1.30, 16.74
** 582919.576, 4156484.942, 4.00, 1.30, 16.74
** 583070.347, 4156383.273, 4.00, 1.30, 16.74
** 583091.284, 4156347.059, 4.00, 1.30, 16.74
** 583306.446, 4156418.523, 4.00, 1.30, 16.74
** ----------
LOCATION L0001203 VOLUME 583771.348 4156489.260 5.00
LOCATION L0001204 VOLUME 583740.207 4156507.322 4.24
LOCATION L0001205 VOLUME 583709.065 4156525.384 4.00
LOCATION L0001206 VOLUME 583677.924 4156543.446 4.00
LOCATION L0001207 VOLUME 583646.765 4156561.475 4.00
LOCATION L0001208 VOLUME 583615.365 4156579.083 4.08
LOCATION L0001209 VOLUME 583583.964 4156596.691 4.67
LOCATION L0001210 VOLUME 583552.564 4156614.298 5.00
LOCATION L0001211 VOLUME 583518.724 4156626.484 5.00
LOCATION L0001212 VOLUME 583484.580 4156637.556 5.00
LOCATION L0001213 VOLUME 583448.605 4156638.889 5.00
LOCATION L0001214 VOLUME 583412.630 4156640.210 5.00
LOCATION L0001215 VOLUME 583377.035 4156634.826 5.00
LOCATION L0001216 VOLUME 583341.440 4156629.442 4.72
LOCATION L0001217 VOLUME 583305.845 4156624.057 4.00
LOCATION L0001218 VOLUME 583270.132 4156619.526 4.00
LOCATION L0001219 VOLUME 583234.410 4156615.061 4.00
LOCATION L0001220 VOLUME 583198.688 4156610.595 4.00
LOCATION L0001221 VOLUME 583162.767 4156608.440 4.00
LOCATION L0001222 VOLUME 583127.417 4156613.942 4.00
LOCATION L0001223 VOLUME 583092.254 4156621.660 4.00
LOCATION L0001224 VOLUME 583057.091 4156629.379 4.00
LOCATION L0001225 VOLUME 583027.254 4156618.897 4.00
LOCATION L0001226 VOLUME 582999.117 4156597.513 4.00
LOCATION L0001227 VOLUME 582978.550 4156567.966 4.00
LOCATION L0001228 VOLUME 582957.983 4156538.420 4.00
LOCATION L0001229 VOLUME 582937.416 4156508.873 4.00
LOCATION L0001230 VOLUME 582924.676 4156481.503 4.00
LOCATION L0001231 VOLUME 582954.523 4156461.376 4.00
LOCATION L0001232 VOLUME 582984.371 4156441.248 4.00
LOCATION L0001233 VOLUME 583014.219 4156421.121 4.00
LOCATION L0001234 VOLUME 583044.067 4156400.994 4.00
LOCATION L0001235 VOLUME 583072.501 4156379.547 4.00
LOCATION L0001236 VOLUME 583090.519 4156348.381 4.00
LOCATION L0001237 VOLUME 583123.999 4156357.925 4.00
LOCATION L0001238 VOLUME 583158.164 4156369.273 4.00
LOCATION L0001239 VOLUME 583192.329 4156380.620 4.00
LOCATION L0001240 VOLUME 583226.494 4156391.968 4.00
LOCATION L0001241 VOLUME 583260.659 4156403.315 4.00
LOCATION L0001242 VOLUME 583294.824 4156414.663 4.00
** End of LINE VOLUME Source ID = ONROAD
** ----------
** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = C_PASS_D
** DESCRSRC Coast Passenger Day
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 11.22
** SZINIT = 5.22
** Nodes = 10
** 583252.822, 4157406.512, 5.00, 5.60, 10.23
** 583297.104, 4157163.009, 4.94, 5.60, 10.23
** 583336.645, 4156936.745, 5.00, 5.60, 10.23
** 583362.457, 4156778.581, 5.00, 5.60, 10.23
** 583389.916, 4156626.457, 5.00, 5.60, 10.23
** 583431.654, 4156393.054, 4.00, 5.60, 10.23
** 583458.564, 4156246.422, 4.98, 5.60, 10.23
** 583478.884, 4156127.250, 4.95, 5.60, 10.23
** 583520.622, 4155890.002, 4.98, 5.60, 10.23
** 583610.792, 4155374.425, 4.99, 5.60, 10.23
** ----------

LOCATION	L0001109	VOLUME	583254.790	4157395.689 5.00
LOCATION	L0001110	VOLUME	583258.727	4157374.044 5.00
LOCATION	L0001111	VOLUME	583262.663	4157352.399 5.00
LOCATION	L0001112	VOLUME	583266.599	4157330.754 5.00
LOCATION	L0001113	VOLUME	583270.535	4157309.109 5.00
LOCATION	L0001114	VOLUME	583274.471	4157287.464 5.00
LOCATION	L0001115	VOLUME	583278.408	4157265.819 5.00
LOCATION	L0001116	VOLUME	583282.344	4157244.174 5.00
LOCATION	L0001117	VOLUME	583286.280	4157222.529 5.00
LOCATION	L0001118	VOLUME	583290.216	4157200.884 5.00
LOCATION	L0001119	VOLUME	583294.152	4157179.239 5.00
LOCATION	L0001120	VOLUME	583298.051	4157157.588 5.00
LOCATION	L0001121	VOLUME	583301.839	4157135.916 5.00
LOCATION	L0001122	VOLUME	583305.626	4157114.244 5.00
LOCATION	L0001123	VOLUME	583309.413	4157092.573 5.00
LOCATION	L0001124	VOLUME	583313.200	4157070.901 5.00
LOCATION	L0001125	VOLUME	583316.988	4157049.230 5.00
LOCATION	L0001126	VOLUME	583320.775	4157027.558 5.00
LOCATION	L0001127	VOLUME	583324.562	4157005.887 5.00
LOCATION	L0001128	VOLUME	583328.350	4156984.215 5.00
LOCATION	L0001129	VOLUME	583332.137	4156962.544 5.00
LOCATION	L0001130	VOLUME	583335.924	4156940.872 5.00
LOCATION	L0001131	VOLUME	583339.514	4156919.167 5.00
LOCATION	L0001132	VOLUME	583343.057	4156897.454 5.00
LOCATION	L0001133	VOLUME	583346.601	4156875.742 5.00
LOCATION	L0001134	VOLUME	583350.144	4156854.029 5.00
LOCATION	L0001135	VOLUME	583353.688	4156832.316 5.00
LOCATION	L0001136	VOLUME	583357.231	4156810.603 5.00
LOCATION	L0001137	VOLUME	583360.774	4156788.890 5.00
LOCATION	L0001138	VOLUME	583364.509	4156767.211 5.00
LOCATION	L0001139	VOLUME	583368.417	4156745.560 5.00
LOCATION	L0001140	VOLUME	583372.325	4156723.910 5.00
LOCATION	L0001141	VOLUME	583376.233	4156702.260 5.00
LOCATION	L0001142	VOLUME	583380.141	4156680.610 5.00

LOCATION L0001143 VOLUME 583384.049 4156658.960 5.00
LOCATION L0001144 VOLUME 583387.957 4156637.310 5.00
LOCATION L0001145 VOLUME 583391.847 4156615.657 5.00
LOCATION L0001146 VOLUME 583395.720 4156594.000 5.00
LOCATION L0001147 VOLUME 583399.593 4156572.344 5.00
LOCATION L0001148 VOLUME 583403.465 4156550.687 4.99
LOCATION L0001149 VOLUME 583407.338 4156529.031 4.86
LOCATION L0001150 VOLUME 583411.211 4156507.374 4.73
LOCATION L0001151 VOLUME 583415.083 4156485.718 4.60
LOCATION L0001152 VOLUME 583418.956 4156464.061 4.47
LOCATION L0001153 VOLUME 583422.829 4156442.405 4.18
LOCATION L0001154 VOLUME 583426.701 4156420.748 4.00
LOCATION L0001155 VOLUME 583430.574 4156399.092 4.00
LOCATION L0001156 VOLUME 583434.518 4156377.448 4.00
LOCATION L0001157 VOLUME 583438.489 4156355.810 4.00
LOCATION L0001158 VOLUME 583442.460 4156334.171 4.00
LOCATION L0001159 VOLUME 583446.431 4156312.532 4.00
LOCATION L0001160 VOLUME 583450.402 4156290.894 4.52
LOCATION L0001161 VOLUME 583454.374 4156269.255 5.00
LOCATION L0001162 VOLUME 583458.345 4156247.617 5.00
LOCATION L0001163 VOLUME 583462.058 4156225.932 5.00
LOCATION L0001164 VOLUME 583465.755 4156204.245 4.95
LOCATION L0001165 VOLUME 583469.453 4156182.558 5.00
LOCATION L0001166 VOLUME 583473.151 4156160.871 5.00
LOCATION L0001167 VOLUME 583476.849 4156139.184 5.00
LOCATION L0001168 VOLUME 583480.598 4156117.506 5.00
LOCATION L0001169 VOLUME 583484.410 4156095.839 5.00
LOCATION L0001170 VOLUME 583488.221 4156074.172 5.00
LOCATION L0001171 VOLUME 583492.033 4156052.504 5.00
LOCATION L0001172 VOLUME 583495.845 4156030.837 4.93
LOCATION L0001173 VOLUME 583499.657 4156009.170 4.98
LOCATION L0001174 VOLUME 583503.469 4155987.503 5.00
LOCATION L0001175 VOLUME 583507.281 4155965.835 5.00
LOCATION L0001176 VOLUME 583511.092 4155944.168 5.00
LOCATION L0001177 VOLUME 583514.904 4155922.501 5.00
LOCATION L0001178 VOLUME 583518.716 4155900.834 5.00
LOCATION L0001179 VOLUME 583522.517 4155879.164 5.00
LOCATION L0001180 VOLUME 583526.307 4155857.493 4.89
LOCATION L0001181 VOLUME 583530.097 4155835.822 4.93
LOCATION L0001182 VOLUME 583533.887 4155814.151 5.00
LOCATION L0001183 VOLUME 583537.677 4155792.480 5.00
LOCATION L0001184 VOLUME 583541.468 4155770.809 5.00
LOCATION L0001185 VOLUME 583545.258 4155749.138 5.00
LOCATION L0001186 VOLUME 583549.048 4155727.467 5.00
LOCATION L0001187 VOLUME 583552.838 4155705.796 5.00
LOCATION L0001188 VOLUME 583556.628 4155684.125 5.00
LOCATION L0001189 VOLUME 583560.418 4155662.454 5.00
LOCATION L0001190 VOLUME 583564.208 4155640.783 5.00
LOCATION L0001191 VOLUME 583567.998 4155619.112 5.00
LOCATION L0001192 VOLUME 583571.788 4155597.441 4.76
LOCATION L0001193 VOLUME 583575.578 4155575.769 4.84
LOCATION L0001194 VOLUME 583579.369 4155554.098 4.92
LOCATION L0001195 VOLUME 583583.159 4155532.427 4.19
LOCATION L0001196 VOLUME 583586.949 4155510.756 4.46

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  LOCATION L0001197     VOLUME   583590.739 4155489.085 4.81
  LOCATION L0001198     VOLUME   583594.529 4155467.414 4.99
  LOCATION L0001199     VOLUME   583598.319 4155445.743 5.00
  LOCATION L0001200     VOLUME   583602.109 4155424.072 5.00
  LOCATION L0001201     VOLUME   583605.899 4155402.401 5.00
  LOCATION L0001202     VOLUME   583609.689 4155380.730 5.00
** End of LINE VOLUME Source ID = C_PASS_D
  LOCATION IDLE_EAST    POINT     583415.540  4156457.420       4.590
** DESCRSRC Idle for eastbound trains
  LOCATION IDLE_WEST    POINT     583390.140  4156596.720       5.000
** DESCRSRC Idling trains westbound
  LOCATION EMGEN        POINT     583321.710  4156583.570       4.000
** DESCRSRC Emergency Generator
** Source Parameters **
** LINE VOLUME Source ID = ONROAD
  SRCPARAM L0001203       0.025     1.30     16.74     1.21
  SRCPARAM L0001204       0.025     1.30     16.74     1.21
  SRCPARAM L0001205       0.025     1.30     16.74     1.21
  SRCPARAM L0001206       0.025     1.30     16.74     1.21
  SRCPARAM L0001207       0.025     1.30     16.74     1.21
  SRCPARAM L0001208       0.025     1.30     16.74     1.21
  SRCPARAM L0001209       0.025     1.30     16.74     1.21
  SRCPARAM L0001210       0.025     1.30     16.74     1.21
  SRCPARAM L0001211       0.025     1.30     16.74     1.21
  SRCPARAM L0001212       0.025     1.30     16.74     1.21
  SRCPARAM L0001213       0.025     1.30     16.74     1.21
  SRCPARAM L0001214       0.025     1.30     16.74     1.21
  SRCPARAM L0001215       0.025     1.30     16.74     1.21
  SRCPARAM L0001216       0.025     1.30     16.74     1.21
  SRCPARAM L0001217       0.025     1.30     16.74     1.21
  SRCPARAM L0001218       0.025     1.30     16.74     1.21
  SRCPARAM L0001219       0.025     1.30     16.74     1.21
  SRCPARAM L0001220       0.025     1.30     16.74     1.21
  SRCPARAM L0001221       0.025     1.30     16.74     1.21
  SRCPARAM L0001222       0.025     1.30     16.74     1.21
  SRCPARAM L0001223       0.025     1.30     16.74     1.21
  SRCPARAM L0001224       0.025     1.30     16.74     1.21
  SRCPARAM L0001225       0.025     1.30     16.74     1.21
  SRCPARAM L0001226       0.025     1.30     16.74     1.21
  SRCPARAM L0001227       0.025     1.30     16.74     1.21
  SRCPARAM L0001228       0.025     1.30     16.74     1.21
  SRCPARAM L0001229       0.025     1.30     16.74     1.21
  SRCPARAM L0001230       0.025     1.30     16.74     1.21
  SRCPARAM L0001231       0.025     1.30     16.74     1.21
  SRCPARAM L0001232       0.025     1.30     16.74     1.21
  SRCPARAM L0001233       0.025     1.30     16.74     1.21
  SRCPARAM L0001234       0.025     1.30     16.74     1.21
  SRCPARAM L0001235       0.025     1.30     16.74     1.21
  SRCPARAM L0001236       0.025     1.30     16.74     1.21
  SRCPARAM L0001237       0.025     1.30     16.74     1.21
  SRCPARAM L0001238       0.025     1.30     16.74     1.21
  SRCPARAM L0001239       0.025     1.30     16.74     1.21
  SRCPARAM L0001240       0.025     1.30     16.74     1.21
  SRCPARAM L0001241       0.025     1.30     16.74     1.21
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   SRCPARAM L0001242        0.025     1.30     16.74      1.21
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** LINE VOLUME Source ID = C_PASS_D
   SRCPARAM L0001109    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001110    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001111    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001112    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001113    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001114    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001115    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001116    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001117    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001118    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001119    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001120    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001121    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001122    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001123    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001124    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001125    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001126    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001127    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001128    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001129    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001130    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001131    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001132    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001133    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001134    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001135    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001136    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001137    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001138    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001139    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001140    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001141    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001142    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001143    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001144    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001145    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001146    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001147    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001148    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001149    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001150    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001151    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001152    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001153    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001154    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001155    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001156    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001157    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001158    0.0106382979     5.60     10.23      5.22
   SRCPARAM L0001159    0.0106382979     5.60     10.23      5.22
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  SRCPARAM L0001160    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001161    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001162    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001163    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001164    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001165    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001166    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001167    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001168    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001169    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001170    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001171    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001172    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001173    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001174    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001175    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001176    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001177    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001178    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001179    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001180    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001181    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001182    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001183    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001184    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001185    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001186    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001187    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001188    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001189    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001190    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001191    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001192    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001193    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001194    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001195    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001196    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001197    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001198    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001199    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001200    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001201    0.0106382979     5.60    10.23     5.22
  SRCPARAM L0001202    0.0106382979     5.60    10.23     5.22
** ------------------------------------------------------------------
  SRCPARAM IDLE_EAST         1.0     4.600   351.000      3.73     0.625
  SRCPARAM IDLE_WEST         1.0     4.600   351.000      3.73     0.625
  SRCPARAM EMGEN             1.0     3.660   740.150      45.3     0.183
  URBANSRC ALL

  ** Variable Emissions Type: "By Hour / Day (HRDOW)"
  ** Variable Emission Scenario: "13hrs (5)"

  **
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** AERMOD Receptor Pathway
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RE STARTING
   INCLUDED Coast_Ops_HRA.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
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**
ME STARTING
   SURFFILE Coast_Ops_HRA.SFC
   PROFFILE Coast_Ops_HRA.PFL
   SURFDATA 93228 2013 Hayward_Airport
   UAIRDATA 93228 2013 Hayward_Airport
   PROFBASE 13.1 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD C_PASS_D COAST_OPS_HRA.AD\PE00G001.PLT 31
   PLOTFILE PERIOD EMGEN COAST_OPS_HRA.AD\PE00G002.PLT 32
   PLOTFILE PERIOD IDLE_EAS COAST_OPS_HRA.AD\PE00G003.PLT 33
   PLOTFILE PERIOD IDLE_WES COAST_OPS_HRA.AD\PE00G004.PLT 34
   PLOTFILE PERIOD ONRD_EX COAST_OPS_HRA.AD\PE00G005.PLT 35
   SUMMFILE Coast_Ops_HRA.sum
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/29/2023
** File: C:\Lakes\AERMOD View\CCJPA_2023\Niles_Shinn OPS\Niles_Shinn OPS.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
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CO STARTING
   TITLEONE C:\Lakes\AERMOD View\Niles_Shinn OPS\Niles_Shinn OPS.isc
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 1680000 Alameda_County
   POLLUTID PM_10
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL "Niles_Shinn OPS.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = N_PASS_D
** DESCRSRC Niles sub shinn str. passenger day (exisiting)
** PREFIX
** Length of Side = 22.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 11.22
** SZINIT = 5.22
** Nodes = 68
** 588998.934, 4157928.994, 18.00, 5.60, 10.23
** 589082.557, 4157958.488, 18.00, 5.60, 10.23
** 589153.341, 4157983.471, 18.00, 5.60, 10.23
** 589207.818, 4158003.249, 18.00, 5.60, 10.23
** 589266.458, 4158024.415, 18.00, 5.60, 10.23
** 589306.361, 4158039.335, 18.00, 5.60, 10.23
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** 589365.695, 4158060.154, 17.93, 5.60, 10.23
** 589413.579, 4158077.850, 17.29, 5.60, 10.23
** 589514.204, 4158113.937, 18.00, 5.60, 10.23
** 589571.804, 4158135.797, 18.00, 5.60, 10.23
** 589665.489, 4158168.066, 18.85, 5.60, 10.23
** 589767.155, 4158205.887, 20.00, 5.60, 10.23
** 589816.080, 4158222.543, 20.83, 5.60, 10.23
** 589886.865, 4158248.566, 21.00, 5.60, 10.23
** 589935.096, 4158265.222, 21.00, 5.60, 10.23
** 589996.512, 4158288.123, 21.00, 5.60, 10.23
** 590029.822, 4158299.573, 21.00, 5.60, 10.23
** 590113.098, 4158328.720, 21.00, 5.60, 10.23
** 590182.148, 4158354.743, 21.00, 5.60, 10.23
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LOCATION	L0002205	VOLUME	589775.075	4158208.583 20.00
LOCATION	L0002206	VOLUME	589795.901	4158215.673 20.06
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** Source Parameters **
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SRCPARAM L0002249	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002250	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002251	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002252	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002253	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002254	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002255	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002256	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002257	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002258	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002259	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002260	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002261	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002262	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002263	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002264	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002265	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002266	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002267	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002268	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002269	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002270	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002271	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002272	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002273	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002274	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002275	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002276	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002277	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002278	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002279	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002280	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002281	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002282	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002283	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002284	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002285	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002286	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002287	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002288	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002289	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002290	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002291	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002292	0.0053475936	5.60	10.23	5.22

SRCPARAM L0002293	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002294	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002295	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002296	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002297	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002298	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002299	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002300	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002301	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002302	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002303	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002304	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002305	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002306	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002307	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002308	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002309	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002310	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002311	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002312	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002313	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002314	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002315	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002316	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002317	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002318	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002319	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002320	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002321	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002322	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002323	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002324	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002325	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002326	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002327	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002328	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002329	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002330	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002331	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002332	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002333	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002334	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002335	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002336	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002337	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002338	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002339	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002340	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002341	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002342	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002343	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002344	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002345	0.0053475936	5.60	10.23	5.22
SRCPARAM L0002346	0.0053475936	5.60	10.23	5.22

```
  SRCPARAM L0002347    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002348    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002349    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002350    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002351    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002352    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002353    0.0053475936     5.60    10.23     5.22
  SRCPARAM L0002354    0.0053475936     5.60    10.23     5.22
** ----------------------------------------------------------------
  URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Day"

  SRCGROUP N_PASS_D L0002168 L0002169 L0002170 L0002171 L0002172 L0002173
  SRCGROUP N_PASS_D L0002174 L0002175 L0002176 L0002177 L0002178 L0002179
  SRCGROUP N_PASS_D L0002180 L0002181 L0002182 L0002183 L0002184 L0002185
  SRCGROUP N_PASS_D L0002186 L0002187 L0002188 L0002189 L0002190 L0002191
  SRCGROUP N_PASS_D L0002192 L0002193 L0002194 L0002195 L0002196 L0002197
  SRCGROUP N_PASS_D L0002198 L0002199 L0002200 L0002201 L0002202 L0002203
  SRCGROUP N_PASS_D L0002204 L0002205 L0002206 L0002207 L0002208 L0002209
  SRCGROUP N_PASS_D L0002210 L0002211 L0002212 L0002213 L0002214 L0002215
  SRCGROUP N_PASS_D L0002216 L0002217 L0002218 L0002219 L0002220 L0002221
  SRCGROUP N_PASS_D L0002222 L0002223 L0002224 L0002225 L0002226 L0002227
  SRCGROUP N_PASS_D L0002228 L0002229 L0002230 L0002231 L0002232 L0002233
  SRCGROUP N_PASS_D L0002234 L0002235 L0002236 L0002237 L0002238 L0002239
  SRCGROUP N_PASS_D L0002240 L0002241 L0002242 L0002243 L0002244 L0002245
  SRCGROUP N_PASS_D L0002246 L0002247 L0002248 L0002249 L0002250 L0002251
  SRCGROUP N_PASS_D L0002252 L0002253 L0002254 L0002255 L0002256 L0002257
  SRCGROUP N_PASS_D L0002258 L0002259 L0002260 L0002261 L0002262 L0002263
  SRCGROUP N_PASS_D L0002264 L0002265 L0002266 L0002267 L0002268 L0002269
  SRCGROUP N_PASS_D L0002270 L0002271 L0002272 L0002273 L0002274 L0002275
  SRCGROUP N_PASS_D L0002276 L0002277 L0002278 L0002279 L0002280 L0002281
  SRCGROUP N_PASS_D L0002282 L0002283 L0002284 L0002285 L0002286 L0002287
  SRCGROUP N_PASS_D L0002288 L0002289 L0002290 L0002291 L0002292 L0002293
  SRCGROUP N_PASS_D L0002294 L0002295 L0002296 L0002297 L0002298 L0002299
  SRCGROUP N_PASS_D L0002300 L0002301 L0002302 L0002303 L0002304 L0002305
  SRCGROUP N_PASS_D L0002306 L0002307 L0002308 L0002309 L0002310 L0002311
  SRCGROUP N_PASS_D L0002312 L0002313 L0002314 L0002315 L0002316 L0002317
  SRCGROUP N_PASS_D L0002318 L0002319 L0002320 L0002321 L0002322 L0002323
  SRCGROUP N_PASS_D L0002324 L0002325 L0002326 L0002327 L0002328 L0002329
  SRCGROUP N_PASS_D L0002330 L0002331 L0002332 L0002333 L0002334 L0002335
  SRCGROUP N_PASS_D L0002336 L0002337 L0002338 L0002339 L0002340 L0002341
  SRCGROUP N_PASS_D L0002342 L0002343 L0002344 L0002345 L0002346 L0002347
  SRCGROUP N_PASS_D L0002348 L0002349 L0002350 L0002351 L0002352 L0002353
  SRCGROUP N_PASS_D L0002354
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "Niles_Shinn OPS.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE "Niles_Shinn OPS.SFC"
   PROFFILE "Niles_Shinn OPS.PFL"
   SURFDATA 93228 2013 Hayward_Airport
   UAIRDATA 93228 2013
   PROFBASE 13.1 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD N_PASS_D "NILES_SHINN OPS.AD\PE00G001.PLT" 31
   SUMMFILE "Niles_Shinn OPS.sum"
OU FINISHED
**
****************************************
** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

Coast Operational HARP2 Run – Alternative E

HARP2 - HRACalc (dated 22118) 11/5/2023 16:39:19 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 1
Exposure frequency: 250

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: FAH changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Chronic_NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Chronic_NCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:37:17 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\REC_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\REC_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:54:30 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 1
Total Exposure Duration: 28.58

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 13.58
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Rec28.58_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Rec28.58_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:36:36 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\RES_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\RES_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:54:05 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 1
Total Exposure Duration: 28.58

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 13.58
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Res28.58_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Res28.58_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:46:06 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 12

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 12
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\School_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\School_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:55:54 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 4
Total Exposure Duration: 10.58

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 10.58
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\School10.58_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\School10.58_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:38:26 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES
GLC adjustment factor: 1
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\WORKER_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\WORKER_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/5/2023 16:55:07 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 23.58

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 23.58

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES
GLC adjustment factor: 1
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Worker23.58_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\Coast Op Alt E\hra\Worker23.58_CancerRiskSumByRec.csv
HRA ran successfully

Coast Operational HARP2 Run

HARP2 - HRACalc (dated 22118) 11/4/2023 19:53:20 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 27.59

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 13.59
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Rec 27.59_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Rec 27.59_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 17:52:55 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\REC_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\REC_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/4/2023 19:52:10 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 27.59

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 13.59
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Res 27.59_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Res 27.59_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 17:49:41 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Res_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Res_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/4/2023 20:04:13 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 3
Total Exposure Duration: 9.59

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 9.59
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\School 9.59_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\School 9.59_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 18:00:56 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 12

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 12
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\School_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\School_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/4/2023 19:53:57 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 22.59

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 22.59

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Worker 22.59_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Worker 22.59_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 17:50:35 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Worker_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\HARP2\COAST OPS\hra\Worker_CancerRiskSumByRec.csv
HRA ran successfully

Niles Existing Operational HARP2 Run

HARP2 - HRACalc (dated 22118) 11/2/2023 13:17:13 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\Rec_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\Rec_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 13:14:53 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\Res_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\Res_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 13:16:14 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 12

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 12
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\School_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\School_CancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 11/2/2023 13:13:37 - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: DBRs changed|FAH changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\Worker_CancerRisk.csv
Cancer risk total by receptor saved to: C:\HARP2 ADMRT\NILES EXISTING HRA\hra\Worker_CancerRiskSumByRec.csv
HRA ran successfully

Ardenwood Station Detailed Report

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5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Ardenwood Station
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.20
Precipitation (days)	35.2
Location	37.55134363689071, -122.05521130320885
County	Alameda
City	Fremont
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1638
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	21.4	1000sqft	0.49	21,450	0.00	—	—	—

Parking Lot	76.8	1000sqft	1.76	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.43	0.73	1.59	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	217	217	0.02	< 0.005	0.00	219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.28	0.27	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	214	214	0.02	< 0.005	0.00	215
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	0.30	0.60	1.00	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	192	192	0.02	< 0.005	0.00	193
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.06	0.06	0.11	0.18	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	31.8	31.8	< 0.005	< 0.005	0.00	32.0

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.17	0.17	0.01	0.93	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	81.8	81.8	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.45	0.43	0.73	1.59	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	217	217	0.02	< 0.005	0.00	219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	81.8	81.8	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.28	0.27	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	214	214	0.02	< 0.005	0.00	215
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.08	0.09	< 0.005	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.89	1.89	< 0.005	< 0.005	—	1.90
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	81.8	81.8	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Stationary	0.23	0.21	0.59	0.54	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	108	108	< 0.005	< 0.005	0.00	109
Total	0.31	0.30	0.60	1.00	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	192	192	0.02	< 0.005	0.00	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.01	0.02	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.31	0.31	< 0.005	< 0.005	—	0.31
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13.5	13.5	< 0.005	< 0.005	—	13.7
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.04	0.04	0.11	0.10	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17.9	17.9	< 0.005	< 0.005	0.00	18.0
Total	0.06	0.06	0.11	0.18	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	31.8	31.8	< 0.005	< 0.005	0.00	32.0

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	44.3	44.3	0.01	< 0.005	—	44.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6	0.01	< 0.005	—	38.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	81.8	81.8	0.01	< 0.005	—	82.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	44.3	44.3	0.01	< 0.005	—	44.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6	0.01	< 0.005	—	38.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	81.8	81.8	0.01	< 0.005	—	82.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	7.33	7.33	< 0.005	< 0.005	—	7.40
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	6.22	6.22	< 0.005	< 0.005	—	6.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	13.5	13.5	< 0.005	< 0.005	—	13.7

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.15	0.01	0.93	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.17	0.17	0.01	0.93	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.31	0.31	< 0.005	< 0.005	—	0.31
Total	0.01	0.02	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.31	0.31	< 0.005	< 0.005	—	0.31

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.04	0.04	0.11	0.10	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17.9	17.9	< 0.005	< 0.005	0.00	18.0
Total	0.04	0.04	0.11	0.10	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17.9	17.9	< 0.005	< 0.005	0.00	18.0

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	965	107	5,893

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	79,181	204	0.0330	0.0040	0.00
Parking Lot	67,242	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	150	314	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	3.25	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	9.76	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	0	0	0	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—

AQ-Ozone	13.6
AQ-PM	22.4
AQ-DPM	83.5
Drinking Water	8.28
Lead Risk Housing	6.34
Pesticides	29.0
Toxic Releases	37.4
Traffic	89.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	48.5
Haz Waste Facilities/Generators	70.9
Impaired Water Bodies	12.5
Solid Waste	0.00
Sensitive Population	—
Asthma	32.7
Cardio-vascular	40.4
Low Birth Weights	90.0
Socioeconomic Factor Indicators	—
Education	13.1
Housing	16.9
Linguistic	59.8
Poverty	0.20
Unemployment	32.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.35570384
Employed	54.83125882
Median HI	97.53625048
Education	—
Bachelor's or higher	97.60041062
High school enrollment	13.01167715
Preschool enrollment	55.49852432
Transportation	—
Auto Access	62.47914795
Active commuting	67.0088541
Social	—
2-parent households	90.4914667
Voting	52.58565379
Neighborhood	—
Alcohol availability	46.83690491
Park access	81.35506224
Retail density	47.95329142
Supermarket access	10.66341589
Tree canopy	56.84588733
Housing	—
Homeownership	59.50211728
Housing habitability	81.47055049
Low-inc homeowner severe housing cost burden	97.86988323
Low-inc renter severe housing cost burden	72.66777878
Uncrowded housing	41.35762864

Health Outcomes	—
Insured adults	99.49955088
Arthritis	98.3
Asthma ER Admissions	52.1
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	99.9
Coronary Heart Disease	98.9
Chronic Obstructive Pulmonary Disease	99.6
Diagnosed Diabetes	95.7
Life Expectancy at Birth	98.6
Cognitively Disabled	92.5
Physically Disabled	86.7
Heart Attack ER Admissions	32.5
Mental Health Not Good	99.6
Chronic Kidney Disease	98.6
Obesity	99.8
Pedestrian Injuries	19.6
Physical Health Not Good	99.4
Stroke	98.8
Health Risk Behaviors	—
Binge Drinking	94.8
Current Smoker	98.8
No Leisure Time for Physical Activity	87.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	50.5

Children	11.1
Elderly	89.5
English Speaking	53.2
Foreign-born	98.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.3
Traffic Density	80.8
Traffic Access	48.7
Other Indices	—
Hardship	25.7
Other Decision Support	—
2016 Voting	54.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	32.0
Healthy Places Index Score for Project Location (b)	92.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Emergency Generators and Fire Pumps	provided by applicant

Alternative E – Mitigated Emissions Calculation Sheet

Code	Description	Start Date	Working Days	2027	2028	2029		End Date
Elmhurst-Williams	Elmhurst to Williams St. Crossing							
Elmhurst-WilliamsSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsRWProduction	Rail Work (Production)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsStr	Structures	4/1/2027	54	54	0	0	-	6/15/2027
Elmhurst-WilliamsRdwy	Roadway Work	5/1/2027	22	22	0	0	-	6/1/2027
Williams-MtEden	Williams St. Crossing to N. Mt Eden Siding						-	
Williams-MtEdenSW	Site Work	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenUtil	Utilities	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenRWPrep	Rail Work (Prep)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenRWProduction	Rail Work (Production)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenStr	Structures	5/15/2027	143	143	0	0	-	12/1/2027
Williams-MtEdenRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
MtEden-Baumberg	N. Mt. Eden Siding to Baumberg Ave.						-	
MtEden-BaumbergSW	Site Work	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergUtil	Utilities	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergRWPrep	Rail Work (Prep)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergRWProduction	Rail Work (Production)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergStr	Structures	12/1/2027	131	23	108	0	-	6/1/2028
MtEden-BaumbergRdwy	Roadway Work	5/1/2028	22	0	22	0	-	6/1/2028
Baumberg-Alvarado	Baumberg Ave. Crossing to Alvarado Blvd Crossing						-	
Baumberg-AlvaradoSW	Site Work	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoUtil	Utilities	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoRWProduction	Rail Work (Production)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoStr	Structures	5/1/2028	153	0	153	0	-	12/1/2028
Baumberg-AlvaradoRdwy	Roadway Work	9/1/2028	44	0	44	0	-	11/1/2028
Alvarado-Lowry	Alvarado Blvd Crossing to Lowry Road OP						-	
Alvarado-LowrySW	Site Work	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryUtil	Utilities	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryRWPrep	Rail Work (Prep)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryRWProduction	Rail Work (Production)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryStr	Structures	9/1/2028	129	0	86	43	-	3/1/2029
Alvarado-LowryRdwy	Roadway Work	4/1/2028	31	0	31	0	-	5/15/2028
Lowry-Ardenwood	Lowry Rd OP to Ardenwood Blvd. OP						-	
Lowry-ArdenwoodSW	Site Work	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodUtil	Utilities	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodRWProduction	Rail Work (Production)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodStr	Structures	12/1/2027	218	23	195	0	-	10/1/2028
Lowry-ArdenwoodRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Ardenwood-Jarvis	Ardenwood Blvd OP to Jarvis Rd.						-	
Ardenwood-JarvisSW	Site Work	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisUtil	Utilities	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisRWPrep	Rail Work (Prep)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisRWProduction	Rail Work (Production)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisStr	Structures	9/1/2027	65	65	0	0	-	12/1/2027
Ardenwood-JarvisSta	Station	2/1/2028	261	0	239	22	-	2/1/2029
Ardenwood-JarvisRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Jarvis-Thornton	Jarvis Rd. to Thornton Ave.						-	
Jarvis-ThorntonSW	Site Work	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonUtil	Utilities	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonRWPrep	Rail Work (Prep)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonRWProduction	Rail Work (Production)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonStr	Structures	6/1/2027	87	87	0	0	-	10/1/2027
Jarvis-ThorntonRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
Thornton-Newark	Thornton Ave. to S. Newark Yard						-	
Thornton-NewarkSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkRWPrep	Rail Work (Prep)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkRWProduction	Rail Work (Production)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkStr	Structures	4/1/2027	44	44	0	0	-	6/1/2027
Thornton-NewarkRdwy	Roadway Work	7/1/2027	22	22	0	0	-	8/1/2027

Code	Working Days			2027												2028												2029											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2027	2028	2029	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	COZe	Fuel
Alternative E				**0**	**5**	**13**	**0**	**0**	**2**	**1**	**0**	**3,498**	**0**	**0**	**3,557**	**156,358**	**1**	**6**	**15**	**0**	**0**	**2**	**1**	**0**	**3,969**	**0**	**0**	**4,033**	**177,702**	**0**	**1**	**3**	**0**	**0**	**0**	**0**	**0**	**666**	**0**	**0**	**675**	**29,648**
Off-Road				**0**	**1**	**6**	**0**	**0**	**0**	**0**	**0**	**1054**	**0**	**0**	**1057**	**46,805**	**0**	**1**	**6**	**0**	**0**	**0**	**0**	**0**	**1009**	**0**	**0**	**1013**	**44,837**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**136**	**0**	**0**	**137**	**6,060**
Elmhurst-Williams				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***222***	***0***	***0***	***223***	***9,623***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	50	0	0	50	2,203																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	10	0	0	10	453																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	43	0	0	43	1,894																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	57	0	0	57	2,524																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	15	0	0	15	666																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	38	0	0	38	1,683																									
Williams-MtEden				***0***	***0***	***3***	***0***	***0***	***0***	***0***	***0***	***440***	***0***	***0***	***442***	***19,566***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***4,410***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	1	0	0	0	0	0	90	0	0	90	4,004	0	0	0	0	0	0	0	0	1	0	0	1	31												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	17	0	0	17	740	0	0	0	0	0	0	0	0	0	0	0	0	6												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	26	0	0	26	1,155	0	0	0	0	0	0	0	0	37	0	0	37	1,631												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	44	0	0	44	1,941	0	0	0	0	0	0	0	0	62	0	0	62	2,742												
Williams-MtEdenStr	143	-	-	0	0	1	0	0	0	0	0	131	0	0	132	5,836																									
Williams-MtEdenRdwy	44	-	-	0	0	1	0	0	0	0	0	133	0	0	133	5,890																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***417***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***206***	***0***	***0***	***206***	***9,138***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	41	0	0	41	1,810												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	10	0	0	10	459												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	35	0	0	35	1,552												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	56	0	0	56	2,468												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	9	0	0	9	417	0	0	0	0	0	0	0	0	44	0	0	44	1,955												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	20	0	0	20	893												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***240***	***0***	***0***	***241***	***10,673***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***63***	***0***	***0***	***64***	***2,821***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	38	0	0	38	1,667	0	0	0	0	0	0	0	0	10	0	0	10	451
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	8	0	0	8	342	0	0	0	0	0	0	0	0	2	0	0	2	93
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	20	0	0	20	876	0	0	0	0	0	0	0	0	20	0	0	20	870
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	32	0	0	32	1,416	0	0	0	0	0	0	0	0	32	0	0	32	1,406
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	77	0	0	77	3,426												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	66	0	0	67	2,945												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***116***	***0***	***0***	***116***	***5,136***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***59***	***0***	***0***	***59***	***2,615***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	24	0	0	24	1,063	0	0	0	0	0	0	0	0	13	0	0	13	567
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	3	0	0	3	132	0	0	0	0	0	0	0	0	1	0	0	1	47
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	16	0	0	16	723	0	0	0	0	0	0	0	0	10	0	0	10	440
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	5	0	0	5	206	0	0	0	0	0	0	0	0	13	0	0	13	575
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	44	0	0	44	1,960	0	0	0	0	0	0	0	0	22	0	0	22	987
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	24	0	0	24	1,052												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***379***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***178***	***0***	***0***	***179***	***7,909***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	46	0	0	47	2,064												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	260												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	22	0	0	22	960												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	32	0	0	32	1,416												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	9	0	0	9	379	0	0	0	0	0	0	0	0	72	0	0	72	3,210												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***1,814***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***170***	***0***	***0***	***171***	***7,572***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***624***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	10	0	0	10	457	0	0	0	0	0	0	0	0	5	0	0	5	210												
Ardenwood-JarvisUtil	45	21	-	0	0	0	0	0	0	0	0	2	0	0	2	101	0	0	0	0	0	0	0	0	1	0	0	1	47												
Ardenwood-JarvisRWPrep	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	166	0	0	0	0	0	0	0	0	7	0	0	7	303												
Ardenwood-JarvisRWProduction	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	198	0	0	0	0	0	0	0	0	8	0	0	8	361												
Ardenwood-JarvisStr	65	-	-	0	0	0	0	0	0	0	0	20	0	0	20	893																									
Ardenwood-JarvisSta	-	239	22														0	0	1	0	0	0	0	0	150	0	0	150	6,652	0	0	0	0	0	0	0	0	14	0	0	14	624
Ardenwood-JarvisRdwy	-	-	-																																						
Jarvis-Thornton				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***156***	***0***	***0***	***157***	***6,944***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Jarvis-ThorntonSW	66	-	-	0	0	0	0	0	0	0	0	24	0	0	24	1,053																									
Jarvis-ThorntonUtil	66	-	-	0	0	0	0	0	0	0	0	5	0	0	5	233																									
Jarvis-ThorntonRWPrep	65	-	-	0	0	0	0	0	0	0	0	18	0	0	19	821																									
Jarvis-ThorntonRWProduction	65	-	-	0	0	0	0	0	0	0	0	28	0	0	28	1,230																									
Jarvis-ThorntonStr	87	-	-	0	0	0	0	0	0	0	0	29	0	0	29	1,293																									
Jarvis-ThorntonRdwy	44	-	-	0	0	0	0	0	0	0	0	52	0	0	52	2,314																									
Thornton-Newark				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***186***	***0***	***0***	***187***	***8,263***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Thornton-NewarkSW	87	-	-	0	0	0	0	0	0	0	0	27	0	0	27	1,197																									
Thornton-NewarkUtil	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	288																									
Thornton-NewarkRWPrep	88	-	-	0	0	0	0	0	0	0	0	26	0	0	26	1,138																									
Thornton-NewarkRWProduction	88	-	-	0	0	0	0	0	0	0	0	21	0	0	21	942																									
Thornton-NewarkStr	44	-	-	0	0	0	0	0	0	0	0	6	0	0	6	281																									
Thornton-NewarkRdwy	22	-	-	0	0	1	0	0	0	0	0	99	0	0	100	4,417																									
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**135**	**0**	**0**	**136**	**6,963**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**188**	**0**	**0**	**190**	**9,724**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**9**	**467**
Elmhurst-Williams				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***43***	***2,215***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	315																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	3	0	0	3	157																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	7	0	0	7	348																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	19	0	0	20	1,007																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	5	0	0	5	252																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	3	0	0	3	136																									
Williams-MtEden				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***55***	***2,837***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***31***	***0***	***0***	***32***	***1,626***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	0	0	0	0	0	0	9	0	0	9	471	0	0	0	0	0	0	0	0	0	0	0	0	4												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	5	0	0	5	236	0	0	0	0	0	0	0	0	0	0	0	0	2												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	6	0	0	6	325	0	0	0	0	0	0	0	0	9	0	0	9	450												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	16	0	0	17	846	0	0	0	0	0	0	0	0	23	0	0	23	1,170												
Williams-MtEdenStr	143	-	-	0	0	0	0	0	0	0	0	14	0	0	14	723																									
Williams-MtEdenRdwy	44	-	-	0	0	0	0	0	0	0	0	5	0	0	5	236																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***	***0***	***0***	***2***	***116***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***54***	***0***	***0***	***55***	***2,805***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	309												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	154												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	9	0	0	9	465												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	23	0	0	24	1,210												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	2	0	0	2	116	0	0	0	0	0	0	0	0	10	0	0	10	534												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	3	0	0	3	133												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***56***	***2,850***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***20***	***0***	***0***	***20***	***1,048***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	12	0	0	12	609	0	0	0	0	0	0	0	0	3	0	0	3	162
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	3	0	0	3	152	0	0	0	0	0	0	0	0	1	0	0	1	40
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	3	0	0	3	152	0	0	0	0	0	0	0	0	3	0	0	3	148
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	14	0	0	14	716	0	0	0	0	0	0	0	0	13	0	0	14	697
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	15	0	0	15	758												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	9	0	0	9	463												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***1,898***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***29***	***0***	***0***	***29***	***1,493***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	9	0	0	9	460	0	0	0	0	0	0	0	0	3	0	0	3	159
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	2	0	0	2	115	0	0	0	0	0	0	0	0	1	0	0	1	40
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	1	0	0	1	74	0	0	0	0	0	0	0	0	4	0	0	4	185
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	7	0	0	7	349	0	0	0	0	0	0	0	0	17	0	0	17	870
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	9	0	0	10	487	0	0	0	0	0	0	0	0	5	0	0	5	240
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	8	0	0	8	412												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***4***	***0***	***0***	***4***	***183***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***70***	***0***	***0***	***71***	***3,615***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	12	0	0	12	617												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	154												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	5	0	0	5	233												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	21	0	0	21	1,094												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	4	0	0	4	183	0	0	0	0	0	0	0	0	29	0	0	30	1,518												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***23***	***0***	***0***	***24***	***1,209***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***118***	***0***	***0***	***119***	***6,108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***467***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	6	0	0	6	325	0	0	0	0	0	0	0	0	3	0	0	3	147												

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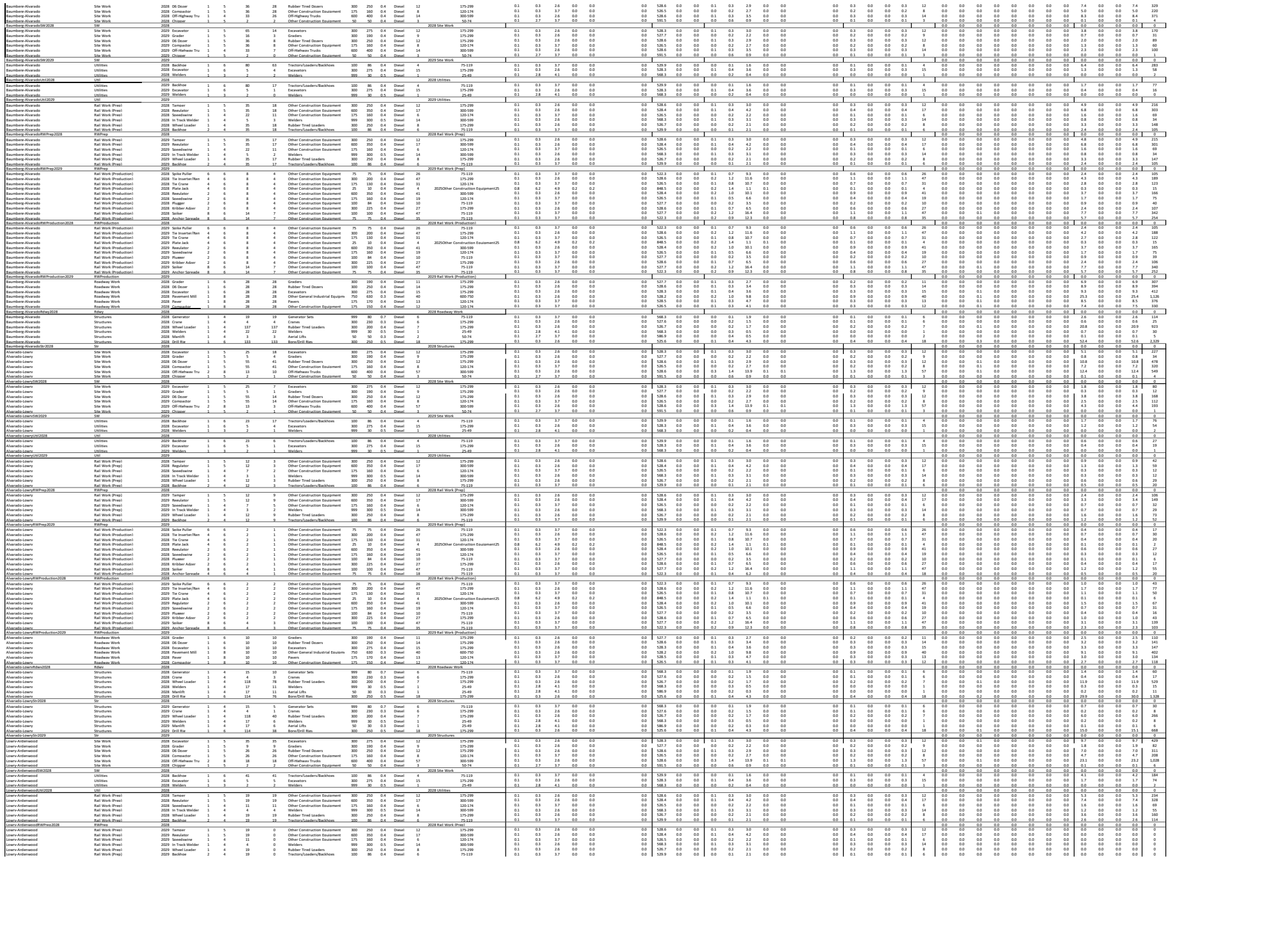
Offroad Calculations | Location: Omsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalEEMod)							Pounds per day							Metric tons per day					Gal per day	Tons per year							Metric tons per year					Gal per Year
															ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	Site Work	2027	Excavator	1	5	65	65	Excavators	300	275	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.3	3.0	0.0	0.0			0.0	533.1	0.0	0.0	0.0	13	0.0	0.0	0.1	0.0	0.0			0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.1	0.0	0.0	0.0	0.0	17.9	0.0	0.0	18.0	797
Elmhurst-Williams	Site Work	2027	Grader	1	5	14	14	Graders	300	190	0.4	Diesel	9	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.7	0.0	0.0	0.2	2.2	0.0	0.0	0.0			0.0	532.3	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	2.9	128
Elmhurst-Williams	Site Work	2027	D6 Dozer	1	5	41	41	Rubber Tired Dozers	300	250	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.9	0.0	0.0			0.0	533.4	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.8	480
Elmhurst-Williams	Site Work	2027	Compactor	1	5	41	41	Other Construction Equipment	175	160	0.4	Diesel	8	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	7.3	321
Elmhurst-Williams	Site Work	2027	Off-Highway Tru	1	4	33	33	Off-Highway Trucks	600	400	0.4	Diesel	14	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.6	0.0	0.0			0.0	533.4	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	10.6	471
Elmhurst-Williams	Site Work	2027	Chipper	1	5	2	2	Other Construction Equipment	50	50	0.4	Diesel	3	50-74	0.1	2.7	3.7	0.0	0.0			0.0	591.5	0.0	0.0	0.1	2.7	3.7	0.0	0.0			0.0	597.9	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
Elmhurst-WilliamsSW2027	SW	2027						2027 Site Work																																														
Elmhurst-Williams	Utilities	2027	Backhoe	1	6	67	67	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	4	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.1	1.6	0.0	0.0				0.0	533.8	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.8	301
Elmhurst-Williams	Utilities	2027	Excavator	1	6	10	10	Excavators	300	275	0.4	Diesel	15	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.4	3.6	0.0	0.0			0.0	533.3	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	147
Elmhurst-Williams	Utilities	2027	Welders	1	3	5	5	Welders	999	30	0.5	Diesel	1	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.2	0.4	0.0	0.0			0.0	573.1	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	5
Elmhurst-WilliamsUtil2027	Util	2027						2027 Utilities																																														
Elmhurst-Williams	Rail Work (Prep)	2027	Tamper	1	5	40	40	Other Construction Equipment	300	250	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	3.0	0.0	0.0			0.0	533.4	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	11.1	493
Elmhurst-Williams	Rail Work (Prep)	2027	Reeulator	1	5	40	40	Other Construction Equipment	600	350	0.4	Diesel	17	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.4	0.0	0.0	0.1	0.4	4.2	0.0	0.0			0.0	533.2	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	15.6	690
Elmhurst-Williams	Rail Work (Prep)	2027	Speedswine	1	4	22	22	Other Construction Equipment	175	160	0.4	Diesel	6	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.2	2.2	0.0	0.0			0.0	531.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	3.1	138
Elmhurst-Williams	Rail Work (Prep)	2027	In Track Welder	1	4	6	6	Welders	999	30	0.5	Diesel	14	300-599	0.1	0.3	2.6	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.3	3.1	0.0	0.0			0.0	573.1	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.8	82
Elmhurst-Williams	Rail Work (Prep)	2027	Wheel Loader	1	4	34	34	Rubber Tired Loaders	300	250	0.4	Diesel	8	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.2	0.2	2.1	0.0	0.0			0.0	531.2	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	6.5	286
Elmhurst-Williams	Rail Work (Prep)	2027	Backhoe	2	4	34	34	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	6	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.1	1.2	0.0	0.0	0.0			0.0	533.8	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	204
Elmhurst-WilliamsRWPrep2027	RWPrep	2027						2027 Rail Work (Prep)																																														
Elmhurst-Williams	Rail Work (Production)	2027	Spike Puller	6	6	7	7	Other Construction Equipment	75	75	0.4	Diesel	26	75-119	0.1	0.3	3.7	0.0	0.0			0.0	522.3	0.0	0.0	0.1	0.7	9.3	0.0	0.0			0.0	532.1	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	176
Elmhurst-Williams	Rail Work (Production)	2027	Tie Inserter/Ren	4	6	7	7	Other Construction Equipment	300	200	0.4	Diesel	47	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.2	1.2	11.6	0.0	0.0			0.0	541.5	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	7.1	316
Elmhurst-Williams	Rail Work (Production)	2027	Tie Crane	4	6	7	7	Other Construction Equipment	175	130	0.4	Diesel	31	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.1	0.8	10.7	0.0	0.0			0.0	537.9	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	205
Elmhurst-Williams	Rail Work (Production)	2027	Plate Jack	4	6	7	7	Other Construction Equipment	25	10	0.4	Diesel	4	2025Other Construction Equipment25	0.8	6.2	4.9	0.2	0.2			0.0	848.5	0.0	0.0	0.2	1.4	1.1	0.1	0.0			0.0	851.4	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	27
Elmhurst-Williams	Rail Work (Production)	2027	Reeulator	2	6	7	7	Other Construction Equipment	600	350	0.4	Diesel	41	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.4	0.0	0.0	0.2	1.0	10.1	0.0	0.0			0.0	539.9	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	6.2	277
Elmhurst-Williams	Rail Work (Production)	2027	Speedswing	2	6	7	7	Other Construction Equipment	175	160	0.4	Diesel	19	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	126
Elmhurst-Williams	Rail Work (Production)	2027	Plueser	2	6	7	7	Other Construction Equipment	100	84	0.4	Diesel	10	75-119	0.1	0.3	3.7	0.0	0.0			0.0	527.7	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.9	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	1.5	66
Elmhurst-Williams	Rail Work (Production)	2027	Bolter Adzer	2	6	7	7	Other Construction Equipment	300	225	0.4	Diesel	27	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.7	0.0	0.0			0.0	533.4	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	178
Elmhurst-Williams	Rail Work (Production)	2027	Spiker	8	6	14	14	Other Construction Equipment	100	100	0.4	Diesel	47	75-119	0.1	0.3	3.7	0.0	0.0			0.0	527.7	0.0	0.0	0.2	1.2	16.4	0.0	0.0			0.0	545.4	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	11.2	492
Elmhurst-Williams	Rail Work (Production)	2027	Anchor Separade	8	6	14	14	Other Construction Equipment	75	75	0.4	Diesel	35	75-119	0.1	0.3	3.7	0.0	0.0			0.0	522.3	0.0	0.0	0.2	0.9	12.3	0.0	0.0			0.0	535.5	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	8.4	371
Elmhurst-WilliamsRWProduction2027	RWProduction	2027						2027 Rail Work (Production)																																													
Elmhurst-Williams	Structures	2027	Generator	1	4	15	15	Generator Sets	999	80	0.7	Diesel	6	75-119	0.1	0.3	3.7	0.0	0.0			0.0	568.3	0.0	0.0	0.1	1.9	0.0	0.0	0.0			0.0	573.1	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	90
Elmhurst-Williams	Structures	2027	Crane	1	4	22	22	Cranes	300	230	0.3	Diesel	6	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.6	0.0	0.0	0.0	0.2	1.5	0.0	0.0			0.0	531.2	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
Elmhurst-Williams	Structures	2027	Wheel Loader	1	4	33	33	Rubber Tired Loaders	300	200	0.4	Diesel	7	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.0	0.2	1.7	0.0	0.0			0.0	530.6	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	8
Elmhurst-Williams	Structures	2027	Welders	1	4	10	10	Welders	999	30	0.5	Diesel	1	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.2	0.5	0.0	0.0			0.0	573.1	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	4
Elmhurst-Williams	Structures	2027	Roush Terrain F	1	3	10	10	Forklifts	75	75	0.2	Diesel	1	75-119	0.1	0.3	3.7	0.0	0.0			0.0	520.5	0.0	0.0	0.0	0.4	0.4	0.0	0.0			0.0	521.3	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	10
Elmhurst-Williams	Structures	2027	Drill Rig	1	6	11	11	Bore/Drill Rigs	300	250	0.5	Diesel	18	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	4.3	0.0	0.0			0.0	534.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	14
Elmhurst-WilliamsStr2027	Str	2027						2027 Structures																																													
Elmhurst-Williams	Roadway Work	2027	Grader	1	6	16	16	Graders	300	190	0.4	Diesel	11	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.7	0.0	0.0	0.1	0.3	2.7	0.0	0.0			0.0	532.3	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	4.0	175
Elmhurst-Williams	Roadway Work	2027	D6 Dozer	1	6	16	16	Rubber Tired Dozers	300	250	0.4	Diesel	14	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	3.4	0.0	0.0			0.0	533.5	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	5.1	225
Elmhurst-Williams	Roadway Work	2027	Excavator	1	6	16	16	Excavators	300	275	0.4	Diesel	15	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.4	3.6	0.0	0.0			0.0	533.3	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.8	167
Elmhurst-Williams	Roadway Work	2027	Pavement Mill	1	8	16	16	Other General Industrial Equipm	750	630	0.3	Diesel	40	600-750	0.1	0.3	2.6	0.0	0.0			0.0	528.2	0.0	0.0	0.2	1.0	9.8	0.0	0.0			0.0	539.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	14.5	643
Elmhurst-Williams	Roadway Work	2027	Paver	1	8	16	16	Pavers	175	170	0.4	Diesel	13	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.1	0.3	4.7	0.0	0.0			0.0	534.5	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	4.8	215
Elmhurst-Williams	Roadway Work	2027	Compactor	1	8	16	16	Other Construction Equipment	175	160	0.4	Diesel	8	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	189
Elmhurst-WilliamsRdwy2027	Rdwy	2027						2027 Roadway Work																																													
Williams-Mitden	Site Work	2027	Excavator	1	5	105	104	Excavators	300	275	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.3	3.0	0.0	0.0			0.0	533.1	0.0	0.0	0.0	12	0.0	0.0	0.1	0.0	0.0			0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	0.0	0.0	28.8	1,278
Williams-Mitden	Site Work	2027	Grader	1	5	27	27	Graders	300	190	0.4	Diesel	9	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.7	0.0	0.0	0.2	2.2	0.0	0.0	0.0			0.0	532.3	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	5.5	245
Williams-Mitden	Site Work	2027	D6 Dozer	1	5	89	88	Rubber Tired Dozers	300	250	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.9	0.0	0.0			0.0	533.4	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.8	480
Williams-Mitden	Site Work	2027	Compactor	1	5	89	88	Other Construction Equipment	175	160	0.4	Diesel	8	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	7.2	321
Williams-Mitden	Site Work	2027	Off-Highway Tru	1	4	53	53	Off-Highway Trucks	600	400	0.4	Diesel	14	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.6	0.0	0.0			0.0	533.4	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	10.6	471
Williams-Mitden	Site Work	2027	Chipper	1	5	0	0	Other Construction Equipment	50	50	0.4	Diesel	3	50-74	0.1	2.7	3.7	0.0	0.0			0.0	591.5	0.0	0.0	0.1	2.7	3.7	0.0	0.0			0.0	597.9	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
Williams-MittenSW2027	SW	2027						2027 Site Work																																												
Williams-Mitden	Site Work	2028	Exc



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Employee Onroad Calculations | Location | Onsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle	g/mi (EMFAC, AP-42)														Process g/trip (EMFAC)													Pounds per day													Metric tons per day					Gal per day
													2	3	4	5	7	8	9	10	11	12	13	14	15	16	18	17	19	20	21	22	23	24																									
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	Elmhurst-WilliamsSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Elmhurst-Williams	Elmhurst-WilliamsUtil2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.1	1.1	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0.0	0	7
Elmhurst-Williams	Elmhurst-WilliamsRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.3	0.2	3.1	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
Elmhurst-Williams	Elmhurst-WilliamsRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.8	0.2	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
Elmhurst-Williams	Elmhurst-WilliamsSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Elmhurst-Williams	Elmhurst-WilliamsUtil2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.1	1.0	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.2	0.2	2.9	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	18
Elmhurst-Williams	Elmhurst-WilliamsRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.2	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
Elmhurst-Williams	Elmhurst-WilliamsSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Elmhurst-Williams	Elmhurst-WilliamsUtil2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	6	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.1	0.9	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.2	0.2	2.7	0.0	0.0	3.1	0.8	0.0	0	0.0	0.0	0.0	0	18
Elmhurst-Williams	Elmhurst-WilliamsRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.9	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	5	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Williams-MtEden	Williams-MtEdenUtil2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Williams-MtEden	Williams-MtEdenRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.2	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0.0	0	7
Williams-MtEden	Williams-MtEdenRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.3	0.2	3.1	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
Williams-MtEden	Williams-MtEdenRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.9	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Williams-MtEden	Williams-MtEdenUtil2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Williams-MtEden	Williams-MtEdenRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.7	0.2	0.0	0.7	0.2	0.0	0	0.0	0.0	0.0	0	7
Williams-MtEden	Williams-MtEdenRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.2	0.2	2.9	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	18
Williams-MtEden	Williams-MtEdenRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	3	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	3
Williams-MtEden	Williams-MtEdenUtil2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Williams-MtEden	Williams-MtEdenRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0.0	0	7
Williams-MtEden	Williams-MtEdenRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.2	0.2	2.7	0.0	0.0	3.1	0.8	0.0	0	0.0	0.0	0.0	0	18
Williams-MtEden	Williams-MtEdenRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	5	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
MtEden-Baumberg	MtEden-BaumbergSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
MtEden-Baumberg	MtEden-BaumbergUtil2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
MtEden-Baumberg	MtEden-BaumbergRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.2	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0.0	0	7
MtEden-Baumberg	MtEden-BaumbergRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.3	0.2	3.1	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
MtEden-Baumberg	MtEden-BaumbergRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
MtEden-Baumberg	MtEden-BaumbergStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
MtEden-Baumberg	MtEden-BaumbergSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
MtEden-Baumberg	MtEden-BaumbergUtil2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
MtEden-Baumberg	MtEden-BaumbergRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.7	0.2	0.0	0.7	0.2	0.0	0	0.0	0.0	0.0	0	7
MtEden-Baumberg	MtEden-BaumbergRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.2	0.2	2.9	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
MtEden-Baumberg	MtEden-BaumbergRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
MtEden-Baumberg	MtEden-BaumbergStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Baumberg-Alvarado	Baumbera-AlvaradoSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40

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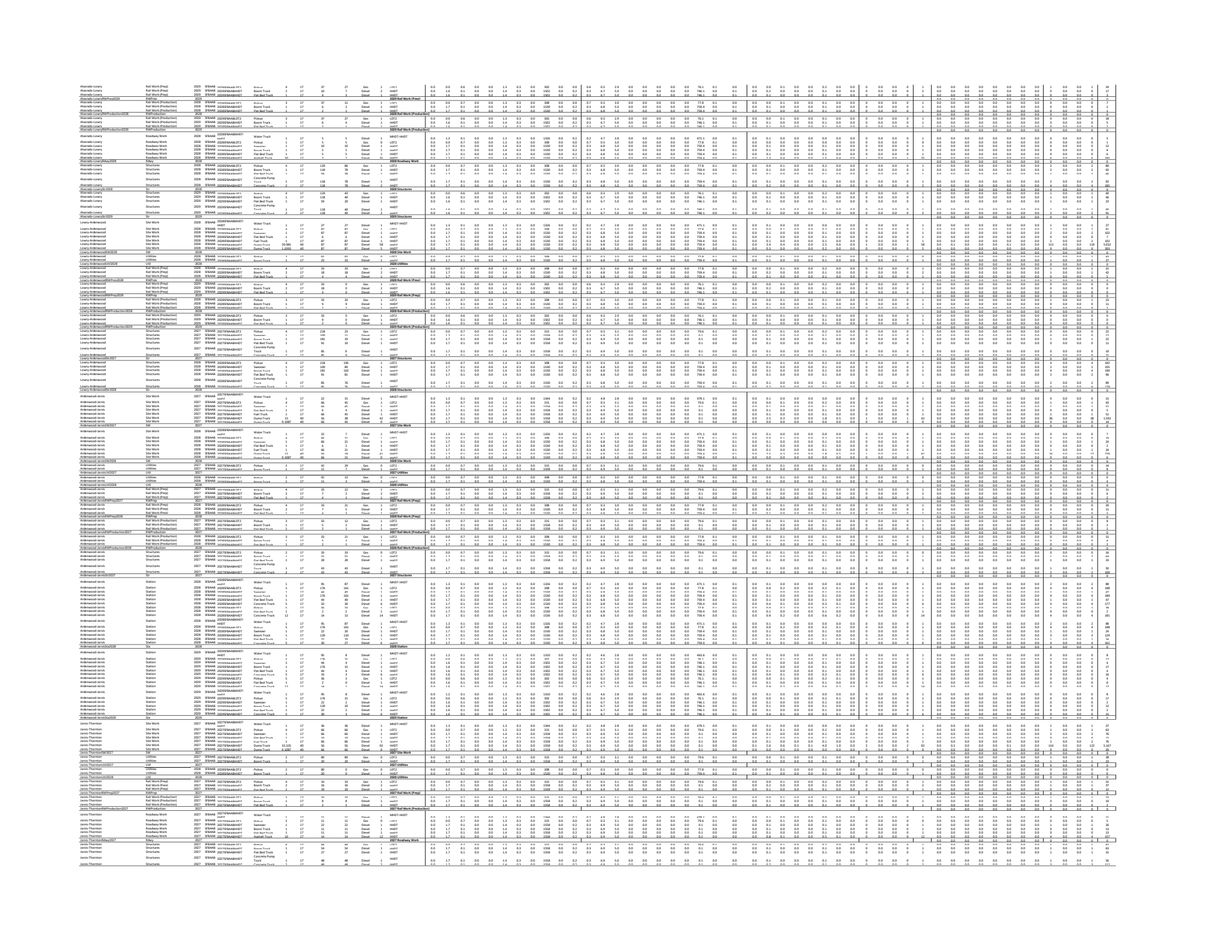
Offsite Onroad Calculations | Location | Offsite

| Project | Activity | Year | Air Basin | Concat | Vehicle | Trucks | RT MI/ Truck | Equipment Days | Year Adjustment | Fuel | Fuel (gal/day) | Vehicle | g/mi (EMFAC AP 42) | | | | | | | | | | | | Process g/trip (EMFAC) | | | | | | | | | | | | Pounds per day | | | | | | | | | | | | Metric tons per day | | | | | | Gal per day | Tons per year | | | | | | | | | | | | Metric tons per year | | | | | | Gal per |
|---|---|---



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Locomotive Calculations | Location | Offsite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	14	14	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	37.8	0.0	0.0	38.1	1,678
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	21	21	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.9	1.7	0.0	0.0	0.0	0.0	0.0	406.5	0.0	0.0	410.5	18,058
Elmhurst-WilliamsRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	1.0	1.8	0.0	0.0	0.0	0.0	0.0	444.2	0.0	0.0	448.6	19,736
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	14	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	21	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	14	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	21	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	23	10	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0	26.0	1,142
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	44	18	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.8	1.4	0.0	0.0	0.0	0.0	0.0	353.0	0.0	0.0	356.5	15,682
Williams-MtEdenRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	0.8	1.5	0.0	0.0	0.0	0.0	0.0	378.7	0.0	0.0	382.4	16,825
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	23	13	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	36.3	0.0	0.0	36.7	1,614
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	44	26	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	1.1	2.0	0.0	0.0	0.0	0.0	0.0	498.7	0.0	0.0	503.6	22,154
Williams-MtEdenRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	1.2	2.2	0.0	0.0	0.0	0.0	0.0	535.0	0.0	0.0	540.3	23,768
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	23	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	44	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	13	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	28	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	13	13	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	35.1	0.0	0.0	35.4	1,558
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	28	28	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	1.2	2.2	0.0	0.0	0.0	0.0	0.0	542.0	0.0	0.0	547.3	24,078
MtEden-BaumbergRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	1.3	2.4	0.0	0.0	0.0	0.0	0.0	577.0	0.0	0.0	582.7	25,636
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	13	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	28	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	14	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	31	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-AlvaradoRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	14	7	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	18.9	0.0	0.0	19.1	842
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	31	16	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.7	1.2	0.0	0.0	0.0	0.0	0.0	301.0	0.0	0.0	304.0	13,373
Baumberg-AlvaradoRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	0.7	1.3	0.0	0.0	0.0	0.0	0.0	320.0	0.0	0.0	323.1	14,215
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	14	7	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	19.0	836
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	31	15	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.7	1.2	0.0	0.0	0.0	0.0	0.0	299.0	0.0	0.0	302.0	13,284
Baumberg-AlvaradoRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	0.7	1.3	0.0	0.0	0.0	0.0	0.0	317.8	0.0	0.0	321.0	14,121
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	5	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	6	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-LowryRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	5	1	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	169
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	6	2	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	32.8	0.0	0.0	33.2	1,459
Alvarado-LowryRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	36.6	0.0	0.0	37.0	1,628
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	5	4	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	9.8	430
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	6	4	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	83.3	0.0	0.0	84.1	3,701
Alvarado-LowryRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	93.9	4,131
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	8	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	11	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	8	8	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	21.8	959
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	11	11	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.5	0.9	0.0	0.0	0.0	0.0	0.0	212.9	0.0	0.0	215.0	9,459
Lowry-ArdenwoodRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	234.5	0.0	0.0	236.8	10,418
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	8	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	11	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	4	1	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	170
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	14	5	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	95.9	0.0	0.0	96.8	4,260
Ardenwood-JarvisRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	99.7	0.0	0.0	100.7	4,430
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	4	3	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	7.0	310
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	14	9	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	175.1	0.0	0.0	176.8	7,779
Ardenwood-JarvisRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	182.1	0.0	0.0	183.9	8,089
Ardenwood-Jarvis	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	4	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-Jarvis	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	14	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-JarvisRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Jarvis-Thornton	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	7	7	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	18.9	0.0

Earth Moving Calculations Location Onsite

Code	Activity	Days 2027	Days 2028	Days 2029	Grading (acres/day)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	Pounds per day ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	Metric tons per day CO2	CH4	N2O	CO2e	Gal per day Fuel
Elmhurst-Williams																										
Elmhurst-WilliamsSW	Site Work	87	-	-	0.625	57,289	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	54	-	-	-	25,639	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Elmhurst-WilliamsRWProduction	Rail Work (Production)	54	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Elmhurst-WilliamsStr	Structures	54	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Elmhurst-WilliamsRdwy	Roadway Work	22	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Elmhurst-WilliamsUtil	Utilities	87	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEden		-	-	-	-		-																			
Williams-MtEdenSW	Site Work	130	1	-	0.625	75,270	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Williams-MtEdenRWPrep	Rail Work (Prep)	45	64	-	-	42,377	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEdenRWProduction	Rail Work (Production)	45	64	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEdenStr	Structures	143	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEdenRdwy	Roadway Work	44	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Williams-MtEdenUtil	Utilities	130	1	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-Baumberg		-	-	-	-		-																			
MtEden-BaumbergSW	Site Work	-	87	-	0.625	52,021	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
MtEden-BaumbergRWPrep	Rail Work (Prep)	-	66	-	-	22,376	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-BaumbergRWProduction	Rail Work (Production)	-	66	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-BaumbergStr	Structures	23	108	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-BaumbergRdwy	Roadway Work	-	22	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
MtEden-BaumbergUtil	Utilities	-	87	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-Alvarado		-	-	-	-		-																			
Baumberg-AlvaradoSW	Site Work	-	86	23	0.625	56,924	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	-	43	43	-	25,067	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-AlvaradoRWProductior	Rail Work (Production)	-	43	43	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-AlvaradoStr	Structures	-	153	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-AlvaradoRdwy	Roadway Work	-	44	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Baumberg-AlvaradoUtil	Utilities	-	86	23	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-Lowry		-	-	-	-		-																			
Alvarado-LowrySW	Site Work	-	65	23	0.625	32,184	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Alvarado-LowryRWPrep	Rail Work (Prep)	-	21	53	-	7,084	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-LowryRWProduction	Rail Work (Production)	-	21	53	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-LowryStr	Structures	-	86	43	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-LowryRdwy	Roadway Work	-	31	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Alvarado-LowryUtil	Utilities	-	65	23	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-Ardenwood		-	-	-	-		-																			
Lowry-ArdenwoodSW	Site Work	-	87	-	0.625	21,872	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.7	0.8						
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	-	66	-	-	12,520	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-ArdenwoodRWProduction	Rail Work (Production)	-	66	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-ArdenwoodStr	Structures	23	195	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-ArdenwoodRdwy	Roadway Work	-	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2													
Lowry-ArdenwoodUtil	Utilities	-	87	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-Jarvis		-	-	-	-		-																			
Ardenwood-JarvisSW	Site Work	45	21	-	0.625	11,405	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.7	0.8						
Ardenwood-JarvisRWPrep	Rail Work (Prep)	23	42	-	-	4,942	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisRWProduction	Rail Work (Production)	23	42	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisStr	Structures	65	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisSta	Station	-	239	22	-	10,143	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisRdwy	Roadway Work	-	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2													
Ardenwood-JarvisUtil	Utilities	45	21	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-Thornton		-	-	-	-		-																			
Jarvis-ThorntonSW	Site Work	66	-	-	0.625	25,091	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Jarvis-ThorntonRWPrep	Rail Work (Prep)	65	-	-	-	10,873	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-ThorntonRWProduction	Rail Work (Production)	65	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-ThorntonStr	Structures	87	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-ThorntonRdwy	Roadway Work	44	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Jarvis-ThorntonUtil	Utilities	66	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-Newark		-	-	-	-		-																			
Thornton-NewarkSW	Site Work	87	-	-	0.625	26,857	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Thornton-NewarkRWPrep	Rail Work (Prep)	88	-	-	-	18,029	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-NewarkRWProduction	Rail Work (Production)	88	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-NewarkStr	Structures	44	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-NewarkRdwy	Roadway Work	22	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Thornton-NewarkUtil	Utilities	87	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						

Paving Calculations Location Onsite

Code	Days	Paved (acres)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams																
Elmhurst-WilliamsSW	87	0.9	2.6	0.0												
Elmhurst-WilliamsRW																
Elmhurst-WilliamsStr																
Williams-MtEden																
Williams-MtEdenSW	131	3.5	2.6	0.1												
Williams-MtEdenRW																
Williams-MtEdenStr																
MtEden-Baumberg																
MtEden-BaumbergSW	87	1.3	2.6	0.0												
MtEden-BaumbergRW																
MtEden-BaumbergStr																
Baumberg-Alvarado																
Baumberg-AlvaradoSW	109	2.4	2.6	0.1												
Baumberg-AlvaradoRW																
Baumberg-AlvaradoStr																
Alvarado-Lowry																
Alvarado-LowrySW	88	2.8	2.6	0.1												
Alvarado-LowryRW																
Alvarado-LowryStr																
Lowry-Ardenwood																
Lowry-ArdenwoodSW	87	-	2.6	0.0												
Lowry-ArdenwoodRW																
Lowry-ArdenwoodStr																
Ardenwood-Jarvis																
Ardenwood-JarvisSta	261	13.2	2.6	0.1												
Ardenwood-JarvisRW																
Ardenwood-JarvisStr																
Jarvis-Thornton																
Jarvis-ThorntonSW	66	1.8	2.6	0.1												
Jarvis-ThorntonRW																
Jarvis-ThorntonStr																
Thornton-Newark																
Thornton-NewarkSW	87	3.1	2.6	0.1												
Thornton-NewarkRW																
Thornton-NewarkStr																

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor			
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX
Elmhurst-Williams						
Elmhurst-WilliamsSW	87	632	0.014	0.002		
Elmhurst-WilliamsRW						
Elmhurst-WilliamsStr						
Williams-MtEden						
Williams-MtEdenSW	131	253	0.014	0.002		
Williams-MtEdenRW						
Williams-MtEdenStr						
MtEden-Baumberg						
MtEden-BaumbergSW	87	126	0.014	0.002		
MtEden-BaumbergRW						
MtEden-BaumbergStr						
Baumberg-Alvarado						
Baumberg-AlvaradoSW	109	253	0.014	0.002		
Baumberg-AlvaradoRW						
Baumberg-AlvaradoStr						
Alvarado-Lowry						
Alvarado-LowrySW	88	253	0.014	0.002		
Alvarado-LowryRW						
Alvarado-LowryStr						
Lowry-Ardenwood						
Lowry-ArdenwoodSW	87	2,528	0.014	0.002		
Lowry-ArdenwoodRW						
Lowry-ArdenwoodStr						
Ardenwood-Jarvis						
Ardenwood-JarvisSW	66	126	0.014	0.002		
Ardenwood-JarvisRW						
Ardenwood-JarvisStr						
Jarvis-Thornton						
Jarvis-ThorntonSW	66	126	0.014	0.002		
Jarvis-ThorntonRW						
Jarvis-ThorntonStr						
Thornton-Newark						
Thornton-NewarkSW	87	126	0.014	0.002		
Thornton-NewarkRW						
Thornton-NewarkStr						

Pounds per day						Metric tons per day				Gal per day
CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
			0.1	0.0						
			0.0	0.0						
			0.0	0.0						
			0.0	0.0						
			0.0	0.0						
			0.4	0.1						
			0.0	0.0						
			0.0	0.0						

Coast Sub-Division – Mitigated Emissions Calculation Sheet

	2	3	4	5	6		
Description		**Start Date**	**Working Days**	**2024**	**2025**	**2026**	**End Date**
Site Work		1/1/2024	135	135	0	-	7/8/2024
Rail Work (Prep)		7/8/2024	64	64	0	-	10/4/2024
Rail Work (Production)		7/8/2024	2	2	0	-	7/10/2024
Roadway Work		10/8/2024	40	40	0	-	12/3/2024
Structures		12/3/2024	388	21	261	106 -	5/29/2026
Utilities		1/1/2024	450	262	188		9/22/2025

Code	Working Days			2024												2025												2026											
				Tons per year								Metric tons per year				Gal/yr	Tons per year								Metric tons per year				Gal/year	Tons per year								Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Coast Sub				**0**	**2**	**5**	**0**	**0**	**1**	**0**	**0**	**1,304**	**0**	**0**	**1,325**	**58,274**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**254**	**0**	**0**	**256**	**11,620**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60**	**0**	**0**	**60**	**2,757**
Off-Road																																									
coastsub				***0***	***0***	***3***	***0***	***0***	***0***	***0***	***0***	***385***	***0***	***0***	***386***	***17.095***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***181***	***0***	***0***	***181***	***8.020***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***38***	***0***	***0***	***38***	***1.694***
coastsubSW	135	0	0	0	0	1	0	0	0	0	0	88	0	0	88	3.898																									
coastsubRWPrep	64	0	0	0	0	1	0	0	0	0	0	100	0	0	100	4,422																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	32	0	0	32	1.410																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	8	0	0	8	357	0	0	1	0	0	0	0	0	94	0	0	94	4,171	0	0	0	0	0	0	0	0	38	0	0	38	1,694
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	37	0	0	37	1.642																									
coastsubUtil	262	188	0	0	0	1	0	0	0	0	0	121	0	0	121	5.366	0	0	1	0	0	0	0	0	87	0	0	87	3.850													
Employee																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***48***	***0***	***0***	***48***	***2.472***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***48***	***0***	***0***	***48***	***2.477***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***15***	***0***	***0***	***15***	***782***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	22	0	0	22	1.146																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	5	0	0	5	247																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	3	0	0	3	162	0	0	0	0	0	0	0	0	38	0	0	39	1,969	0	0	0	0	0	0	0	0	15	0	0	15	782
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	4	0	0	4	185																									
coastsubutil	262	188	0	0	0	0	0	0	0	0	0	14	0	0	14	708	0	0	0	0	0	0	0	0	10	0	0	10	508													
Off-Site On-Road																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***303***	***0***	***0***	***317***	***13.472***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***25***	***0***	***0***	***26***	***1.122***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***7***	***280***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	278	0	0	291	12.335																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	6	0	0	6	250																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	1	0	0	1	58	0	0	0	0	0	0	0	0	16	0	0	16	703	0	0	0	0	0	0	0	0	6	0	0	7	280
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	5	0	0	5	222																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	13	0	0	14	596	0	0	0	0	0	0	0	0	9	0	0	10	420													
Locomotive																																									
coastsub				***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***568***	***0***	***0***	***574***	***25.234***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	1	2	0	0	0	0	0	568	0	0	574	25,234																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paving																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Demolition																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Offroad Calculations | Location | Onsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMDD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalEEMod)										Pounds per day									Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
															RDG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	RDG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	RDG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	Site Work	2024	Excavator	2	6	45	45	Excavators	300	200	0.4	Diesel	21	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.5	0.0	0.0	0.1	0.5	5.2	0.0	0.0			0.0	0.5	0.0	0.0	0.5	21	0.0	0.0	0.1	0.0	0.0			0.0	21.7	0.0	0.0	21.8	364
CoastSub	Site Work	2024	Grader	1	6	60	60	Graders	300	190	0.7	Diesel	20	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.9	0.0	0.0	0.1	0.5	4.8	0.0	0.0			0.0	0.4	0.0	0.0	0.4	20	0.0	0.0	0.1	0.0	0.0			0.0	26.7	0.0	0.0	26.8	1,187
CoastSub	Site Work	2024	D6 Dozer	1	6	90	90	Rubber Tired Dozers	300	250	0.4	Diesel	14	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.8	0.0	0.0	0.1	0.3	3.4	0.0	0.0			0.0	0.3	0.0	0.0	0.3	14	0.0	0.0	0.2	0.0	0.0			0.0	28.6	0.0	0.0	28.7	1,269
CoastSub	Site Work	2024	Comvactor	1	4	90	90	Other Construction Equipment	175	150	0.4	Diesel	5	120-174	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.1	0.1	1.9	0.0	0.0			0.0	0.1	0.0	0.0	0.1	5	0.0	0.0	0.1	0.0	0.0			0.0	10.8	0.0	0.0	10.8	479
CoastSub	Site Work	2024	Off-Hatwaw Tru	0	0	0	0	Off-Hatwaw Trucks	600	400	0.4	Diesel	0	300-599	0.1	0.3	2.6	0.0	0.0			0.0	527.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0
CoastSub	Site Work	2024	Chipper	0	0	0	0	Other Construction Equipment	50	50	0.4	Diesel	0	50-74	0.1	2.7	3.7	0.0	0.0			0.0	590.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0
CoastSubSW2024	SW	2024												**2024 Site Work**																																			
CoastSub	Rail Work (Prep)	2024	Tamper	1	6	60	60	Other Construction Equipment	300	250	0.4	Diesel	13	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.7	0.0	0.0	0.1	0.3	3.3	0.0	0.0			0.0	0.3	0.0	0.0	0.3	13	0.0	0.0	0.1	0.0	0.0			0.0	18.1	0.0	0.0	18.1	803
CoastSub	Rail Work (Prep)	2024	Reeulator	1	6	60	60	Other Construction Equipment	600	350	0.4	Diesel	19	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.2	0.0	0.0	0.1	0.5	4.6	0.0	0.0			0.0	0.4	0.0	0.0	0.4	19	0.0	0.0	0.1	0.0	0.0			0.0	25.3	0.0	0.0	25.4	1,124
CoastSub	Rail Work (Prep)	2024	Speedswine	1	6	60	60	Other Construction Equipment	175	160	0.4	Diesel	9	120-174	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.0	0.2	3.0	0.0	0.0			0.0	0.2	0.0	0.0	0.2	9	0.0	0.0	0.1	0.0	0.0			0.0	11.5	0.0	0.0	11.5	511
CoastSub	Rail Work (Prep)	2024	In Track Welder	1	4	24	24	Welders	999	300	0.5	Diesel	15	300-599	0.1	0.3	2.6	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.3	3.4	0.0	0.0			0.0	0.3	0.0	0.0	0.3	15	0.0	0.0	0.0	0.0	0.0			0.0	8.2	0.0	0.0	8.2	364
CoastSub	Rail Work (Prep)	2024	Wheel Loader	1	6	60	60	Rubber Tired Loaders	300	250	0.4	Diesel	14	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.1	0.3	3.4	0.0	0.0			0.0	0.3	0.0	0.0	0.3	14	0.0	0.0	0.1	0.0	0.0			0.0	19.0	0.0	0.0	19.0	842
CoastSub	Rail Work (Prep)	2024	Backhoe	2	4	60	60	Tractors/Loaders/Backhoes	100	86	0.5	Diesel	7	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.0	0.2	2.6	0.0	0.0			0.0	0.2	0.0	0.0	0.2	7	0.0	0.0	0.1	0.0	0.0			0.0	10.1	0.0	0.0	10.1	447
CoastSub	Rail Work (Prep)	2024	Mobile crane	1	6	29	29	Cranes	300	280	0.3	Diesel	11	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.6	0.0	0.0	0.1	0.3	2.8	0.0	0.0			0.0	0.3	0.0	0.0	0.3	11	0.0	0.0	0.0	0.0	0.0			0.0	7.5	0.0	0.0	7.5	331
CoastSubRWPrep2024	RWPrep	2024												**2024 Rail Work (Prep)**																																			
CoastSub	Rail Work (Production)	2024	Spike Puller	4	7	6	6	Other Construction Equipment	75	75	0.4	Diesel	18	75-119	0.1	0.3	3.7	0.0	0.0			0.0	519.5	0.0	0.0	0.1	0.5	6.5	0.0	0.0			0.0	0.4	0.0	0.0	0.4	18	0.0	0.0	0.0	0.0	0.0			0.0	2.5	0.0	0.0	2.5	111
CoastSub	Rail Work (Production)	2024	Tie Inserter/Ren	4	7	6	6	Other Construction Equipment	300	200	0.4	Diesel	50	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.7	0.0	0.0	0.2	1.2	12.2	0.0	0.0			0.0	1.1	0.0	0.0	1.1	50	0.0	0.0	0.1	0.0	0.0			0.0	6.8	0.0	0.0	6.8	300
CoastSub	Rail Work (Production)	2024	Tie Crane	4	7	6	6	Other Construction Equipment	175	130	0.4	Diesel	32	120-174	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.2	0.8	11.3	0.0	0.0			0.0	0.7	0.0	0.0	0.7	32	0.0	0.0	0.0	0.0	0.0			0.0	4.4	0.0	0.0	4.4	194
CoastSub	Rail Work (Production)	2024	Plate Jack	4	7	6	6	Other Construction Equipment	25	10	0.4	Diesel	4	2024Other Construction Equiument25	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.5	1.1	0.1	0.1			0.0	0.1	0.0	0.0	0.1	4	0.0	0.0	0.0	0.0	0.0			0.0	0.5	0.0	0.0	0.5	24
CoastSub	Rail Work (Production)	2024	Spiker	4	7	18	18	Other Construction Equipment	100	100	0.4	Diesel	25	75-119	0.1	0.3	3.7	0.0	0.0			0.0	528.5	0.0	0.0	0.1	0.6	8.7	0.0	0.0			0.0	0.6	0.0	0.0	0.6	25	0.0	0.0	0.1	0.0	0.0			0.0	10.1	0.0	0.0	10.2	450
CoastSub	Rail Work (Production)	2024	Anchor Spreade	4	7	18	18	Other Construction Equipment	75	75	0.4	Diesel	18	75-119	0.1	0.3	3.7	0.0	0.0			0.0	519.5	0.0	0.0	0.1	0.5	6.5	0.0	0.0			0.0	0.4	0.0	0.0	0.4	18	0.0	0.0	0.1	0.0	0.0			0.0	7.5	0.0	0.0	7.5	332
CoastSubRWProduction2024	RWProduction	2024												**2024 Rail Work (Production)**																																			
CoastSub	Roadway Work	2024	210 Tractor load	1	7	40	40	Tractors/Loaders/Backhoes	100	93	0.4	Diesel	21	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	1.6	8.7	9.7	0.6	0.5			0.0	0.5	0.0	0.0	0.5	21	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	18.5	0.0	0.0	18.8	821
CoastSub	Roadway Work	2024	Paver	1	4	8	8	Pavers	175	170	0.4	Diesel	21	120-174	0.1	0.3	3.7	0.0	0.0			0.0	528.8	0.0	0.0	1.6	8.7	9.7	0.6	0.5			0.0	0.5	0.0	0.0	0.5	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	3.8	164
CoastSub	Roadway Work	2024	Compactor	1	7	24	24	Other Construction Equipment	175	150	0.4	Diesel	9	120-174	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.0	0.2	3.3	0.0	0.0			0.0	0.2	0.0	0.0	0.2	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	5.1	224
CoastSub	Roadway Work	2024	Roller	1	7	8	8	Rollers	175	142	0.7	Diesel	17	120-174	0.1	0.3	3.7	0.0	0.0			0.0	527.1	0.0	0.0	0.1	0.4	6.0	0.0	0.0			0.0	0.4	0.0	0.0	0.4	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	3.1	138
CoastSub	Roadway Work	2024	Roller	1	7	24	24	Rollers	25	25	0.7	Diesel	5	25-49	0.1	2.8	4.1	0.0	0.0			0.0	848.0	0.0	0.0	0.0	0.8	1.2	0.0	0.0			0.0	0.1	0.0	0.0	0.1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	117
CoastSub	Roadway Work	2024	Cold Planer	1	7	8	8	other construction equipment	600	337	0.4	Diesel	21	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.2	0.0	0.0	0.1	0.5	5.1	0.0	0.0			0.0	0.5	0.0	0.0	0.5	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.8	168
CoastSub	Roadway Work	2024	Jumoine jack Co	2	6	16	16	olate comapctors	25	3	0.4	Diesel	0	2024plate comapctors25	0.5	4.1	3.5	0.2	0.1			0.0	568.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	5
CoastSub	Roadway Work	2024	Vibratory Plate (	1	6	24	24	olate comapctors	25	3.5	0.4	Diesel	0	2024plate comapctors25	0.5	4.1	3.5	0.2	0.1			0.0	568.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	5
CoastSubRdway2024	Rdway	2024												**2024 Roadway Work**																																			
CoastSub	Structures	2024	Generators	2	8	176	10	Generator sets	25	13	0.2	Diesel	1	2024Generator sets25	0.5	4.4	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.1	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	10
CoastSub	Structures	2024	Mobile Cranes	1	8	176	10	Cranes	300	230	0.3	Diesel	13	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.6	0.0	0.0	0.1	0.3	3.1	0.0	0.0			0.0	0.3	0.0	0.0	0.3	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.7	139
CoastSub	Structures	2024	Concrete pumps	1	8	33	2	Pumps	999	80	0.3	Diesel	5	75-119	0.1	0.3	3.7	0.0	0.0			0.0	568.3	0.0	0.0	0.0	0.1	1.6	0.0	0.0			0.0	0.1	0.0	0.0	0.1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	9
CoastSub	Structures	2024	Wheel Loader	1	8	176	10	Tractors/Loaders/Backhoes	300	200	0.5	Diesel	17	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.1	0.0	0.0	0.1	0.4	4.2	0.0	0.0			0.0	0.4	0.0	0.0	0.4	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	3.7	164
CoastSub	Structures	2024	Welder	2	8	10	1	Welders	999	30	0.5	Diesel	6	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.0	1.5	2.2	0.0	0.0			0.0	0.1	0.0	0.0	0.1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	3
CoastSub	Structures	2024	Soil nail anchor	1	8	22	1	Other Construction Equipment	175	110	0.4	Diesel	8	75-119	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.0	0.2	2.7	0.0	0.0			0.0	0.2	0.0	0.0	0.2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	2.2	116
CoastSub	Structures	2024	Generator	2	8	22	1	Generator sets	25	13	0.2	Diesel	1	2024Generator sets25	0.5	4.4	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
CoastSub	Structures	2024	Concrete pumps	1	8	34	1	Pumps	999	400	0.3	Diesel	24	300-599	0.1	0.3	2.6	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.6	5.5	0.0	0.0			0.0	0.5	0.0	0.0	0.5	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	18
CoastSub	Structures	2024	210 Tractor load	1	8	36	2	Tractors/Loaders/Backhoes	100	93	0.5	Diesel	8	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.0	0.2	2.8	0.0	0.0			0.0	0.2	0.0	0.0	0.2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	16
CoastSub	Structures	2024	Welder	2	8	22	1	Welders	999	30	0.5	Diesel	6	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.0	1.5	2.2	0.0	0.0			0.0	0.1	0.0	0.0	0.1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	7
CoastSubStr2024	Str	2024												**2024 Structures**																																			
CoastSub	Structures	2025	Generators	2	8	176	118	Generator sets	25	13	0.2	Diesel	1	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	124
CoastSub	Structures	2025	Mobile Cranes	1	8	176	118	Cranes	300	230	0.3	Diesel	13	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.6	0.0	0.0	0.1	0.3	3.1	0.0	0.0			0.0	0.3	0.0	0.0	0.3	13	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.4	1,481
CoastSub	Structures	2025	Concrete pumps	1	8	33	22	Pumps	999	80	0.3	Diesel	5	75-119	0.1	0.3	3.7	0.0	0.0			0.0	568.3	0.0	0.0	0.0	0.1	1.6	0.0	0.0			0.0	0.1	0.0	0.0	0.1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.4	108
CoastSub	Structures	2025	Wheel Loader	1	8	176	118	Rubber Tired Loaders	300	200	0.4	Diesel	15	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.1	0.4	3.7	0.0	0.0			0.0	0.3	0.0	0.0	0.3	15	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	39.9	0.0	0.0	40.0	1,773
CoastSub	Structures	2025	Welder	2	8	10	7	Welders	999	30	0.5	Diesel	6	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.0	1.5	2.2	0.0	0.0			0.0	0.1	0.0	0.0	0.1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	41
CoastSub	Structures	2025	Soil nail anchor	1	8	22	15	Other Construction Equipment	175	110	0.4	Diesel	8	75-119	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.0	0.2	2.7	0.0	0.0			0.0	0.2	0.0	0.0	0.2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	116
CoastSub	Structures	2025	Generator	2	8	22	15	Generator sets	25	13	0.2	Diesel	1	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.4	16
CoastSub	Structures	2025	Concrete pump	1	8	34	9	Pumps	999	400	0.3	Diesel	24	300-599	0.1	0.3	2.6	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.6	5.5	0.0	0.0			0.0	0.5	0.0	0.0	0.5	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	5.2	228
CoastSub	Structures	2025	210 Tractor load	1	8	36	24	Tractors/Loaders/Backhoes	100	93	0.5	Diesel	8	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.0	0.2	2.8	0.0	0.0			0.0	0.2	0.0	0.0	0.2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	4.4	195
CoastSub	Structures	2025	Welder	2	8	22	15	Welders	999	30	0.5	Diesel	6	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.0	1.5	2.2	0.0	0.0			0.0	0.1	0.0	0.0	0.1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	90
CoastSub5tr2025	Str	2025												**2025 Structures**																																			
CoastSub	Structures	2026	Generators	2	8	176	48	Generator sets	25	13	0.2	Diesel	1	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	51
CoastSub	Structures	2026	Mobile Cranes	1	8	176	48	Cranes	300	230	0.3	Diesel	13	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.6	0.0	0.0	0.1	0.3	3.1	0.0	0.0			0.0	0.3	0.0	0.0	0.3	13	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	13.5	0.0	0.0	13.6	601
CoastSub	Structures	2026	Concrete pumps	1	8	33	9	Pumps	999	80	0.3	Diesel	5	75-119	0.1	0.3	3.7	0.0	0.0			0.0	568.3	0.0	0.0	0.0	0.1	1.6	0.0	0.0			0.0	0.1	0.0	0.0	0.1	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	44
CoastSub	Structures	2026	Wheel Loader	1	8	176	48	Rubber Tired Loaders	300	200	0.4	Diesel	15	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.1	0.4	3.7	0.0	0.0			0.0	0.3	0.0	0.0	0.3	15	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	16.2	0.0	0.0	16.3	720
CoastSub	Structures	2026	Welder	2	8	10	3	Welders	999	30	0.5	Diesel	6	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.0	1.5	2.2	0.0	0.0			0.0	0.1	0.0	0.0	0.1	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	17
CoastSub	Structures	2026	Soil nail anchor	1	8	22	6	Other Construction Equipment	175	110	0.4	Diesel	8	75-119	0.1	0.3	3.7	0.0	0.0			0.0	525.9	0.0	0.0	0.0	0.2	2.7	0.0	0.0			0.0	0.2	0.0	0.0	0.2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	47
CoastSub	Structures	2026	Generator	2	8	22	6	Generator sets	25	13	0.2	Diesel	1	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
CoastSub	Structures	2026	Concrete pump	1	8	34	4	Pumps	999	400	0.3	Diesel	24	300-599	0.1	0.3	2.6	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.6	5.5	0.0	0.0			0.

Emplyoee Onroad Calculations Location Offsite

												1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23															
						Employee/	Trips/					g/mi (EMFAC, AP 42)												Process g/trip (EMFAC)												Pounds per day								Metric tons per day				Gal per day
Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Day	Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	CoastSubSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	22	44	515	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.6	0.0	0.0	1.4	0.4	0.0	0	0.0	0.0	0	8
CoastSub	CoastSubRWPrep2024	2024 Rail Work (Prep)	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	4
CoastSub	CoastSubRWProduction2024	2024 Rail Work (Production)	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	30	60	702	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	12
CoastSub	CoastSubRdwy2024	2024 Roadway Work	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	12	24	281	Gas	5	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.9	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0	5
CoastSub	CoastSubStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	20	40	468	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	8
CoastSub	CoastSubStr2025	2025 Structures	2025	SFBAAB	2025SFBAABLDA-LDT	Emplovee Auto	20	40	468	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.4	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	8
CoastSub	CoastSubStr2026	2026 Structures	2026	SFBAAB	2026SFBAABLDA-LDT	Emplovee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.1	0.1	1.3	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	7
CoastSub	CoastSubUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	7	14	164	Gas	3	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	3
CoastSub	CoastSubUtil2025	2025 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	7	14	164	Gas	3	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	3

Offsite Onroad Calculations		Location	Offsite

Project	Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT Mi/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle	g/mi (OMFAC, AP 42)										Pounds a/day (OMFAC)										Pounds per day										Metric tons per day					tCo2 eq/ day	Tons per year									Metric tons per year				tCo2 eq/ year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	Site Work	2024	SFBAAB	2024SFBAABHDT-MHDT	Water Truck	1	17	135	135	Diesel	1	MHDT 4WDT	0.0	1.2	0.1	0.0	0.0	1.3	0.3	0.0	1148	0.0	0.2	0.0	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	189.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	117
CoastSub	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	6	17	135	135	Gas	2	LDT2	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	339	0.0	0.0	0.8	0.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	86.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	5	208
CoastSub	Site Work	2024	SFBAAB	2024SFBAABLHDT	Sweeper	1	17	135	135	Diesel	1	HHDT	0.0	1.9	0.1	0.0	0.0	1.4	0.3	0.0	1635	0.0	0.3	0.3	7.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	822.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	6	170
CoastSub	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	1	HHDT	0.0	1.9	0.1	0.0	0.0	1.4	0.3	0.0	1635	0.0	0.3	0.3	7.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	822.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	14
CoastSub	Site Work	2024	SFBAAB	2024SFBAABLHDT	Fuel Truck	1	17	10	10	Diesel	1	HHDT	0.0	1.9	0.1	0.0	0.0	1.4	0.3	0.0	1635	0.0	0.3	0.3	7.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	822.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	14
CoastSub	Site Work	2024	SFBAAB	2024SFBAABLHDT	Water Truck	6	17	135	135	Diesel	6	HHDT	0.0	1.9	0.1	0.0	0.0	1.4	0.3	0.0	1635	0.0	0.3	0.3	7.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	822.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6	0.0	0.0	6	170
CoastSub	Site Work	2024	SFBAAB	2024SFBAABLHDT	Dump Truck	39.761	68	135	135	Diesel	86	HHDT	0.0	1.9	0.1	0.0	0.0	1.4	0.3	0.0	1635	0.0	0.3	0.3	7.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	822.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84	0.0	0.0	84	11,935
CoastSub	Site Work	2024	SFBAAB	2024SFBAABLHDT	Boom Truck	0.0076	60	135	135	Diesel	0	HHDT	0.0	1.9	0.1	0.0	0.0	1.4	0.3	0.0	1635	0.0	0.3	0.3	7.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	822.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	1
CoastSubSW2024	SW	2024												

Locomotive Calculations | Location | Offsite and OnSite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	18	18	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	64.7	0.0	0.0	65.4	2,876
CoastSub	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	6	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	116.1	0.0	0.0	117.3	5,160
CoastSub	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	4	10	10	10	4400	0.4	Diesel	1720	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	14.6	172.8	316.2	2.6	2.5			0.9	38.7	0.0	0.0	39.1	1,720	0.1	0.9	1.6	0.0	0.0	0.0	0.0	0.0	387.1	0.0	0.0	390.9	17,198
CoastSubRWPrep2024	RWPrep2024																						23.2	275.2	503.6	4.1	4.0	0.0	0.0	1.4	61.7	0.0	0.0	62.3	2,740	0.1	1.3	2.3	0.0	0.0	0.0	0.0	0.0	568.0	0.0	0.0	573.6	25,234

Earth Moving Calculations Location Onsite

Code	Days	Grading (acres)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor						Pounds per day								Metric tons per day				Gal per day
					PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub																							
CoastSubSW	135	0.8	126,442	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.9	1.0						
CoastSubRWPrep	64	0.0	102,267	0	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.1	0.0						
CoastSubRWProduction	2	0.0	0	0	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
CoastSubStr	21	0.0	0	0	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
CoastSubRdwy	40	0.0	0	0	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
CoastSubUtil	262	0.0	0	0	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						

Paving Calculations Location Onsite

Code	Days	Paved (sf)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub																
CoastSubSW	135	230,868	2.6	0.1												
CoastSubRW			2.6													
CoastSubStr			2.6													

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub																	
CoastSubSW	135	329	0.014	0.002						0.0	0.0						
CoastSubRW			0.014	0.002													
CoastSubStr			0.014	0.002													

Niles-Oakland At-Grade – Mitigated Emissions Calculation Sheet

Code	Description	Start Date	Working Days	2024	2025	2026		End Date
HaywardSidingBOA								
HaywardSidingBOASW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOAUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBOARWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBOARWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOAStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBOARdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBO							-	
HaywardSidingBOSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBORWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBORWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBORdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1							-	
HaywardSidingC1SW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1Util	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingC1RWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingC1RWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingC1Str	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingC1Rdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingD							-	
HaywardSidingDSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingDUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingDRWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingDRWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingDStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingDRdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
IndustrialParkwayBOA							-	
IndustrialParkwayBOASW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOAUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBOARWPrep	Rail Work (Prep)	9/9/2025	80	0	80		-	12/30/2025
IndustrialParkwayBOARWProduction	Rail Work (Production)	9/9/2025	2	0	2		-	9/11/2025
IndustrialParkwayBOAStr	Structures	3/25/2025	120	0	120		-	9/9/2025
IndustrialParkwayBOARdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBO							-	
IndustrialParkwayBOSW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBORWPrep	Rail Work (Prep)	9/9/2025	80	0	80		-	12/30/2025
IndustrialParkwayBORWProduction	Rail Work (Production)	9/9/2025	2	0	2		-	9/11/2025
IndustrialParkwayBOStr	Structures	3/25/2025	120	0	120		-	9/9/2025
IndustrialParkwayBORdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1							-	
IndustrialParkwayC1SW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1Util	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayC1RWPrep	Rail Work (Prep)	9/9/2025	80		80		-	12/30/2025
IndustrialParkwayC1RWProduction	Rail Work (Production)	9/9/2025	2		2		-	9/11/2025
IndustrialParkwayC1Str	Structures	3/25/2025	20		20		-	4/22/2025
IndustrialParkwayC1Rdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
							-	
							-	
							-	
							-	
							-	
DecotoSidingBOA							-	
DecotoSidingBOASW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOAUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBOARWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBOARWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOAStr	Structures	N/A	0	0	0		-	
DecotoSidingBOARdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBO							-	
DecotoSidingBOSW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBORWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBORWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOStr	Structures	N/A	0	0	0		-	
DecotoSidingBORdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1							-	
DecotoSidingC1SW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1Util	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingC1RWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingC1RWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingC1Str	Structures	N/A	0	0	0		-	
DecotoSidingC1Rdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingD							-	
DecotoSidingDSW	Site Work	1/2/2024	200	200	0		-	10/8/2024
DecotoSidingDUtil	Utilities	1/2/2024	200	200	0			10/8/2024
DecotoSidingDRWPrep	Rail Work (Prep)	1/20/2026	80	0	0	80	-	5/12/2026
DecotoSidingDRWProduction	Rail Work (Production)	1/20/2026	10	0	0	10	-	2/3/2026
DecotoSidingDStr	Structures	10/8/2024	300	61	239		-	12/2/2025
DecotoSidingDRdwy	Roadway Work	12/2/2025	50	0	22	28	-	2/10/2026
AlamedaCkFreBOA							-	
AlamedaCkFreBOASW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOAUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBOARWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025
AlamedaCkFreBOARWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOAStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBOARdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBO							-	
AlamedaCkFreBOSW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBORWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025

AlamedaCkFreBORWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBORdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreC1							-	
AlamedaCkFreC1SW	Site Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreC1Util	Utilities	10/29/2024	140	46	94			5/13/2025
AlamedaCkFreC1RWPrep	Rail Work (Prep)	7/6/2026	80	0	0	80	-	10/26/2026
AlamedaCkFreC1RWProduction	Rail Work (Production)	7/6/2026	6	0	0	6	-	7/14/2026
AlamedaCkFreC1Str	Structures	2/18/2025	360	0	227	133	-	7/7/2026
AlamedaCkFreC1Rdwy	Roadway Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreD							-	
AlamedaCkFreDSW	Site Work	3/19/2025	80	0	80		-	7/9/2025
AlamedaCkFreDUtil	Utilities	3/19/2025	80	0	80			7/9/2025
AlamedaCkFreDRWPrep	Rail Work (Prep)	7/9/2025	80	0	80		-	10/29/2025
AlamedaCkFreDRWProduction	Rail Work (Production)	7/9/2025	6	0	6		-	7/17/2025
AlamedaCkFreDStr	Structures	1/24/2024	300	245	55		-	3/19/2025
AlamedaCkFreDRdwy	Roadway Work	10/18/2025	15	0	15		-	11/7/2025

Code	Working Days			2024											2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.0.A				**0**	**2**	**4**	**0**	**0**	**2**	**1**	**0**	**1,484**	**0**	**0**	**1,523**	**66,912**	**0**	**2**	**5**	**0**	**0**	**1**	**0**	**0**	**1,277**	**0**	**0**	**1,297**	**57,323**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Off-Road				**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**323**	**0**	**0**	**325**	**14,368**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**266**	**0**	**0**	**267**	**11,806**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,026***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	6	244																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***64***	***0***	***0***	***64***	***2,844***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***133***	***0***	***0***	***133***	***5,908***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	59	0	0	60	2,643	0	0	0	0	0	0	0	0	24	0	0	24	1,080											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	4	0	0	4	172	0	0	0	0	0	0	0	0	2	0	0	2	70											
IndustrialParkwayBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	56	0	0	56	2,500											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	15	0	0	15	651											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	36	0	0	36	1,596											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	29	0	0	0	0	0	0	0	0	0	0	0	0	12											
DecotoSidingBOA				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***6,844***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***554***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	3,176																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	144																								
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	1,778	0	0	0	0	0	0	0	0	12	0	0	13	554											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,335																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	412																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***1,655***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***120***	***0***	***0***	***121***	***5,344***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	1,443	0	0	0	0	0	0	0	0	38	0	0	38	1,695											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	69	0	0	0	0	0	0	0	0	2	0	0	2	81											
AlamedaCkFreBOARWPrep	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	1,334											
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	520											
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	1,547											
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	143	0	0	0	0	0	0	0	0	4	0	0	4	167											
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**136**	**6,941**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**81**	**0**	**0**	**82**	**4,174**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***2,905***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***42***	***0***	***0***	***42***	***2,163***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	1,644	0	0	0	0	0	0	0	0	13	0	0	13	656											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	439	0	0	0	0	0	0	0	0	3	0	0	3	175											
IndustrialParkwayBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	302											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	23											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	13	0	0	13	679											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	822	0	0	0	0	0	0	0	0	6	0	0	6	328											
DecotoSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***72***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	926																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	371																								
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	235	0	0	0	0	0	0	0	0	1	0	0	1	72											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	232																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	463																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***886***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***38***	***0***	***0***	***38***	***1,939***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	176	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	453											
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	68											
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	604											
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407											
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**719**	**0**	**0**	**752**	**31,937**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**240**	**0**	**0**	**251**	**10,677**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***241***	***0***	***0***	***252***	***10,719***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***128***	***5,435***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	240	0	0	251	10.651	0	0	0	0	0	0	0	0	96	0	0	101	4.283											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	28	0	0	0	0	0	0	0	0	0	0	0	0	11											
IndustrialParkwayBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	7	0	0	8	331											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	4											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	18	0	0	19	793											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	40	0	0	0	0	0	0	0	0	0	0	0	0	13											
DecotoSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***11,451***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***49***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	11,168																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	38																								
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	160	0	0	0	0	0	0	0	0	1	0	0	1	49											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	41																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	44																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***93***	***0***	***0***	***97***	***4,128***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***117***	***0***	***0***	***122***	***5,193***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	92	0	0	96	4,095	0	0	0	0	0	0	0	0	107	0	0	112	4,733											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	15											
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	156											
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	12											
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	253											
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	23											
Locomotive				**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**13,665**	**0**	**2**	**3**	**0**	**0**	**0**	**0**	**0**	**690**	**0**	**0**	**697**	**30,666**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***511***	***0***	***0***	***516***	***22,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOARWPreo	0	80	0														0	1	2	0	0	0	0	0	511	0	0	516	22,697											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidingBOA				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***11,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***3,571***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOARWPrep	61	19	0	0	1	1	0	0	0	0	0	258	0	0	261	11,466	0	0	0	0	0	0	0	0	80	0	0	81	3,571											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***4,398***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOARWPrep	0	80	0														0	0	0	0	0	0	0	0	99	0	0	100	4,398											
AlamedaCkFreBO

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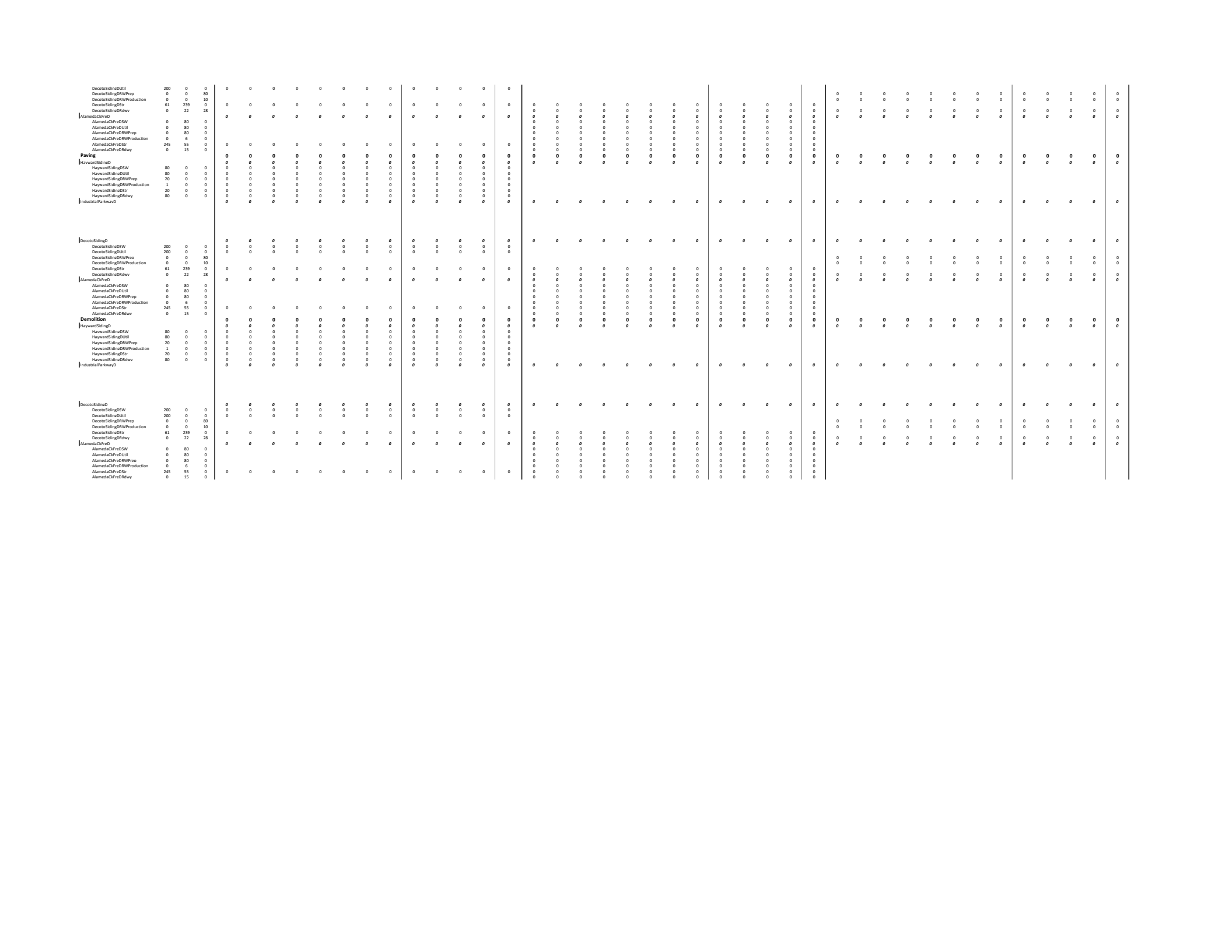
Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.O.				**0**	**2**	**4**	**0**	**0**	**2**	**1**	**0**	**1,485**	**0**	**0**	**1,524**	**66,948**	**0**	**2**	**5**	**0**	**0**	**1**	**0**	**0**	**1,286**	**0**	**0**	**1,306**	**57,735**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Off-Road				**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**324**	**0**	**0**	**325**	**14,410**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**267**	**0**	**0**	**268**	**11,875**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																									
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																									
HaywardSidineBOStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	227																									
HaywardSidineBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***64***	***0***	***0***	***64***	***2,844***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***133***	***0***	***0***	***133***	***5,908***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	59	0	0	60	2,643	0	0	0	0	0	0	0	0	24	0	0	24	1,080												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	4	0	0	4	172	0	0	0	0	0	0	0	0	2	0	0	2	70												
IndustrialParkwayBORWPreo	0	80	0														0	0	0	0	0	0	0	0	56	0	0	56	2,500												
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	15	0	0	15	651												
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	36	0	0	36	1,596												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	29	0	0	0	0	0	0	0	0	0	0	0	0	12												
DecotoSidingBO				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***6,844***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***554***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	3,176																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	144																									
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	1,778	0	0	0	0	0	0	0	0	12	0	0	13	554												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,335																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	412																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***39***	***0***	***0***	***39***	***1,714***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***122***	***5,413***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	1,443	0	0	0	0	0	0	0	0	38	0	0	38	1,695												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	102	0	0	0	0	0	0	0	0	3	0	0	3	119												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	1,334												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	520												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	1,547												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	4	0	0	4	169	0	0	0	0	0	0	0	0	4	0	0	4	198												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**135**	**6,907**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**84**	**0**	**0**	**85**	**4,337**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																									
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																									
HaywardSidineBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																									
HaywardSidineBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***2,905***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***42***	***0***	***0***	***42***	***2,163***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	1,644	0	0	0	0	0	0	0	0	13	0	0	13	656												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	439	0	0	0	0	0	0	0	0	3	0	0	3	175												
IndustrialParkwayBORWPreo	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	302												
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	23												
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	13	0	0	13	679												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	822	0	0	0	0	0	0	0	0	6	0	0	6	328												
DecotoSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***72***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	926																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	371																									
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	235	0	0	0	0	0	0	0	0	1	0	0	1	72												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	232																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	463																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***16***	***0***	***0***	***17***	***852***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***2,102***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	142	0	0	0	0	0	0	0	0	3	0	0	3	163												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	453												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	68												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	604												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**720**	**0**	**0**	**753**	**31,965**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**244**	**0**	**0**	**256**	**10,857**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																									
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***241***	***0***	***0***	***253***	***10,722***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***128***	***5,439***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	240	0	0	251	10.651	0	0	0	0	0	0	0	0	96	0	0	101	4.283												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	28	0	0	0	0	0	0	0	0	0	0	0	0	11												
IndustrialParkwayBORWPreo	0	80	0														0	0	0	0	0	0	0	0	7	0	0	8	331												
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	4												
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	18	0	0	19	793												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	43	0	0	0	0	0	0	0	0	0	0	0	0	17												
DecotoSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***255***	***0***	***0***	***267***	***11,324***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***49***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	249	0	0	260	11,041																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	38																									
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	160	0	0	0	0	0	0	0	0	1	0	0	1	49												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	41																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	44																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***96***	***0***	***0***	***101***	***4,281***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***126***	***5,369***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	95	0	0	100	4,240	0	0	0	0	0	0	0	0	110	0	0	115	4,900												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	24												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	156												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	12												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	253												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	23												
Locomotive				**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**13,665**	**0**	**2**	**3**	**0**	**0**	**0**	**0**	**0**	**690**	**0**	**0**	**697**	**30,666**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidineBOStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***511***	***0***	***0***	***516***	***22,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBORWPreo	0	80	0														0	1	2	0	0	0	0	0	511	0	0	516	22,697												
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingBO				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***11,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***3,571***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidineBORWPreo	61	19	0	0	1	1	0	0	0	0	0	258	0	0	261	11,466	0	0	0	0	0	0	0	0	80	0	0	81	3,571												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***4,398***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	99	0	0	100	4,398												
AlamedaCk

Code	Working Days			2024												2025												2026											
				Tons per year								Metric tons per year				Gal/yr	Tons per year								Metric tons per year				Gal/year	Tons per year								Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
C.1.				**0**	**2**	**4**	**0**	**0**	**2**	**1**	**0**	**1,508**	**0**	**0**	**1,548**	**68,035**	**0**	**2**	**4**	**0**	**0**	**1**	**0**	**0**	**1,304**	**0**	**0**	**1,329**	**58,829**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**466**	**0**	**0**	**470**	**21,016**
Off-Road				**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**326**	**0**	**0**	**327**	**14,487**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**234**	**0**	**0**	**235**	**10,405**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**195**	**0**	**0**	**196**	**8,658**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	227																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***63***	***0***	***0***	***64***	***2,815***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***133***	***0***	***0***	***133***	***5,908***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayc1SW	142	58	0	0	0	0	0	0	0	0	0	59	0	0	60	2,643	0	0	0	0	0	0	0	0	24	0	0	24	1,080												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	4	0	0	4	172	0	0	0	0	0	0	0	0	2	0	0	2	70												
IndustrialParkwayc1RWPreo	0	80	0														0	0	0	0	0	0	0	0	56	0	0	56	2,500												
IndustrialParkwayc1RWProduction	0	2	0														0	0	0	0	0	0	0	0	15	0	0	15	651												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	36	0	0	36	1,596												
IndustrialParkwayc1Rdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12												
DecotoSidingC1				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***6,844***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***554***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingC1SW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	3,176																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	144																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	1,778	0	0	0	0	0	0	0	0	12	0	0	13	554												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,335																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	412																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***1,818***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***89***	***0***	***0***	***89***	***3,943***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***195***	***0***	***0***	***196***	***8,658***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	36	0	0	37	1,617	0	0	0	0	0	0	0	0	74	0	0	75	3,305												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	96	0	0	0	0	0	0	0	0	4	0	0	4	196												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	71	0	0	71	3,136
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	30	0	0	30	1,322
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	5	0	0	5	225	0	0	1	0	0	0	0	0	95	0	0	95	4,200
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	106	0	0	0	0	0	0	0	0	5	0	0	5	216												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**143**	**0**	**0**	**144**	**7,371**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**121**	**0**	**0**	**122**	**6,264**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**43**	**0**	**0**	**44**	**2,227**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***65***	***0***	***0***	***65***	***3,334***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***28***	***0***	***0***	***28***	***1,422***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayc1SW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	1,644	0	0	0	0	0	0	0	0	13	0	0	13	656												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	17	0	0	17	867	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayc1RWPreo	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	302												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	23												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	2	0	0	2	113												
IndustrialParkwayc1Rdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	822	0	0	0	0	0	0	0	0	6	0	0	6	328												
DecotoSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***72***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	926																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	371																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	235	0	0	0	0	0	0	0	0	1	0	0	1	72												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	232																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	463																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***888***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***92***	***0***	***0***	***93***	***4,770***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	14	0	0	14	709												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	3	0	0	3	178	0	0	0	0	0	0	0	0	7	0	0	7	355												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	9	0	0	9	443
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	1	0	0	1	66
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	58	0	0	59	2,997	0	0	0	0	0	0	0	0	33	0	0	34	1,718
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	14	0	0	14	709												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**732**	**0**	**0**	**766**	**32,512**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**358**	**0**	**0**	**374**	**15,892**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**0**	**0**	**20**	**854**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***241***	***0***	***0***	***253***	***10,722***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***128***	***5,439***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayc1SW	142	58	0	0	0	0	0	0	0	0	0	240	0	0	251	10.651	0	0	0	0	0	0	0	0	96	0	0	101	4.283												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	28	0	0	0	0	0	0	0	0	0	0	0	0	11												
IndustrialParkwayc1RWPreo	0	80	0														0	0	0	0	0	0	0	0	7	0	0	8	331												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	4												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	18	0	0	19	793												
IndustrialParkwayc1Rdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	43	0	0	0	0	0	0	0	0	0	0	0	0	17												
DecotoSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***11,451***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***49***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	11,168																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	38																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	160	0	0	0	0	0	0	0	0	1	0	0	1	49												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	41																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	44																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***106***	***0***	***0***	***111***	***4,700***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***234***	***0***	***0***	***245***	***10,404***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***19***	***0***	***0***	***20***	***854***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	105	0	0	110	4,667	0	0	0	0	0	0	0	0	211	0	0	221	9,390												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	1	0	0	1	37												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	7	297
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	0	0	0	0	12
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	21	0	0	22	948	0	0	0	0	0	0	0	0	12	0	0	13	545
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	1	0	0	1	29												
Locomotive				**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**13,665**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**591**	**0**	**0**	**597**	**26,268**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**209**	**0**	**0**	**211**	**9,276**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***511***	***0***	***0***	***516***	***22,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayc1SW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayc1RWPreo	0	80	0														0	1	2	0	0	0	0	0	511	0	0	516	22,697												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayc1Rdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingC1				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***11,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***3,571***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1RWPreo	61	19	0	0	1	1	0	0	0	0	0	258	0	0	261	11,466	0	0	0	0	0	0	0	0	80	0	0	81	3,571												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***209***	***0***	***0***	***211***	***9,276***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

| | | |

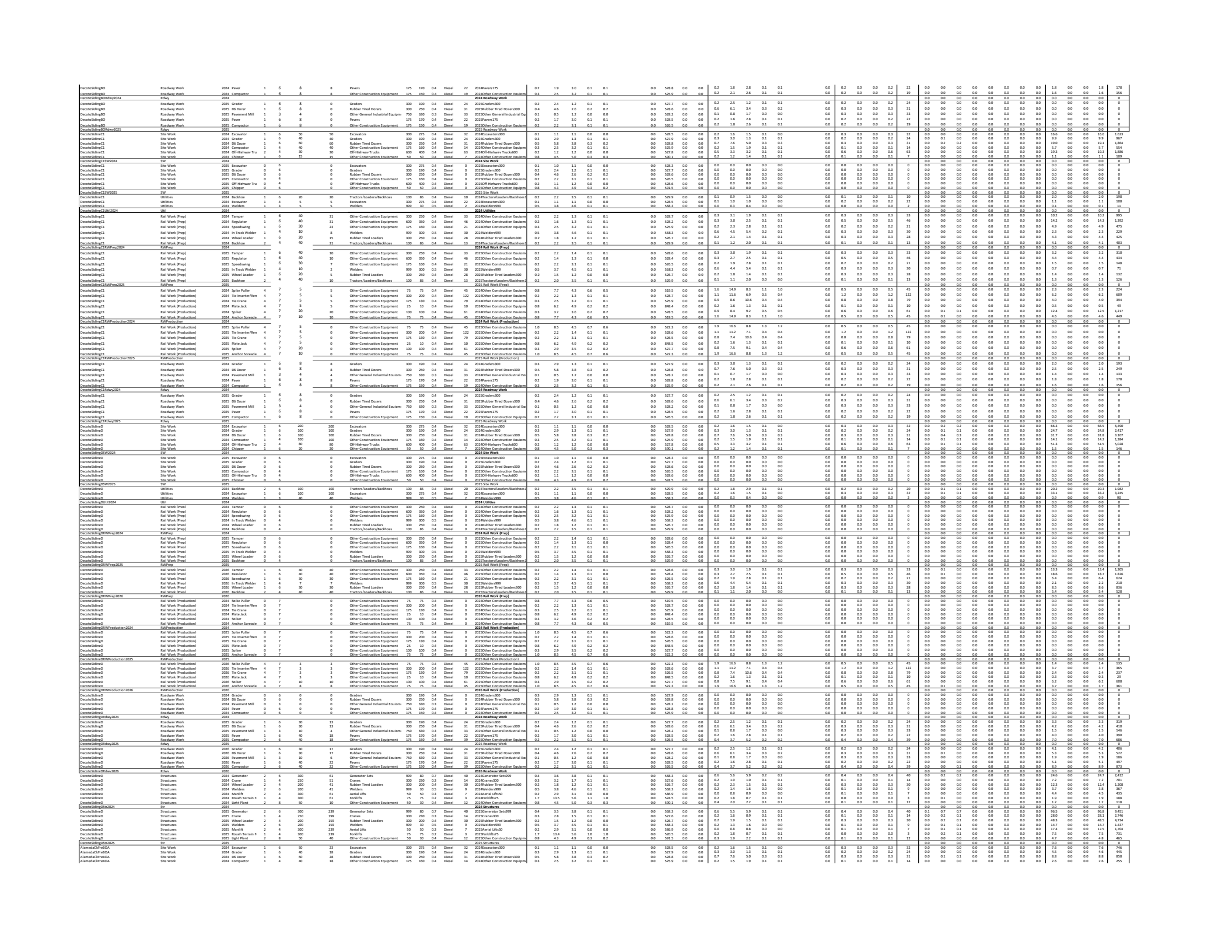
Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
D				**0**	**2**	**5**	**0**	**0**	**2**	**1**	**0**	**2,043**	**0**	**0**	**2,103**	**91,239**	**0**	**1**	**4**	**0**	**0**	**1**	**0**	**0**	**804**	**0**	**0**	**816**	**36,174**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**552**	**0**	**0**	**557**	**24,613**
Off-Road				**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**695**	**0**	**0**	**697**	**30,863**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**436**	**0**	**0**	**437**	**19,368**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**97**	**0**	**0**	**98**	**4,331**
HawwardSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HawwardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																									
HawwardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																									
HawwardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																									
HawwardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																									
HawwardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	227																									
HawwardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
				0	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingD				***0***	***0***	***2***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***300***	***13,299***	***0***	***0***	***2***	***0***	***0***	***0***	***0***	***0***	***237***	***0***	***0***	***238***	***10,532***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***97***	***0***	***0***	***98***	***4,331***
DecotoSidinaDSW	200	0	0	0	0	1	0	0	0	0	0	190	0	0	190	8,425																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	54	0	0	54	2,412																									
DecotoSidingDRWPrep	0	0	80																										0	0	0	0	0	0	0	0	54	0	0	55	2,417
DecotoSidingDRWProduction	0	0	10																										0	0	0	0	0	0	0	0	18	0	0	18	787
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	55	0	0	56	2,463	0	0	1	0	0	0	0	0	217	0	0	218	9,647											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	20	0	0	20	885	0	0	0	0	0	0	0	0	25	0	0	25	1,127
AlamedaCkFreD				***0***	***0***	***2***	***0***	***0***	***0***	***0***	***0***	***328***	***0***	***0***	***329***	***14,555***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***199***	***0***	***0***	***200***	***8,836***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	71	0	0	72	3,168											
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	2	0	0	2	69											
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	44	0	0	44	1,951											
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	7	0	0	7	302											
AlamedaCkFreDStr	245	55	0	0	0	2	0	0	0	0	0	328	0	0	329	14,555	0	0	0	0	0	0	0	0	74	0	0	74	3,267											
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	2	0	0	2	78											
Employee				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**0**	**0**	**68**	**3,478**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**0**	**0**	**63**	**3,223**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**11**	**0**	**0**	**11**	**561**
HawwardSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HawwardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																									
HawwardSidinaDUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																									
HawwardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																									
HawwardSidinaDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																									
HawwardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																									
HawwardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***49***	***0***	***0***	***50***	***2,555***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***38***	***1,928***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***11***	***0***	***0***	***11***	***561***
DecotoSidinaDSW	200	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,544																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	10	0	0	11	540																									
DecotoSidingDRWPrep	0	0	80																										0	0	0	0	0	0	0	0	6	0	0	6	295
DecotoSidingDRWProduction	0	0	10																										0	0	0	0	0	0	0	0	2	0	0	2	111
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	9	0	0	9	471	0	0	0	0	0	0	0	0	35	0	0	35	1,803											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	2	0	0	2	124	0	0	0	0	0	0	0	0	3	0	0	3	155
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***25***	***0***	***0***	***25***	***1,296***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	302											
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	3	0	0	3	151											
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	453											
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	23											
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	311											
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	1	0	0	1	57											
Off-Site On-Road				**0**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**1231**	**0**	**0**	**1288**	**54,699**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**185**	**0**	**0**	**193**	**8,226**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**0**	**0**	**14**	**605**
HawwardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HawwardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																									
HawwardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																									
HawwardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																									
HawwardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																									
HawwardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																									
HawwardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaD				***0***	***2***	***0***	***0***	***0***	***1***	***0***	***0***	***1,083***	***0***	***0***	***1,133***	***48,092***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***34***	***0***	***0***	***36***	***1,520***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***605***
DecotoSidinaDSW	200	0	0	0	2	0	0	0	1	0	0	1,071	0	0	1,120	47,559																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	5	0	0	5	203																									
DecotoSidingDRWPrep	0	0	80																										0	0	0	0	0	0	0	0	6	0	0	6	272
DecotoSidingDRWProduction	0	0	10																										0	0	0	0	0	0	0	0	0	0	0	0	20
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	7	0	0	8	330	0	0	0	0	0	0	0	0	29	0	0	30	1,269											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	6	0	0	6	251	0	0	0	0	0	0	0	0	7	0	0	7	314
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***22***	***0***	***0***	***23***	***969***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***151***	***0***	***0***	***158***	***6,706***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	140	0	0	147	6,232											
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	7											
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	5	0	0	5	221											
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	12											
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	22	0	0	23	969	0	0	0	0	0	0	0	0	5	0	0	5	214											
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	20											
Locomotive				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**50**	**0**	**0**	**50**	**2,199**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**121**	**0**	**0**	**122**	**5,357**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**430**	**0**	**0**	**435**	**19,116**
HawwardSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HawwardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																									
HawwardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***430***	***0***	***0***	***435***	***19,116***
DecotoSidinaDSW	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingDRWPrep	0	0	80																										0	1	2	0	0	0	0	0	430	0	0	435	19,116
DecotoSidingDRWProduction	0	0	10																										0	0	0	0	0	0	0	0	0	0	0	0	0
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***122***	***5,357***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	121	0	0	122	5,357											
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
Grading				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HawwardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HawwardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidinaDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HawwardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaDSW	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									

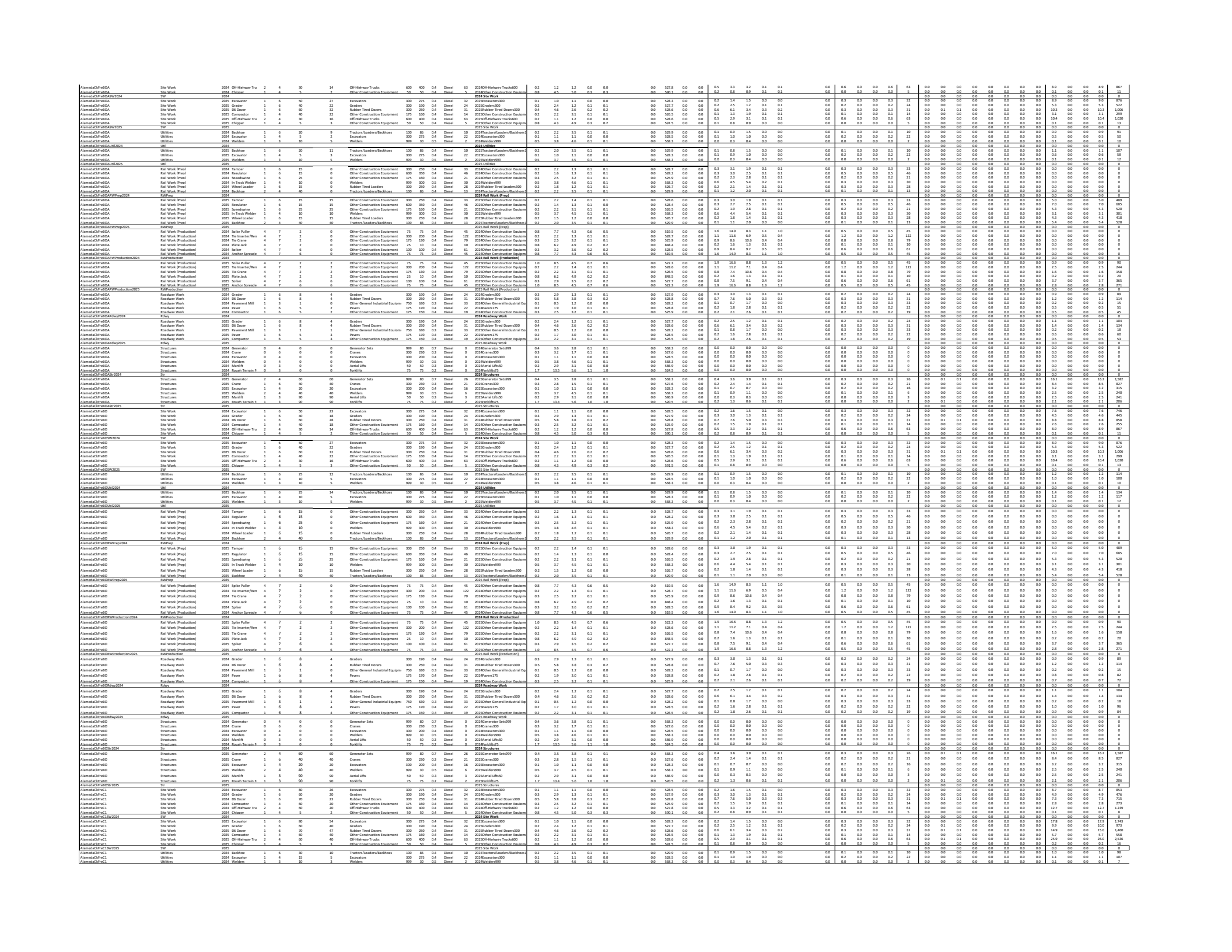


Offroad Calculations | Location | Onsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalREMod)								Pounds per day							Metric tons per day							Gal per day	Tons per year							Metric tons per year				Gal per Year
															ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e		ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	Site Work		2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.3	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0			8.3	0.0	0.0	8.3	811
HaywardSidingBOA	Site Work		2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.3	0.0	0.0	0.3	24	0.0	0.0	0.0	0.0	0.0			4.9	0.0	0.0	5.0	483
HaywardSidingBOA	Site Work		2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0			9.5	0.0	0.0	9.6	932
HaywardSidingBOA	Site Work		2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0			4.2	0.0	0.0	4.3	415
HaywardSidingBOA	Site Work		2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.0	0.0	0.0	0.0			12.8	0.0	0.0	12.9	1,257
HaywardSidingBOA	Site Work		2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.1	0.6	0.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0			0.4	0.0	0.0	0.4	38
HaywardSidingBOASW2024	SW		2024																																													
HaywardSidingBOA	Utilities		2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			1.0	0.0	0.0	1.0	99
HaywardSidingBOA	Utilities		2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	5
HaywardSidingBOAOAI2024	Util		2024																																												
HaywardSidingBOA	Rail Work (Prep)		2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.0	0.0	0.0	0.0			3.3	0.0	0.0	3.3	326
HaywardSidingBOA	Rail Work (Prep)		2024	Regulator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.0	2.5	0.1	0.1			0.0	0.5	0.0	0.0	0.5	46	0.0	0.0	0.0	0.0	0.0			4.7	0.0	0.0	4.7	456
HaywardSidingBOA	Rail Work (Prep)		2024	Speedswing	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	208
HaywardSidingBOA	Rail Work (Prep)		2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.3	0.0	0.0	0.3	30	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	120
HaywardSidingBOA	Rail Work (Prep)		2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.3	2.6	1.4	0.1	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.0	0.0	0.0	0.0			2.8	0.0	0.0	2.9	279
HaywardSidingBOA	Rail Work (Prep)		2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingBOARWPrep2024	RWPrep		2024																																												
HaywardSidingBO	Rail Work (Production)		2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	0.8	7.7	4.3	0.6	0.5			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	45
HaywardSidingBO	Rail Work (Production)		2024	Tie Inserter/Ren	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	1.2	0.0	0.0	1.2	122	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	122
HaywardSidingBO	Rail Work (Production)		2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	0.8	0.0	0.0	0.8	79	0.0	0.0	0.0	0.0	0.0			0.8	0.0	0.0	0.8	79
HaywardSidingBO	Rail Work (Production)		2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			0.1	0.0	0.0	0.1	10
HaywardSidingBO	Rail Work (Production)		2024	Spiker	4	7	3	3	Other Construction Equipment	100	100	0.4	Diesel	61	2024Other Construction Equipme	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.9	8.4	9.2	0.5	0.5			0.0	0.6	0.0	0.0	0.6	61	0.0	0.0	0.0	0.0	0.0			1.9	0.0	0.0	1.9	183
HaywardSidingBO	Rail Work (Production)		2024	Anchor Spreade	4	7	3	3	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			1.4	0.0	0.0	1.4	135
HaywardSidingBOARWProduction2024	RWProduction		2024																																												
HaywardSidingBO	Structures		2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingBOA	Structures		2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	207
HaywardSidingBOA	Structures		2024	Wheel Loader	1	6	5	5	Rubber Tired Loaders	300	250	0.4	Diesel	22	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	1.7	1.1	0.1	0.1			0.0	0.2	0.0	0.0	0.2	22	0.0	0.0	0.0	0.0	0.0			1.1	0.0	0.0	1.1	111
HaywardSidingBOA	Structures		2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.5	0.5	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.2	0.0	0.0	0.2	15
HaywardSidingBOA	Structures		2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.5	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.3	0.0	0.0	0.3	27
HaywardSidingBOA	Structures		2024	Rough Terrain F	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.3	0.6	0.1	0.1			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	46
HaywardSidingBOASir2024	Sir		2024																																											
HaywardSidingBO	Site Work		2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0			8.3	0.0	0.0	8.3	811
HaywardSidingBO	Site Work		2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.3	0.0	0.0	0.3	24	0.0	0.0	0.0	0.0	0.0			4.9	0.0	0.0	5.0	483
HaywardSidingBO	Site Work		2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0			9.5	0.0	0.0	9.6	932
HaywardSidingBO	Site Work		2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0			4.2	0.0	0.0	4.3	415
HaywardSidingBO	Site Work		2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.0	0.0	0.0	0.0			12.8	0.0	0.0	12.9	1,257
HaywardSidingBO	Site Work		2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.1	0.6	0.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0			0.4	0.0	0.0	0.4	38
HaywardSidingBOSW2024	SW		2024																																												
HaywardSidingBO	Utilities		2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			1.0	0.0	0.0	1.0	99
HaywardSidingBO	Utilities		2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	5
HaywardSidingBOAOAI2024	Util		2024																																											
HaywardSidingC1	Rail Work (Prep)		2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.0	0.0	0.0	0.0			3.3	0.0	0.0	3.3	326
HaywardSidingC1	Rail Work (Prep)		2024	Regulator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.0	2.5	0.1	0.1			0.0	0.5	0.0	0.0	0.5	46	0.0	0.0	0.0	0.0	0.0			4.7	0.0	0.0	4.7	456
HaywardSidingC1	Rail Work (Prep)		2024	Speedswing	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	208
HaywardSidingC1	Rail Work (Prep)		2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.3	0.0	0.0	0.3	30	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	120
HaywardSidingC1	Rail Work (Prep)		2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	2.1	1.4	0.1	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.0	0.0	0.0	0.0			2.8	0.0	0.0	2.9	279
HaywardSidingC1	Rail Work (Prep)		2024	Backhoe	2	4	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingC1RWPrep2024	RWPrep		2024																																												
HaywardSidingC1	Rail Work (Production)		2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	0.8	7.7	4.3	0.6	0.5			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	45
HaywardSidingC1	Rail Work (Production)		2024	Tie Inserter/Ren	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	1.2	0.0	0.0	1.2	122	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	122
HaywardSidingC1	Rail Work (Production)		2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	0.8	0.0	0.0	0.8	79	0.0	0.0	0.0	0.0	0.0			0.8	0.0	0.0	0.8	79
HaywardSidingC1	Rail Work (Production)		2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			0.1	0.0	0.0	0.1	10
HaywardSidingC1	Rail Work (Production)		2024	Spiker	4	7	3	3	Other Construction Equipment	100	100	0.4	Diesel	61	2024Other Construction Equipme	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.9	8.4	9.2	0.5	0.5			0.0	0.6	0.0	0.0	0.6	61	0.0	0.0	0.0	0.0	0.0			1.9	0.0	0.0	1.9	183
HaywardSidingC1	Rail Work (Production)		2024	Anchor Spreade	4	7	3	3	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			1.4	0.0	0.0	1.4	135
HaywardSidingC1RWProduction2024	RWProduction		2024																																												
HaywardSidingC1	Structures		2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingC1	Structures		2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	207
HaywardSidingC1	Structures		2024	Wheel Loader	1	6	5	5	Rubber Tired Loaders	300	250	0.4	Diesel	22	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	1.7	1.1	0.1	0.1			0.0	0.2	0.0	0.0	0.2	22	0.0	0.0	0.0	0.0	0.0			1.1	0.0	0.0	1.1	111
HaywardSidingC1	Structures		2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.5	0.5	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.2	0.0	0.0	0.2	15
HaywardSidingC1	Structures		2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.5	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.3	0.0	0.0	0.3	27
HaywardSidingC1	Structures		2024	Rough Terrain F	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.3	0.6	0.1	0.1			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	46
HaywardSidingC1Sir2024	Sir		2024																																											
HaywardSidingE	Site Work		2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0			8.3	0.0	0.0	8.3	811
HaywardSidingE	Site Work		2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.3

| IndustrialParkwayC15tr2025 | Str | 2025 | | |





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Employee Onroad Calculations Location Offsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle	g/mi (EMFAC_AP 42)										Process g/trip (EMFAC)								Pounds per day								Metric tons per day					Gal per day
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	HaywardSidingBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingBOA	HaywardSidingBOAUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingBOA	HaywardSidingBOARWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingBOA	HaywardSidingBOARWProduction2(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingBOA	HaywardSidingBOASbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingBO	HaywardSidingBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingBO	HaywardSidingBOUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingBO	HaywardSidingBORWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingBO	HaywardSidingBORWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingBO	HaywardSidingBOSbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingC1	HaywardSidingC1SW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingC1	HaywardSidingC1Uti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingC1	HaywardSidingC1RWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingC1	HaywardSidingC1RWProduction2(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingC1	HaywardSidingC1Sbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingD	HaywardSidingDSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingD	HaywardSidingDUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingD	HaywardSidingDRWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingD	HaywardSidingDRWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingD	HaywardSidingDSbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBOA	IndustrialParkwayBOAUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
IndustrialParkwayBOA	IndustrialParkwayBOARWProductio	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBOA	IndustrialParkwayBOARdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayBOA	IndustrialParkwayBOASbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOASW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBOA	IndustrialParkwayBOAUti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	8
IndustrialParkwayBOA	IndustrialParkwayBOARWProduction	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBOA	IndustrialParkwayBOARdway2025	2025 Roadway Wo	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayBO	IndustrialParkwayBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBO	IndustrialParkwayBOUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
IndustrialParkwayBO	IndustrialParkwayBORWProduction	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBO	IndustrialParkwayBORdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayBO	IndustrialParkwayBOSbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBO	IndustrialParkwayBOUti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	8
IndustrialParkwayBO	IndustrialParkwayBORWProduction	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBO	IndustrialParkwayBORdway2025	2025 Roadway Wo	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayC1	IndustrialParkwayC1SW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayC1	IndustrialParkwayC1Uti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayC1	IndustrialParkwayC1RWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayC1	IndustrialParkwayC1RWProduction(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayC1	IndustrialParkwayC1Rdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayC1	IndustrialParkwayC1Sbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayC1	IndustrialParkwayC1SW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayC1	IndustrialParkwayC1Uti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayC1	IndustrialParkwayC1RWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	10	20	234

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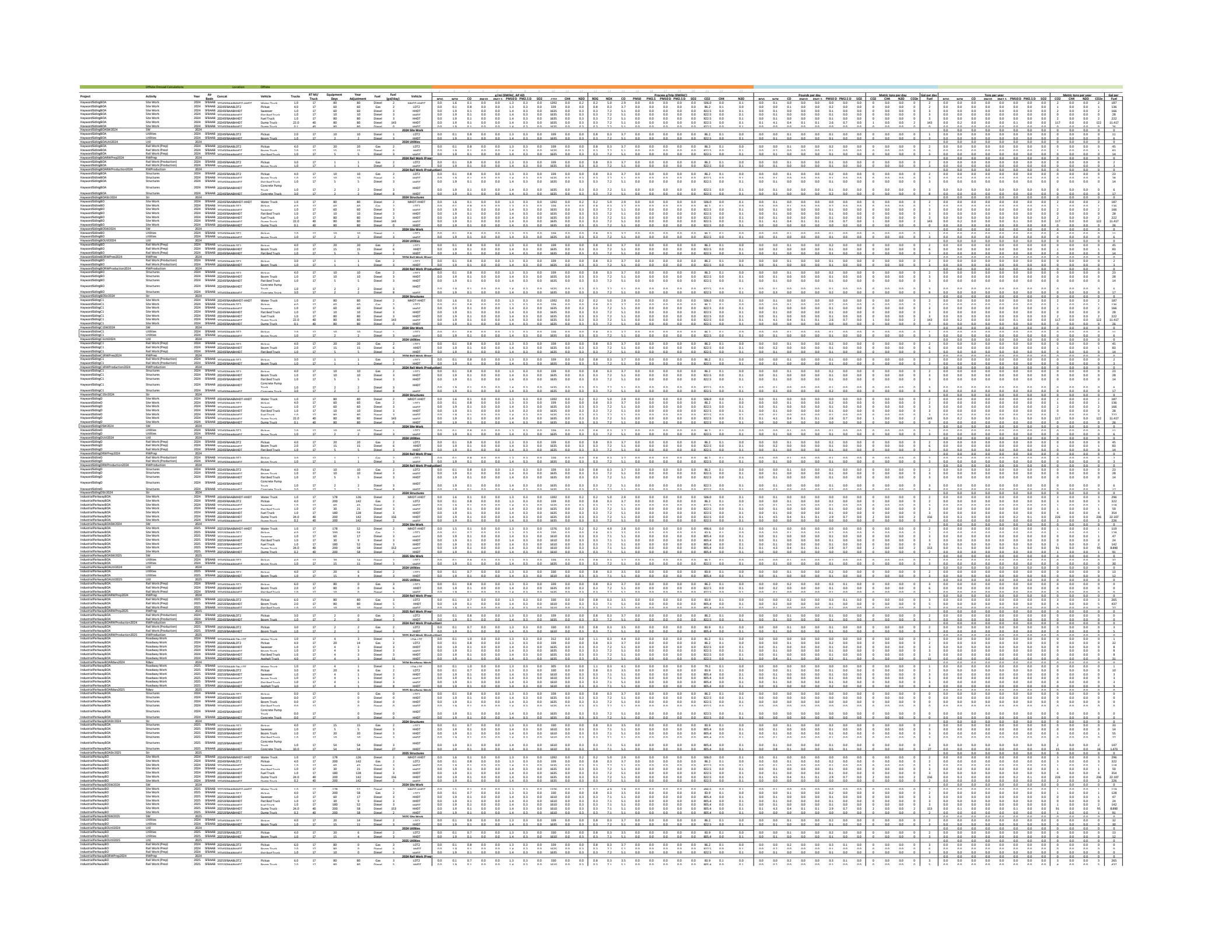
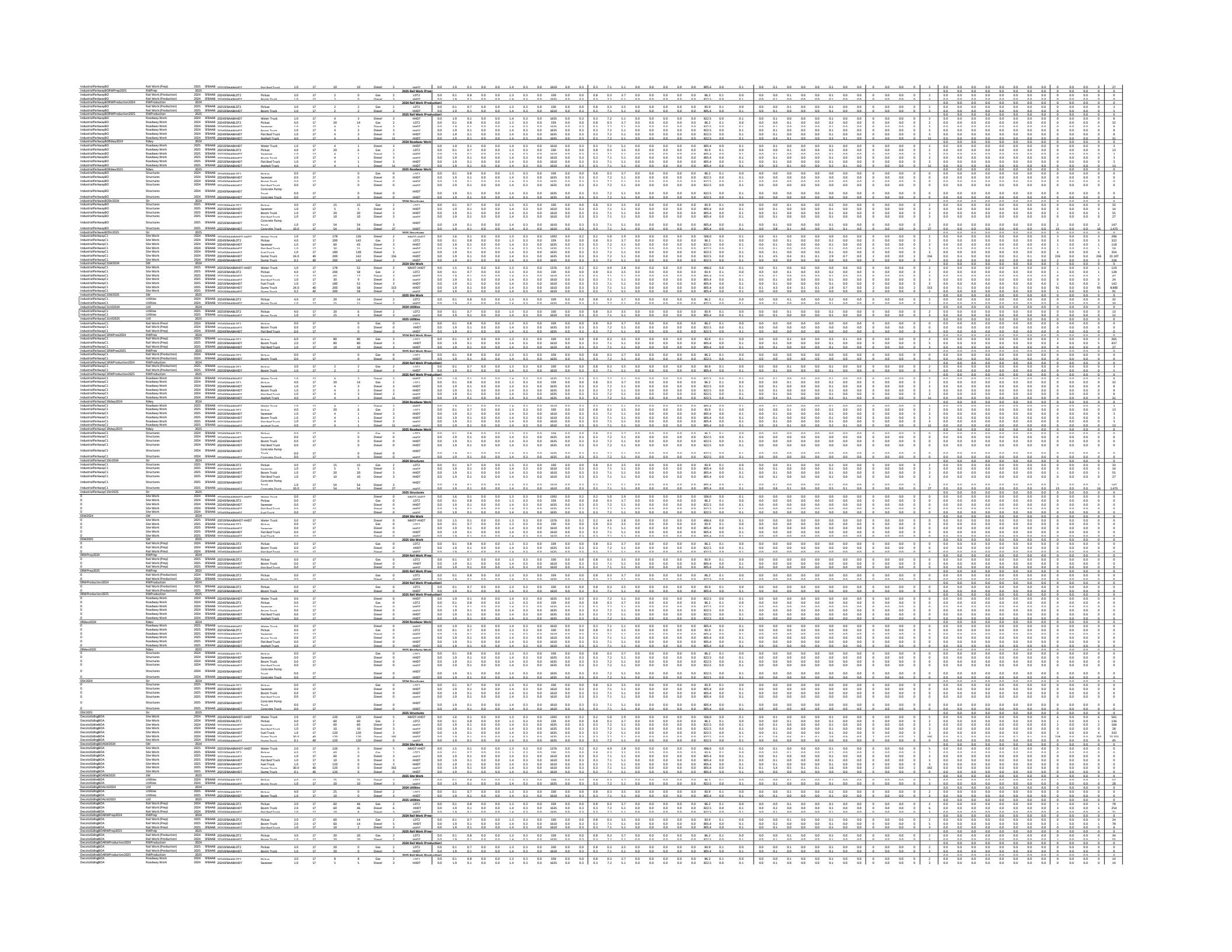
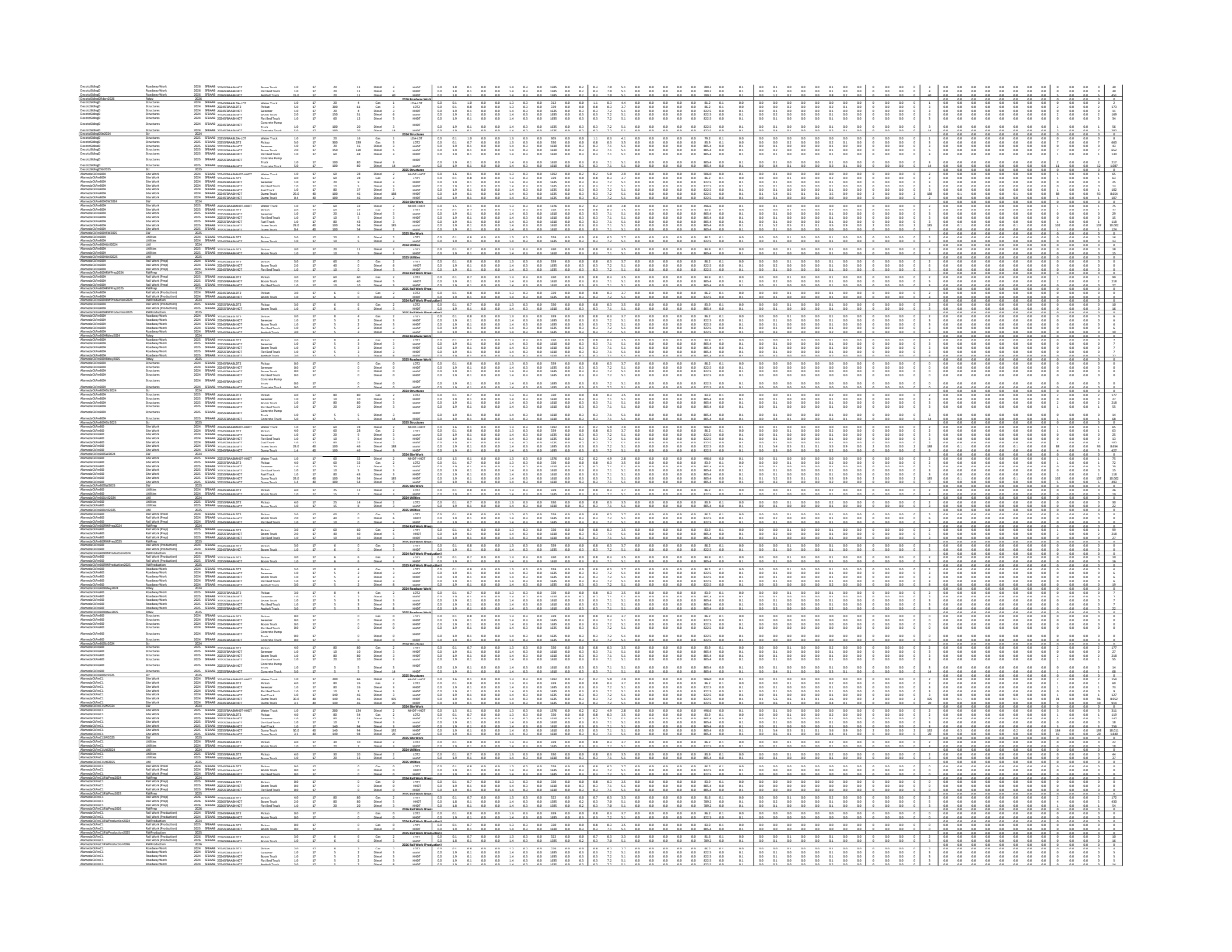






Locomotive Calculations | Location | Offsite and Onsite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingBOARWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingBORWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingC1RWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingDRWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
IndustrialParkwayBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	3	10	10	4400	0.2	Diesel	120	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	27.2	1,198
IndustrialParkwayBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	15	15	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.6	1.2	0.0	0.0	0.0	0.0	0.0	290.3	0.0	0.0	293.2	12,899
IndustrialParkwayBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
IndustrialParkwayBOARWPrep2025	RWPrep2025												15.6	184.8	338.2	2.8	2.7	0.0	0.0	0.9	41.4	0.0	0.0	41.8	1,840	0.1	1.1	2.1	0.0	0.0	0.0	0.0	0.0	510.9	0.0	0.0	515.9	22,697
IndustrialParkwayBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	3	10	10	4400	0.2	Diesel	120	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	27.2	1,198
IndustrialParkwayBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	15	15	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.6	1.2	0.0	0.0	0.0	0.0	0.0	290.3	0.0	0.0	293.2	12,899
IndustrialParkwayBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
IndustrialParkwayBORWPrep2025	RWPrep2025												15.6	184.8	338.2	2.8	2.7	0.0	0.0	0.9	41.4	0.0	0.0	41.8	1,840	0.1	1.1	2.1	0.0	0.0	0.0	0.0	0.0	510.9	0.0	0.0	515.9	22,697
IndustrialParkwayC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	3	10	10	4400	0.2	Diesel	120	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	27.2	1,198
IndustrialParkwayC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	15	15	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.6	1.2	0.0	0.0	0.0	0.0	0.0	290.3	0.0	0.0	293.2	12,899
IndustrialParkwayC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
IndustrialParkwayC1RWPrep2025	RWPrep2025												15.6	184.8	338.2	2.8	2.7	0.0	0.0	0.9	41.4	0.0	0.0	41.8	1,840	0.1	1.1	2.1	0.0	0.0	0.0	0.0	0.0	510.9	0.0	0.0	515.9	22,697
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	8	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	975
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	5	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	3,934
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	10	8	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	6,557
DecotoSidingBOARWPrep2024	RWPrep2024												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	11,466
DecotoSidingBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	8	2	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	304
DecotoSidingBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	6	1	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	27.9	1,225
DecotoSidingBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	2,042
DecotoSidingBOARWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	3,571
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	8	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	975
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	5	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	3,934
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	10	8	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	6,557
DecotoSidingBORWPrep2024	RWPrep2024												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	11,466
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	8	2	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	304
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	6	1	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	27.9	1,225
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	2,042
DecotoSidingBORWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	3,571
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	8	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	975
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	5	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	3,934
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	10	8	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	6,557
DecotoSidingC1RWPrep2024	RWPrep2024												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	11,466
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	8	2	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	304
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	6	1	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	27.9	1,225
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	2,042
DecotoSidingC1RWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	3,571
DecotoSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	12	0	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	0	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingDRWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	4	12	12	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	43.2	0.0	0.0	43.6	1,918
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
DecotoSidingDRWPrep2026	RWPrep2026	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	1.0	1.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
DecotoSidingDRWPrep2026	RWPrep2026												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.1	1.0	1.8	0.0	0.0	0.0	0.0	0.0	430.3	0.0	0.0	434.5	19,116
AlamedaCkFreBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	6	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	21.8	959
AlamedaCkFreBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	4	4	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	77.4	0.0	0.0	78.2	3,440
AlamedaCkFreBOARWPrep2025	RWPrep2025												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	99.0	0.0	0.0	100.0	4,398
AlamedaCkFreBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	6	0	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
AlamedaCkFreBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	4

Earth Moving Calculations Location Onsite

Code	Days	Grading (acres)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor						Pounds per day								Metric tons per day				Gal per day
					PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA																							
HaywardSidingBOASW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOAUtil	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOARWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBOARWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOAStr	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBO																							
HaywardSidingBOSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOUtil	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBORWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBORWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOStr	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1																							
HaywardSidingC1SW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingC1Util	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1RWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingC1RWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1Str	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingD																							
HaywardSidingDSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingDUtil	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDRWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingDRWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDStr	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOA																							
IndustrialParkwayBOASW	200	0.75	59,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOAUtil	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOARWPrep	80	0.00	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOARWProducti	2	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOAStr	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBO																							
IndustrialParkwayBOSW	200	0.75	59,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOUtil	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBORWPrep	80	0.00	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBORWProductio	2	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOStr	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1																							
IndustrialParkwayC1SW	200	0.75	59,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayC1Util	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1RWPrep	80	0.00	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1RWProductior	2	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1Str	20	0.00	0		1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
																0.0	0.0						
																0.0	0.0						
																0.0	0.0						
																0.0	0.0						
																0.0	0.0						
DecotoSidingBOA																							
DecotoSidingBOASW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOAUtil	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOARWPrep	80	0.00	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBOARWProduction	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOAStr	0	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBO																							
DecotoSidingBOSW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOUtil	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBORWPrep	80	0.00	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBORWProduction	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOStr	0	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1																							
DecotoSidingC1SW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingC1Util	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1RWPrep	80	0.00	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingC1RWProduction	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1Str	0	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingD																							
DecotoSidingDSW	200	0.75	179,823	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.7	2.5						
DecotoSidingDUtil	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDRWPrep	80	0.00	26,100	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingDRWProduction	10	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDStr	61	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOA																							
AlamedaCkFreBOASW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
AlamedaCkFreBOAUtil	100	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOARWPrep	80	0.00	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						

AlamedaCkFreBOARWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBOAStr	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBO															
AlamedaCkFreBOSW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4		4.6	2.5		
AlamedaCkFreBOUtil	100	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBORWPrep	80	0.00	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBORWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBOStr	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreC1															
AlamedaCkFreC1SW	140	0.75	49,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4		4.6	2.5		
AlamedaCkFreC1RWPrep	80	0.00	17,250	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.1	0.0		
AlamedaCkFreC1RWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreC1Str	360	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreD															
AlamedaCkFreDSW	80	0.75	77,975	6	1.1	0.1145	0.0002	0.0000	0.8	0.4		4.8	2.5		
AlamedaCkFreDRWPrep	80	0.00	9,725	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreDRWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreDStr	300	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		

Paving Calculations Location Onsite

Code	Days	Paved (sf)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
IndustrialParkwayBOA			2.6													
IndustrialParkwayBOASW	200	243,936	2.6	0.1												
IndustrialParkwayBOARW			2.6													
IndustrialParkwayBOAStr			2.6													
IndustrialParkwayBO			2.6													
IndustrialParkwayBOSW	200	243,936	2.6	0.1												
IndustrialParkwayBORW			2.6													
IndustrialParkwayBOStr			2.6													
IndustrialParkwayC1			2.6													
IndustrialParkwayC1SW	200	243,936	2.6	0.1												
IndustrialParkwayC1RW			2.6													
IndustrialParkwayC1Str			2.6													
DecotoSidingBOA			2.6													
DecotoSidingBOASW	120	8,712	2.6	0.0												
DecotoSidingBOARW			2.6													
DecotoSidingBOAStr			2.6													
DecotoSidingBO			2.6													
DecotoSidingBOSW	120	8,712	2.6	0.0												
DecotoSidingBORW			2.6													
DecotoSidingBOStr			2.6													
DecotoSidingC1			2.6													
DecotoSidingC1SW	120	8,712	2.6	0.0												
DecotoSidingC1RW			2.6													
DecotoSidingC1Str			2.6													
AlamedaCkFreBOA			2.6													
DecotoSidingD			2.6													
DecotoSidingDSW	200	365,904	2.6	0.1												
DecotoSidingDRW			2.6													
DecotoSidingDStr			2.6													
AlamedaCkFreBOA			2.6													
AlamedaCkFreBOASW	100	27,007	2.6	0.0												
AlamedaCkFreBOARW			2.6													
AlamedaCkFreBOAStr			2.6													
AlamedaCkFreBO			2.6													
AlamedaCkFreBOSW	100	27,007	2.6	0.0												
AlamedaCkFreBORW			2.6													
AlamedaCkFreBOStr			2.6													
AlamedaCkFreC1			2.6													
AlamedaCkFreC1SW	140	87,120	2.6	0.0												
AlamedaCkFreC1RW			2.6													
AlamedaCkFreC1Str			2.6													
AlamedaCkFreD			2.6													
AlamedaCkFreDSW	80	21,780	2.6	0.0												
AlamedaCkFreDRW			2.6													
AlamedaCkFreDStr			2.6													

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA			0.023	0.003													
HaywardSidingBOASW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBOARW			0.023	0.003													
HaywardSidingBOAStr			0.023	0.003													
HaywardSidingBO			0.023	0.003													
HaywardSidingBOSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBORW			0.023	0.003													
HaywardSidingBOStr			0.023	0.003													
HaywardSidingC1			0.023	0.003													
HaywardSidingC1SW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingC1RW			0.023	0.003													
HaywardSidingC1Str			0.023	0.003													
HaywardSidingD			0.023	0.003													
HaywardSidingDSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingDRW			0.023	0.003													
HaywardSidingDStr			0.023	0.003													
IndustrialParkwayBOA			0.023	0.003													
IndustrialParkwayBOAS	200	861	0.023	0.003						0.1	0.0						
IndustrialParkwayBOARW			0.023	0.003													
IndustrialParkwayBOAStr			0.023	0.003													
IndustrialParkwayBO			0.023	0.003													
IndustrialParkwayBOSW	200	861	0.023	0.003						0.1	0.0						
IndustrialParkwayBORW			0.023	0.003													
IndustrialParkwayBOStr			0.023	0.003													
IndustrialParkwayC1			0.023	0.003													
IndustrialParkwayC1SW	200	861	0.023	0.003						0.1	0.0						
IndustrialParkwayC1RW			0.023	0.003													
IndustrialParkwayC1Str			0.023	0.003													
IndustrialParkwayD			0.023	0.003													
IndustrialParkwayDSW			0.023	0.003													
IndustrialParkwayDRW			0.023	0.003													
IndustrialParkwayDStr			0.023	0.003													
DecotoSidingBOA			0.023	0.003													
DecotoSidingBOASW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBOARW			0.023	0.003													
DecotoSidingBOAStr			0.023	0.003													
DecotoSidingBO			0.023	0.003													
DecotoSidingBOSW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBORW			0.023	0.003													
DecotoSidingBOStr			0.023	0.003													
DecotoSidingC1			0.023	0.003													
DecotoSidingC1SW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingC1RW			0.023	0.003													
DecotoSidingC1Str			0.023	0.003													
DecotoSidingD			0.023	0.003													
DecotoSidingDSW	200	22,629	0.023	0.003						2.6	0.4						
DecotoSidingDRW			0.023	0.003													
DecotoSidingDStr			0.023	0.003													
AlamedaCkFreBOA			0.023	0.003													
AlamedaCkFreBOASW	100	632	0.023	0.003						0.1	0.0						
AlamedaCkFreBOARW			0.023	0.003													
AlamedaCkFreBOAStr			0.023	0.003													
AlamedaCkFreBO			0.023	0.003													
AlamedaCkFreBOSW	100	2,528	0.023	0.003						0.6	0.1						
AlamedaCkFreBORW			0.023	0.003													

AlamedaCkFreBOStr			0.023	0.003					
AlamedaCkFreC1			0.023	0.003					
AlamedaCkFreC1SW	140	7,585	0.023	0.003		1.2	0.2		
AlamedaCkFreC1RW			0.023	0.003					
AlamedaCkFreC1Str			0.023	0.003					
AlamedaCkFreD			0.023	0.003					
AlamedaCkFreDSW	80	632	0.023	0.003		0.2	0.0		
AlamedaCkFreDRW			0.023	0.003					
AlamedaCkFreDStr			0.023	0.003					

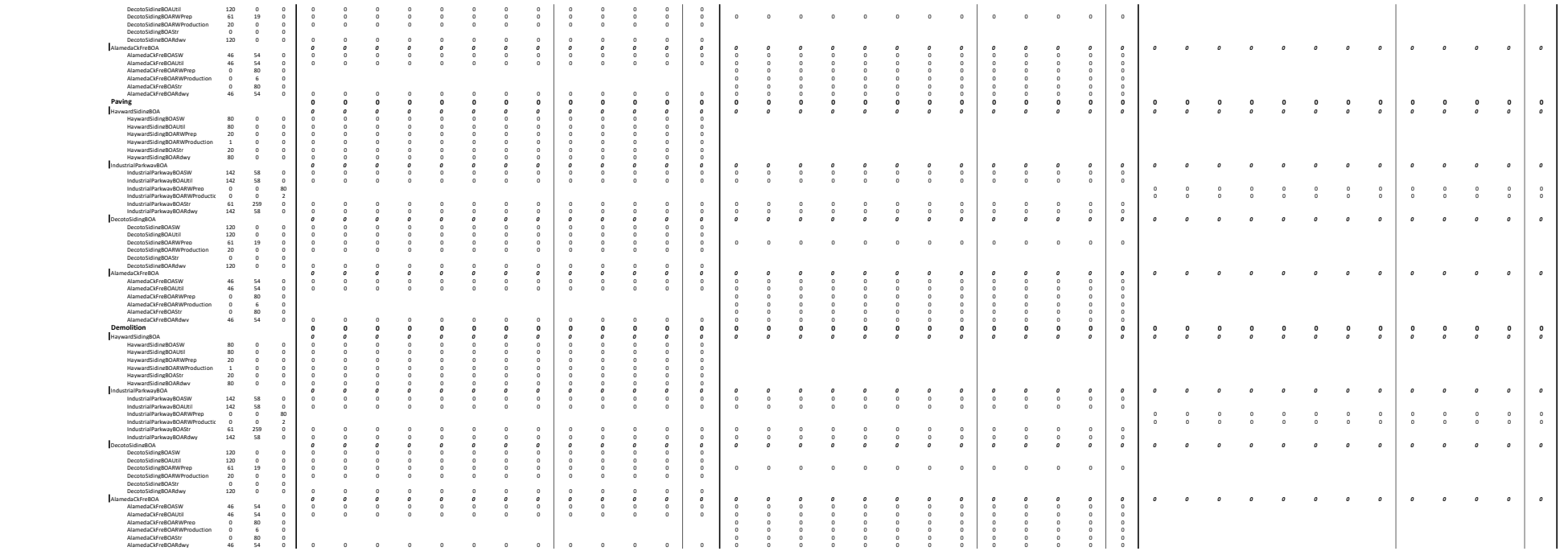
Niles-Oakland Grade-Separated – Mitigated Emissions Calculation Sheet

1		2	3	4	5	6		
Code	**Description**	**Start Date**	**Working Days**	**2024**	**2025**	**2026**		**End Date**
HaywardSidingBOA	HAYWARD SIDING BOA							
HaywardSidingBOASW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOAUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBOARWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBOARWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOAStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBOARdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBO	HAYWARD SIDING BO						-	
HaywardSidingBOSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBORWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBORWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBORdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1	HAYWARD SIDING C1						-	
HaywardSidingC1SW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1Util	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingC1RWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingC1RWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingC1Str	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingC1Rdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingD	HAYWARD SIDING D						-	
HaywardSidingDSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingDUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingDRWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingDRWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingDStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingDRdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
IndustrialParkwayBOA	INDUSTRIAL PARKWAY BOA						-	
IndustrialParkwayBOASW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOAUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBOARWPrep	Rail Work (Prep)	1/2/2026	80	0	0	80	-	4/24/2026
IndustrialParkwayBOARWProduction	Rail Work (Production)	1/2/2026	2	0	0	2	-	1/6/2026
IndustrialParkwayBOAStr	Structures	10/8/2024	320	61	259		-	12/30/2025
IndustrialParkwayBOARdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBO	INDUSTRIAL PARKWAY BO						-	
IndustrialParkwayBOSW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBORWPrep	Rail Work (Prep)	1/2/2026	80	0	0	80	-	4/24/2026
IndustrialParkwayBORWProduction	Rail Work (Production)	1/2/2026	2	0	0	2	-	1/6/2026
IndustrialParkwayBOStr	Structures	10/8/2024	320	61	259		-	12/30/2025
IndustrialParkwayBORdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1	INDUSTRIAL PARKWAY C1						-	
IndustrialParkwayC1SW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1Util	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayC1RWPrep	Rail Work (Prep)	1/2/2026	80	0	0	80	-	4/24/2026
IndustrialParkwayC1RWProduction	Rail Work (Production)	1/2/2026	2	0	0	2	-	1/6/2026
IndustrialParkwayC1Str	Structures	10/8/2024	320	61	259		-	12/30/2025
IndustrialParkwayC1Rdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayD	INDUSTRIAL PARKWAY D						-	
IndustrialParkwayDSW	Site Work						-	
IndustrialParkwayDUtil	Utilities							
IndustrialParkwayDRWPrep	Rail Work (Prep)						-	
IndustrialParkwayDRWProduction	Rail Work (Production)						-	
IndustrialParkwayDStr	Structures						-	
IndustrialParkwayDRdwy	Roadway Work						-	
DecotoSidingBOA	DECOTO SIDING BOA						-	
DecotoSidingBOASW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOAUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBOARWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBOARWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOAStr	Structures	N/A	0	0	0		-	
DecotoSidingBOARdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBO	DECOTO SIDING BO						-	
DecotoSidingBOSW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBORWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBORWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOStr	Structures	N/A	0	0	0		-	
DecotoSidingBORdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1	DECOTO SIDING C1						-	
DecotoSidingC1SW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1Util	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingC1RWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingC1RWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingC1Str	Structures	N/A	0	0	0		-	
DecotoSidingC1Rdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingD	DECOTO SIDING D						-	
DecotoSidingDSW	Site Work	1/2/2024	200	200	0		-	10/8/2024
DecotoSidingDUtil	Utilities	1/2/2024	200	200	0			10/8/2024
DecotoSidingDRWPrep	Rail Work (Prep)	1/20/2026	80	0	0	80	-	5/12/2026
DecotoSidingDRWProduction	Rail Work (Production)	1/20/2026	10	0	0	10	-	2/3/2026
DecotoSidingDStr	Structures	10/8/2024	300	61	239		-	12/2/2025
DecotoSidingDRdwy	Roadway Work	12/2/2025	50	0	22	28	-	2/10/2026
AlamedaCkFreBOA	ALAMEDA CREEK TO FREMONT BOA						-	
AlamedaCkFreBOASW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOAUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBOARWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025
AlamedaCkFreBOARWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOAStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBOARdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBO	ALAMEDA CREEK TO FREMONT BO						-	
AlamedaCkFreBOSW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBORWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025
AlamedaCkFreBORWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBORdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreC1	ALAMEDA CREEK TO FREMONT C1						-	
AlamedaCkFreC1SW	Site Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreC1Util	Utilities	10/29/2024	140	46	94			5/13/2025

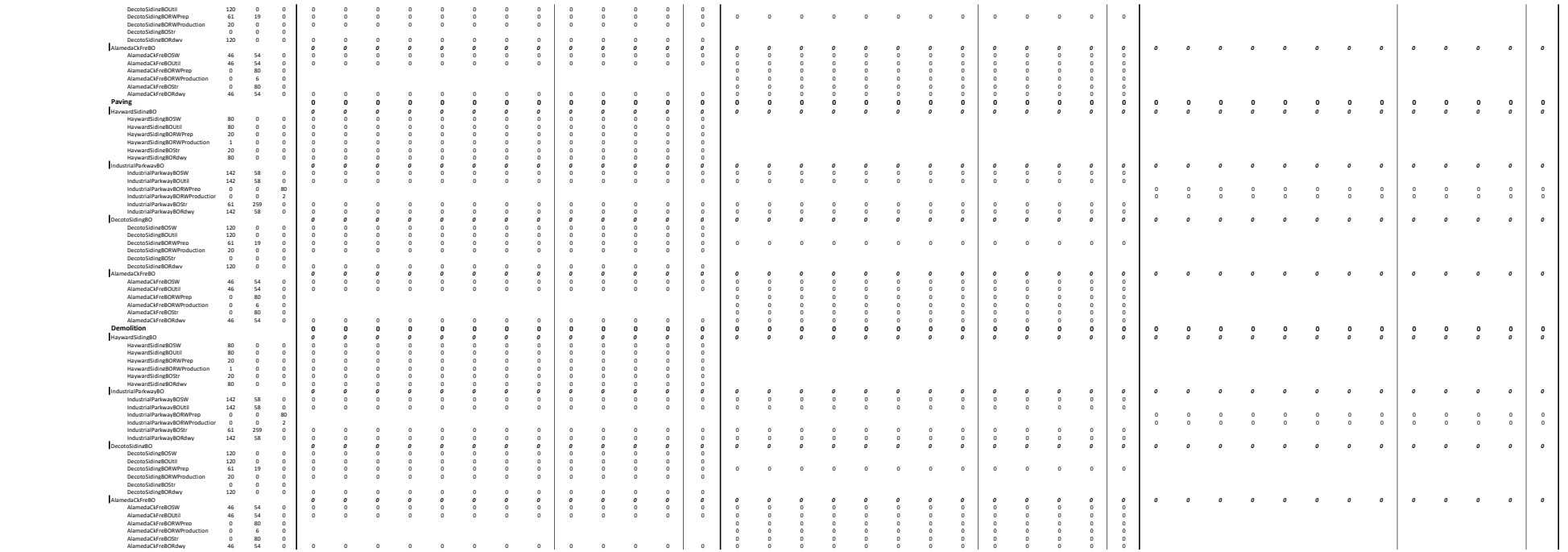
AlamedaCkFreC1RWPrep	Rail Work (Prep)	7/6/2026	80	0	0	80	-	10/26/2026
AlamedaCkFreC1RWProduction	Rail Work (Production)	7/6/2026	6	0	0	6	-	7/14/2026
AlamedaCkFreC1Str	Structures	2/18/2025	360	0	227	133	-	7/7/2026
AlamedaCkFreC1Rdwy	Roadway Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreD	ALAMEDA CREEK TO FREMONT D						-	
AlamedaCkFreDSW	Site Work	3/19/2025	80	0	80		-	7/9/2025
AlamedaCkFreDUtil	Utilities	3/19/2025	80	0	80			7/9/2025
AlamedaCkFreDRWPrep	Rail Work (Prep)	7/9/2025	80	0	80		-	10/29/2025
AlamedaCkFreDRWProduction	Rail Work (Production)	7/9/2025	6	0	6		-	7/17/2025
AlamedaCkFreDStr	Structures	1/24/2024	300	245	55		-	3/19/2025
AlamedaCkFreDRdwy	Roadway Work	10/18/2025	15	0	15		-	11/7/2025

12/31/2024
12/31/2025
12/31/2026

Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.0.A				**0**	**2**	**5**	**0**	**0**	**2**	**1**	**0**	**1,673**	**0**	**0**	**1,715**	**75,308**	**0**	**1**	**6**	**0**	**0**	**1**	**0**	**0**	**1,240**	**0**	**0**	**1,259**	**55,758**	**0**	**1**	**3**	**0**	**0**	**0**	**0**	**0**	**611**	**0**	**0**	**617**	**27,206**
Off-Road				**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**455**	**0**	**0**	**457**	**20,217**	**0**	**0**	**5**	**0**	**0**	**0**	**0**	**0**	**670**	**0**	**0**	**672**	**29,768**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**82**	**0**	**0**	**82**	**3,625**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,026***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																									
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																									
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	6	244																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***196***	***0***	***0***	***196***	***8,693***	***0***	***0***	***4***	***0***	***0***	***0***	***0***	***0***	***537***	***0***	***0***	***539***	***23,870***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***82***	***0***	***0***	***82***	***3,625***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	65	0	0	65	2,889	0	0	0	0	0	0	0	0	27	0	0	27	1,180												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	11	0	0	11	479	0	0	0	0	0	0	0	0	4	0	0	4	196												
IndustrialParkwayBOARWPreo	0	0	80																											0	0	0	0	0	0	0	0	65	0	0	65	2,898
IndustrialParkwayBOARWProductic	0	0	2																											0	0	0	0	0	0	0	0	16	0	0	16	726
IndustrialParkwayBOAStr	61	259	0	0	0	1	0	0	0	0	0	119	0	0	120	5,296	0	0	4	0	0	0	0	0	506	0	0	508	22,483												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	29	0	0	0	0	0	0	0	0	0	0	0	0	12												
DecotoSidingBOA				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***6,844***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***554***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	3,176																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	144																									
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	1,778	0	0	0	0	0	0	0	0	12	0	0	13	554												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,335																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	412																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***1,655***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***120***	***0***	***0***	***121***	***5,344***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	1,443	0	0	0	0	0	0	0	0	38	0	0	38	1,695												
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	69	0	0	0	0	0	0	0	0	2	0	0	2	81												
AlamedaCkFreBOARWPrep	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	1,334												
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	520												
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	1,547												
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	143	0	0	0	0	0	0	0	0	4	0	0	4	167												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**136**	**6,941**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**90**	**0**	**0**	**91**	**4,636**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**0**	**0**	**6**	**317**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																									
HaywardSidingBOARWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																									
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***2,905***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***51***	***0***	***0***	***51***	***2,625***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***6***	***317***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	1,644	0	0	0	0	0	0	0	0	13	0	0	13	656												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	439	0	0	0	0	0	0	0	0	3	0	0	3	175												
IndustrialParkwayBOARWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	295
IndustrialParkwayBOARWProductic	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	22
IndustrialParkwayBOAStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	29	1,466												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	822	0	0	0	0	0	0	0	0	6	0	0	6	328												
DecotoSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***72***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	926																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	371																									
DecotoSidingBOARWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	235	0	0	0	0	0	0	0	0	1	0	0	1	72												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	232																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	463																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***886***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***38***	***0***	***0***	***38***	***1,939***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407												
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	176	0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	453												
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	68												
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	604												
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**776**	**0**	**0**	**812**	**34,484**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**301**	**0**	**0**	**315**	**13,385**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**8**	**328**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																									
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																									
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***312***	***13,266***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***183***	***0***	***0***	***192***	***8,143***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***7***	***0***	***0***	***8***	***328***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	280	0	0	293	12,426	0	0	0	0	0	0	0	0	112	0	0	118	4,997												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	56	0	0	0	0	0	0	0	0	1	0	0	1	22												
IndustrialParkwayBOARWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	8	324
IndustrialParkwayBOARWProductic	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	4
IndustrialParkwayBOAStr	61	259	0	0	0	0	0	0	0	0	0	17	0	0	17	744	0	0	0	0	0	0	0	0	70	0	0	73	3,108												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	40	0	0	0	0	0	0	0	0	0	0	0	0	16												
DecotoSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***11,451***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***49***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	11,168																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	38																									
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	160	0	0	0	0	0	0	0	0	1	0	0	1	49												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	41																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	44																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***93***	***0***	***0***	***97***	***4,128***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***117***	***0***	***0***	***122***	***5,193***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	92	0	0	96	4,095	0	0	0	0	0	0	0	0	107	0	0	112	4,733												
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	15												
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	156												
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	12												
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	253												
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	23												
Locomotive				**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**13,665**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**179**	**0**	**0**	**181**	**7,970**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**516**	**0**	**0**	**521**	**22,936**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***516***	***0***	***0***	***521***	***22,936***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOARWPreo	0	0	80																											0	1	2	0	0	0	0	0	516	0	0	521	22,936
IndustrialParkwayBOARWProductic	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	0
IndustrialParkwayBOAStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingBOA				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***11,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***3,571***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOARWPrep	61	19	0	0	1	1	0	0	0	0	0	258	0	0	261	11,466	0	0	0	0	0	0	0	0	80	0	0	81	3,571												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***4,398***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Code	Working Days			2024											2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.O.				**0**	**2**	**5**	**0**	**0**	**2**	**1**	**0**	**1,676**	**0**	**0**	**1,718**	**75,419**	**0**	**1**	**6**	**0**	**0**	**1**	**0**	**0**	**1,250**	**0**	**0**	**1,269**	**56,199**	**0**	**1**	**3**	**0**	**0**	**0**	**0**	**0**	**611**	**0**	**0**	**617**	**27,206**
Off-Road				**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**458**	**0**	**0**	**459**	**20,337**	**0**	**0**	**5**	**0**	**0**	**0**	**0**	**0**	**672**	**0**	**0**	**675**	**29,869**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**82**	**0**	**0**	**82**	**3,625**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																								
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																								
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																								
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																								
HaywardSidineBOStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	227																								
HaywardSidineBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBO				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***197***	***0***	***0***	***198***	***8,770***	***0***	***0***	***4***	***0***	***0***	***0***	***0***	***0***	***538***	***0***	***0***	***540***	***23,902***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***82***	***0***	***0***	***82***	***3,625***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	67	0	0	67	2,967	0	0	0	0	0	0	0	0	27	0	0	27	1,212												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	11	0	0	11	479	0	0	0	0	0	0	0	0	4	0	0	4	196												
IndustrialParkwayBORWPreo	0	0	80																											0	0	0	0	0	0	0	0	65	0	0	65	2,898
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	16	0	0	16	726
IndustrialParkwayBOStr	61	259	0	0	0	1	0	0	0	0	0	119	0	0	120	5,296	0	0	4	0	0	0	0	0	506	0	0	508	22,483												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	29	0	0	0	0	0	0	0	0	0	0	0	0	12												
DecotoSidingBO				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***6,844***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***554***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	3,176																								
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	144																								
DecotoSidingBORWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	1,778	0	0	0	0	0	0	0	0	12	0	0	13	554												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,335																								
DecotoSidingBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	412																								
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***39***	***0***	***0***	***39***	***1,714***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***122***	***5,413***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	1,443	0	0	0	0	0	0	0	0	38	0	0	38	1,695												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	102	0	0	0	0	0	0	0	0	3	0	0	3	119												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	1,334												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	520												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	1,547												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	4	0	0	4	169	0	0	0	0	0	0	0	0	4	0	0	4	198												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**135**	**6,907**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**93**	**0**	**0**	**94**	**4,799**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**0**	**0**	**6**	**317**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																								
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																								
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																								
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																								
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																								
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***2,905***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***51***	***0***	***0***	***51***	***2,625***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***6***	***317***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	1,644	0	0	0	0	0	0	0	0	13	0	0	13	656												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	439	0	0	0	0	0	0	0	0	3	0	0	3	175												
IndustrialParkwayBORWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	295
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	22
IndustrialParkwayBOStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	29	1,466												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	822	0	0	0	0	0	0	0	0	6	0	0	6	328												
DecotoSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***72***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	926																								
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	371																								
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	235	0	0	0	0	0	0	0	0	1	0	0	1	72												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	232																								
DecotoSidineBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	463																								
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***16***	***0***	***0***	***17***	***852***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***2,102***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	142	0	0	0	0	0	0	0	0	3	0	0	3	163												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	453												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	68												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	604												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	8	0	0	8	407												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**777**	**0**	**0**	**813**	**34,509**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**305**	**0**	**0**	**319**	**13,561**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**8**	**328**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																								
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																								
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																								
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																								
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																								
HaywardSidineBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***312***	***13,266***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***183***	***0***	***0***	***192***	***8,143***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***7***	***0***	***0***	***8***	***328***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	280	0	0	293	12,426	0	0	0	0	0	0	0	0	112	0	0	118	4,997												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	56	0	0	0	0	0	0	0	0	1	0	0	1	22												
IndustrialParkwayBORWPreo	32	0	80																											0	0	0	0	0	0	0	0	7	0	0	8	324
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	4
IndustrialParkwayBOStr	61	259	0	0	0	0	0	0	0	0	0	17	0	0	17	744	0	0	0	0	0	0	0	0	70	0	0	73	3,108												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	40	0	0	0	0	0	0	0	0	0	0	0	0	16												
DecotoSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***255***	***0***	***0***	***267***	***11,324***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***49***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	249	0	0	260	11,041																								
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	38																								
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	160	0	0	0	0	0	0	0	0	1	0	0	1	49												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	41																								
DecotoSidineBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	44																								
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***96***	***0***	***0***	***101***	***4,281***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***126***	***5,369***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	95	0	0	100	4,240	0	0	0	0	0	0	0	0	110	0	0	115	4,900												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	24												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	156												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	12												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	253												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	1	0	0	1	23												
Locomotive				**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**13,665**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**179**	**0**	**0**	**181**	**7,970**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**516**	**0**	**0**	**521**	**22,936**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																								
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***516***	***0***	***0***	***521***	***22,936***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBORWPreo	0	0	80																											0	1	2	0	0	0	0	0	516	0	0	521	22,936
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	0
IndustrialParkwayBOStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingBO				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***11,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***3,571***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBORWPreo	61	19	0	0	1	1	0	0	0	0	0	258	0	0	261	11,466	0	0	0	0	0	0	0	0	80	0	0	81	3,571												
DecotoSidineBORWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOStr	0	0	0																																						
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***4,398***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0



Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
C.1.				**0**	**2**	**5**	**0**	**0**	**2**	**1**	**0**	**1,691**	**0**	**0**	**1,734**	**76,106**	**0**	**1**	**5**	**0**	**0**	**1**	**0**	**0**	**1,283**	**0**	**0**	**1,306**	**58,033**	**0**	**2**	**5**	**0**	**0**	**0**	**0**	**0**	**1,077**	**0**	**0**	**1,087**	**48,222**
Off-Road				**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**460**	**0**	**0**	**462**	**20,442**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**639**	**0**	**0**	**641**	**28,398**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**276**	**0**	**0**	**277**	**12,282**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																								
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																								
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																								
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																								
HaywardSidinaC1Str	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	227																								
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayC1				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***197***	***0***	***0***	***198***	***8,770***	***0***	***0***	***4***	***0***	***0***	***0***	***0***	***0***	***538***	***0***	***0***	***540***	***23,902***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***82***	***0***	***0***	***82***	***3,625***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	67	0	0	67	2,967	0	0	0	0	0	0	0	0	27	0	0	27	1,212											
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	11	0	0	11	479	0	0	0	0	0	0	0	0	4	0	0	4	196											
IndustrialParkwayC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	65	0	0	65	2,898
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	16	0	0	16	726
IndustrialParkwayC1Str	61	259	0	0	0	1	0	0	0	0	0	119	0	0	120	5,296	0	0	4	0	0	0	0	0	506	0	0	508	22,483											
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	29	0	0	0	0	0	0	0	0	0	0	0	0	12											
DecotoSidingC1				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***6,844***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***554***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	3,176																								
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	144																								
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	1,778	0	0	0	0	0	0	0	0	12	0	0	13	554											
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,335																								
DecotoSidinaC1Str	0	0	0																																					
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	412																								
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***1,818***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***89***	***0***	***0***	***89***	***3,943***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***195***	***0***	***0***	***196***	***8,658***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	36	0	0	37	1,617	0	0	0	0	0	0	0	0	74	0	0	75	3,305											
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	96	0	0	0	0	0	0	0	0	4	0	0	4	196											
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	71	0	0	71	3,136
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	30	0	0	30	1,322
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	5	0	0	5	225	0	0	1	0	0	0	0	0	95	0	0	95	4,200
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	106	0	0	0	0	0	0	0	0	5	0	0	5	216											
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**136**	**6,943**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**145**	**0**	**0**	**146**	**7,467**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**49**	**0**	**0**	**50**	**2,545**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																								
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																								
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																								
HaywardSidinaC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																								
HaywardSidinaC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																								
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***2,905***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***51***	***0***	***0***	***51***	***2,625***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***6***	***317***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	1,644	0	0	0	0	0	0	0	0	13	0	0	13	656											
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	439	0	0	0	0	0	0	0	0	3	0	0	3	175											
IndustrialParkwayC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	295
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	22
IndustrialParkwayC1Str	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	29	1,466											
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	822	0	0	0	0	0	0	0	0	6	0	0	6	328											
DecotoSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***72***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	926																								
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	371																								
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	235	0	0	0	0	0	0	0	0	1	0	0	1	72											
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	232																								
DecotoSidinaC1Str	0	0	0																																					
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	463																								
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***888***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***92***	***0***	***0***	***93***	***4,770***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***2,227***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	14	0	0	14	709											
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	3	0	0	3	178	0	0	0	0	0	0	0	0	7	0	0	7	355											
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	9	0	0	9	443
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	1	0	0	1	66
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	58	0	0	59	2,997	0	0	0	0	0	0	0	0	33	0	0	34	1,718
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	355	0	0	0	0	0	0	0	0	14	0	0	14	709											
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**789**	**0**	**0**	**826**	**35,056**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**419**	**0**	**0**	**437**	**18,596**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**	**0**	**0**	**27**	**1,182**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																								
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																								
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																								
HaywardSidinaC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																								
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																								
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***312***	***13,266***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***183***	***0***	***0***	***192***	***8,143***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***7***	***0***	***0***	***8***	***328***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	280	0	0	293	12,426	0	0	0	0	0	0	0	0	112	0	0	118	4,997											
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	56	0	0	0	0	0	0	0	0	1	0	0	1	22											
IndustrialParkwayC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	8	324
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	4
IndustrialParkwayC1Str	61	259	0	0	0	0	0	0	0	0	0	17	0	0	17	744	0	0	0	0	0	0	0	0	70	0	0	73	3,108											
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	40	0	0	0	0	0	0	0	0	0	0	0	0	16											
DecotoSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***11,451***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***49***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	11,168																								
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	38																								
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	160	0	0	0	0	0	0	0	0	1	0	0	1	49											
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	41																								
DecotoSidinaC1Str	0	0	0																																					
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	44																								
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***106***	***0***	***0***	***111***	***4,700***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***234***	***0***	***0***	***245***	***10,404***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***19***	***0***	***0***	***20***	***854***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	105	0	0	110	4,667	0	0	0	0	0	0	0	0	211	0	0	221	9,390											
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	1	0	0	1	37											
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	7	297
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	0	0	0	0	12
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	21	0	0	22	948	0	0	0	0	0	0	0	0	12	0	0	13	545
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	1	0	0	1	29											
Locomotive				**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**13,665**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**80**	**0**	**0**	**81**	**3,571**	**0**	**2**	**3**	**0**	**0**	**0**	**0**	**0**	**725**	**0**	**0**	**732**	**32,213**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																								
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***516***	***0***	***0***	***521***	***22,936***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayC1RWPreo	0	0	80																											0	1	2	0	0	0	0	0	516	0	0	521	22,936
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	0
IndustrialParkwayC1Str	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidingC1				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***11,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***3,571***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingC1RWPreo	61	19	0	0	1	1	0	0	0	0	0	258	0	0	261	11,466	0	0	0	0	0	0	0	0	80	0	0	81	3,571											
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidinaC1Str	0	0	0																																					
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***209***	***0***	***0***	***211***	***9,276***
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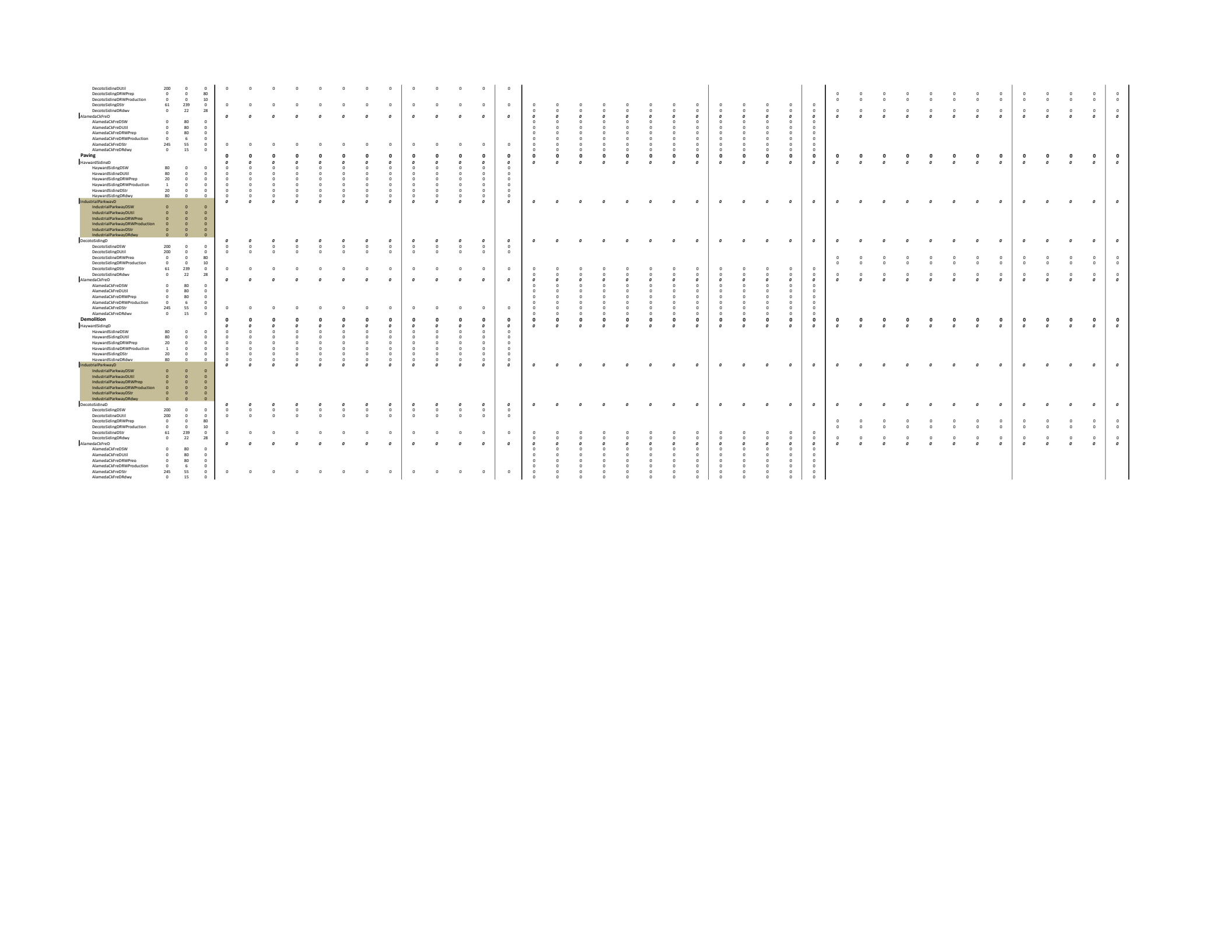
Code	Working Days			2024											2025												2026										
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
D				**0**	**2**	**5**	**0**	**0**	**2**	**1**	**0**	**2,043**	**0**	**0**	**2,103**	**91,239**	**0**	**1**	**4**	**0**	**0**	**1**	**0**	**0**	**804**	**0**	**0**	**816**	**36,174**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**552**	**0**	**0**	**557**	**24,613**
Off-Road				**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**695**	**0**	**0**	**697**	**30,863**	**0**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**436**	**0**	**0**	**437**	**19,368**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**97**	**0**	**0**	**98**	**4,331**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***3,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	1,785																								
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	47																								
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	690																								
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	260																								
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	227																								
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																					
IndustrialParkwayDUtil	0	0	0																																					
IndustrialParkwayDRWPrep	0	0	0																																					
IndustrialParkwayDRWProduction	0	0	0																																					
IndustrialParkwayDStr	0	0	0																																					
IndustrialParkwayDRdwy	0	0	0																																					
DecotoSidingD				***0***	***0***	***2***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***300***	***13,299***	***0***	***0***	***2***	***0***	***0***	***0***	***0***	***0***	***237***	***0***	***0***	***238***	***10,532***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***97***	***0***	***0***	***98***	***4,331***
DecotoSidingDSW	200	0	0	0	0	1	0	0	0	0	0	190	0	0	190	8,425																								
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	54	0	0	54	2,412																								
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	54	0	0	55	2,417
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	18	0	0	18	787
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	55	0	0	56	2,463	0	0	1	0	0	0	0	0	217	0	0	218	9,647											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	20	0	0	20	885	0	0	0	0	0	0	0	0	25	0	0	25	1,127
AlamedaCkFreD				***0***	***0***	***2***	***0***	***0***	***0***	***0***	***0***	***328***	***0***	***0***	***329***	***14,555***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***199***	***0***	***0***	***200***	***8,836***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	71	0	0	72	3,168												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	2	0	0	2	69												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	44	0	0	44	1,951												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	7	0	0	7	302												
AlamedaCkFreDStr	245	55	0	0	0	2	0	0	0	0	0	328	0	0	329	14,555	0	0	0	0	0	0	0	0	74	0	0	74	3,267												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	2	0	0	2	78												
Employee				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**0**	**0**	**68**	**3,478**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**0**	**0**	**63**	**3,223**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**11**	**0**	**0**	**11**	**561**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***923***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	618																								
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	154																								
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	77																								
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12																								
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	62																								
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																					
IndustrialParkwayDUtil	0	0	0																																					
IndustrialParkwayDRWPrep	0	0	0																																					
IndustrialParkwayDRWProduction	0	0	0																																					
IndustrialParkwayDStr	0	0	0																																					
IndustrialParkwayDRdwy	0	0	0																																					
DecotoSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***49***	***0***	***0***	***50***	***2,555***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***38***	***1,928***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***11***	***0***	***0***	***11***	***561***
DecotoSidingDSW	200	0	0	0	0	0	0	0	0	0	0	30	0	0	30	1,544																								
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	10	0	0	11	540																								
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	295
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	2	0	0	2	111
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	9	0	0	9	471	0	0	0	0	0	0	0	0	35	0	0	35	1,803											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	2	0	0	2	124	0	0	0	0	0	0	0	0	3	0	0	3	155
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***25***	***0***	***0***	***25***	***1,296***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	302												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	3	0	0	3	151												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	453												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	23												
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	311												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	1	0	0	1	57												
Off-Site On-Road				**0**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**1231**	**0**	**0**	**1288**	**54,699**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**185**	**0**	**0**	**193**	**8,226**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**0**	**0**	**14**	**605**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***5,639***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	5,526																								
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8																								
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	65																								
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2																								
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39																								
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																					
IndustrialParkwayDUtil	0	0	0																																					
IndustrialParkwayDRWPrep	0	0	0																																					
IndustrialParkwayDRWProduction	0	0	0																																					
IndustrialParkwayDStr	0	0	0																																					
IndustrialParkwayDRdwy	0	0	0																																					
DecotoSidingD				***0***	***2***	***0***	***0***	***0***	***1***	***0***	***0***	***1,083***	***0***	***0***	***1,133***	***48,092***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***34***	***0***	***0***	***36***	***1,520***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***605***
DecotoSidingDSW	200	0	0	0	2	0	0	0	1	0	0	1,071	0	0	1,120	47,559																								
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	5	0	0	5	203																								
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	272
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	0	0	0	0	20
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	7	0	0	8	330	0	0	0	0	0	0	0	0	29	0	0	30	1,269											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	6	0	0	6	251	0	0	0	0	0	0	0	0	7	0	0	7	314
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***22***	***0***	***0***	***23***	***969***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***151***	***0***	***0***	***158***	***6,706***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	140	0	0	147	6,232												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	7												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	5	0	0	5	221												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	12												
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	22	0	0	23	969	0	0	0	0	0	0	0	0	5	0	0	5	214												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	20												
Locomotive				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**50**	**0**	**0**	**50**	**2,199**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**121**	**0**	**0**	**122**	**5,357**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**430**	**0**	**0**	**435**	**19,116**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***2,199***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	2,199																								
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																					
IndustrialParkwayDUtil	0	0	0																																					
IndustrialParkwayDRWPrep	0	0	0																																					
IndustrialParkwayDRWProduction	0	0	0																																					
IndustrialParkwayDStr	0	0	0																																					
IndustrialParkwayDRdwy	0	0	0																																					
DecotoSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***0***	***0***	***0***	***0***	***0***	***430***	***0***	***0***	***435***	***19,116***
DecotoSidingDSW	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingDRWPrep	0	0	80																											0	1	2	0	0	0	0	0	430	0	0	435	19,116
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	0	0	0	0	0
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***122***	***5,357***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	121	0	0	122	5,357												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
Grading				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***



Offroad Calculations | Location | Onsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalEEMod)										Pounds per day								Metric tons per day					Gal per day	Tons per year								Metric tons per year				Gal per Year
															ROG	NOX	CO	PM10	PM25	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	FM10	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	
HaywardSidingBOA	Site Work	2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3	811
HaywardSidingBOA	Site Work	2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	5.0	483
HaywardSidingBOA	Site Work	2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	9.6	932
HaywardSidingBOA	Site Work	2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	415
HaywardSidingBOA	Site Work	2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	12.9	1,257
HaywardSidingBOA	Site Work	2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.2	1.2	1.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	36
HaywardSidingBOASW2024	SW	2024												2024 Site Work																																				
HaywardSidingBOA	Utilities	2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	99
HaywardSidingBOA	Utilities	2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
HaywardSidingBOAUtil2024	Util	2024												2024 Utilities																																				
HaywardSidingBOA	Rail Work (Prep)	2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	326
HaywardSidingBOA	Rail Work (Prep)	2024	Rewelator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	46	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.7	456
HaywardSidingBOA	Rail Work (Prep)	2024	Speedswine	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	208
HaywardSidingBOA	Rail Work (Prep)	2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.6	4.5	5.4	0.2	0.1			0.0	0.3	0.0	0.0	0.3	30	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	5.4	120
HaywardSidingBOA	Rail Work (Prep)	2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	2.1	1.4	0.1	0.1			0.0	0.3	0.0	0.0	0.2	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.9	279
HaywardSidingBOA	Rail Work (Prep)	2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	132
HaywardSidingBOARWPrep2024	RWPrep	2024												2024 Rail Work (Prep)																																				
HaywardSidingBOA	Rail Work (Production)	2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	45
HaywardSidingBOA	Rail Work (Production)	2024	Tie Inserter/Ren	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	1.2	0.0	0.0	1.2	122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	122
HaywardSidingBOA	Rail Work (Production)	2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	0.8	0.0	0.0	0.8	79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	79
HaywardSidingBOA	Rail Work (Production)	2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	10
HaywardSidingBOA	Rail Work (Production)	2024	Spiker	4	7	3	3	Other Construction Equipment	100	100	0.4	Diesel	61	2024Other Construction Equipme	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.9	8.4	9.2	0.5	0.5			0.0	0.6	0.0	0.0	0.6	61	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	1.9	183
HaywardSidingBOA	Rail Work (Production)	2024	Anchor Spreade	4	7	3	3	Anchor Spreaders	75	75	0.4	Diesel	45	2024Anchor Spreaders	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.4	135
HaywardSidingBOARWProduction2024	RWProduction	2024												2024 Rail Work (Production)																																				
HaywardSidingBOA	Structures	2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	132
HaywardSidingBOA	Structures	2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	207
HaywardSidingBOA	Structures	2024	Wheel Loader	1	6	5	5	Rubber Tired Loaders	300	250	0.4	Diesel	22	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	1.7	1.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	111
HaywardSidingBOA	Structures	2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.1	0.5	0.5	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	15
HaywardSidingBOA	Structures	2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.3	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	27
HaywardSidingBOA	Structures	2024	Rough Terrain F	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.9	0.6	0.1	0.1			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	46
HaywardSidingBOASkr2024	Skr	2024												2024 Structures																																				
HaywardSidingBO	Site Work	2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3	811
HaywardSidingBO	Site Work	2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	5.0	483
HaywardSidingBO	Site Work	2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	9.6	932
HaywardSidingBO	Site Work	2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	415
HaywardSidingBO	Site Work	2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	12.9	1,257
HaywardSidingBO	Site Work	2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.2	1.2	1.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	36
HaywardSidingBOSW2024	SW	2024												2024 Site Work																																				
HaywardSidingBO	Utilities	2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	99
HaywardSidingBO	Utilities	2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
HaywardSidingBOAUtil2024	Util	2024												2024 Utilities																																				
HaywardSidingBOA	Structures	2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	132
HaywardSidingBOA	Structures	2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	207
HaywardSidingBOA	Structures	2024	Wheel Loader	1	6	5	5	Rubber Tired Loaders	300	250	0.4	Diesel	22	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	1.7	1.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	111
HaywardSidingBOA	Structures	2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.1	0.5	0.5	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	15
HaywardSidingBOA	Structures	2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.3	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	27
HaywardSidingBOA	Structures	2024	Rough Terrain F	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.9	0.6	0.1	0.1			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	46
HaywardSidingBOASkr2024	Skr	2024												2024 Structures																																				
HaywardSidingC1	Site Work	2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3	811
HaywardSidingC1	Site Work	2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	5.0	483
HaywardSidingC1	Site Work	2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	9.6	932
HaywardSidingC1	Site Work	2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	415
HaywardSidingC1	Site Work	2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	12.9	1,257
HaywardSidingC1	Site Work	2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.2	1.2	1.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	36
HaywardSidingC1SW2024	SW	2024												2024 Site Work																																				
HaywardSidingC1	Utilities	2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	99
HaywardSidingC1	Utilities	2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
HaywardSidingC1Util2024	Util	2024												2024 Utilities																																				
HaywardSidingC1	Rail Work (Prep)	2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	326
HaywardSidingC1	Rail Work (Prep)	2024	Rewelator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	46	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.7	456
HaywardSidingC1	Rail Work (Prep)	2024	Speedswine	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1		

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Employee Onroad Calculations Location Onsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle	g/mi (EMFAC_AP 42)										Process g/trip (EMFAC)										Pounds per day										Metric tons per day					Gal per day
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	HaywardSidingBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingBOA	HaywardSidingBOAUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingBOA	HaywardSidingBOARWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingBOA	HaywardSidingBOARWProduction2(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingBOA	HaywardSidingBOASti2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingBO	HaywardSidingBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingBO	HaywardSidingBOUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingBO	HaywardSidingBORWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingBO	HaywardSidingBORWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingBO	HaywardSidingBOSti2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingC1	HaywardSidingC1SW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingC1	HaywardSidingC1Uti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingC1	HaywardSidingC1RWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingC1	HaywardSidingC1RWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingC1	HaywardSidingC1Sti2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingD	HaywardSidingDSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingD	HaywardSidingDUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingD	HaywardSidingDRWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingD	HaywardSidingDRWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingD	HaywardSidingDSti2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBOA	IndustrialParkwayBOAUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWProduction2(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOASti2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWProductio	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARdway2025	2025 Roadway Wo	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayBOA	IndustrialParkwayBOASti2025	2025 Structures	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayBOA	IndustrialParkwayBOASW2026	2026 Site Work	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOAUti2026	2026 Utilities	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2026	2026 Rail Work (Pr	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.1	0.1	0.6	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	8
IndustrialParkwayBOA	IndustrialParkwayBOARWProductio	2026 Rail Work (Pr	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	24	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.2	0.2	1.9	0.0	0.0	1.7	0.4	0.0	0	0.0	0.0	0	24
IndustrialParkwayBOA	IndustrialParkwayBOARdway2026	2026 Roadway Wo	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOASti2026	2026 Structures	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
IndustrialParkwayBO	IndustrialParkwayBOUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWProduction	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBORdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayBO	IndustrialParkwayBOSti2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.4	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0	25
IndustrialParkwayBO	IndustrialParkwayBOUti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBORWProductio	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBORdway2025	2025 Roadway Wo	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayBO	IndustrialParkwayBOSti2025	2025 Structures	2025	SFBAAB	2025SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2026	2026 Site Work	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBOUti2026	2026 Utilities	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBORWPrep2026	2026 Rail Work (Pr	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.1	0.1	0.6	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	8
IndustrialParkwayBO	IndustrialParkwayBORWProductio	2026 Rail Work (Pr	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	30	60	702	Gas	24	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.2	0.2	1.9	0.0	0.0	1.7	0.4	0.0	0	0.0	0.0	0	24
IndustrialParkwayBO	IndustrialParkwayBORdway2026	2026 Roadway Wo	2026	SFBAAB	2026SFBAABLDA-IDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0

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Offsite Onroad Calculations | Location: Offsite

Project	Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT MU/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	80	80	Diesel	2	MHDT-HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	60	60	Gas	2	LDT2
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	60	60	Diesel	3	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	3	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	80	80	Diesel	3	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	22	40	80	80	Diesel	143	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.05	40	80	80	Diesel	0	HHDT
HaywardSlidingBOASW2024	SW	2024										**2024 Site Work**
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOAUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	20	20	Gas	2	LDT2
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	2	17	15	15	Diesel	6	HHDT
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBOARWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABLDT2	Pickup	3	17	1	1	Gas	2	LDT2
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	3	3	Diesel	3	HHDT
HaywardSlidingBOARWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	10	10	Gas	2	LDT2
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	65	65	Diesel	3	HHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOASW2024	SW	2024										**2024 Site Work**
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOAUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	20	Gas	2	LHDT1
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	2	17	15	15	Diesel	6	MHDT
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	MHDT
HaywardSlidingBOARWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	1	1	Gas	2	LHDT1
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	3	3	Diesel	3	MHDT
HaywardSlidingBOARWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	10	10	Diesel	3	MHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOASW2024	Str	2024										**2024 Structures**
HaywardSlidingBOA	Site Work	2024	SFBAAB	2025SFBAABHDT-WaterTruck	Water Truck	1	17	80	80	Diesel	2	MHDT-HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	60	60	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	80	80	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	22	40	80	80	Diesel	143	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.05	40	80	80	Diesel	0	HHDT
HaywardSlidingBOSW2024	SW	2024										**2024 Site Work**
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	20	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	2	17	15	15	Diesel	6	MHDT
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	MHDT
HaywardSlidingBORWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	1	1	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	3	3	Diesel	3	MHDT
HaywardSlidingBORWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	10	10	Diesel	3	MHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOSW2024	Str	2024										**2024 Structures**
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	80	80	Diesel	2	MHDT-HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	60	60	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	80	80	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	22	40	80	80	Diesel	143	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.05	40	80	80	Diesel	0	HHDT
HaywardSlidingBOSW2024	SW	2024										**2024 Site Work**
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	20	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	2	17	15	15	Diesel	6	MHDT
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	MHDT
HaywardSlidingBORWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	1	1	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	3	3	Diesel	3	MHDT
HaywardSlidingBORWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	10	10	Diesel	3	MHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOSW2024	Str	2024										**2024 Structures**
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	200	142	Diesel	2	MHDT-HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	200	142	Gas	2	LDT2
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	150	107	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	21	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	180	128	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	28	40	200	142	Diesel	182	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.26	40	200	142	Diesel	2	HHDT
IndustrialParkwayBOASW2024	SW	2024										**2024 Site Work**
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT-WaterTruck	Water Truck	1	17	200	58	Diesel	2	MHDT-HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABLDT2	Pickup	4	17	200	58	Gas	2	LDT2
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Sweeper	1	17	150	44	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Flat Bed Truck	1	17	10	9	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Fuel Truck	1	17	180	52	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	28	40	200	58	Diesel	179	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	0.26	40	200	58	Diesel	2	HHDT
IndustrialParkwayBOASW2025	SW	2025										**2025 Site Work**
IndustrialParkwayBOA	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	40	28	Diesel	2	LDT2
IndustrialParkwayBOA	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	35	71	Diesel	3	HHDT
IndustrialParkwayBOAUtil2024	Util	2024										**2024 Utilities**
IndustrialParkwayBOA	Utilities	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	4	17	65	17	Diesel	3	HHDT
IndustrialParkwayBOA	Utilities	2025	SFBAAB	2025SFBAABHDT	Boom Truck	1	17	35	9	Diesel	3	HHDT
IndustrialParkwayBOAUtil2025	Util	2025										**2025 Utilities**
IndustrialParkwayBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	0	17	80	0	Gas	0	HHDT
IndustrialParkwayBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	0	17	80	0	Diesel	0	HHDT
IndustrialParkwayBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	0	17	10	0	Diesel	0	HHDT
IndustrialParkwayBOARWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
IndustrialParkwayBOA	Rail Work (Prep)	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	0	17	80	0	Gas	0	LHDT1
IndustrialParkwayBOA	Rail Work (Prep)	2025	SFBAAB	2025SFBAABHDT	Boom Truck	0	17	80	0	Diesel	0	MHDT
IndustrialParkwayBOA	Rail Work (Prep)	2025	SFBAAB	2025SFBAABHDT	Flat Bed Truck	0	17	10	0	Diesel	0	MHDT
IndustrialParkwayBOARWPrep2025	RWPrep	2025										**2025 Rail Work (Prep)**
IndustrialParkwayBOA	Rail Work (Prep)	2026	SFBAAB	2026SFBAABHDT-RWTruck	Bobcat	6	17	80	80	Gas	3	LHDT1
IndustrialParkwayBOA	Rail Work (Prep)	2026	SFBAAB	2026SFBAABHDT	Boom Truck	2	17	80	80	Diesel	5	MHDT
IndustrialParkwayBOA	Rail Work (Prep)	2026	SFBAAB	2026SFBAABHDT	Flat Bed Truck	1	17	95	95	Diesel	3	MHDT
IndustrialParkwayBOARWPrep2026	RWPrep	2026										**2026 Rail Work (Prep)**
IndustrialParkwayBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABLDT2	Boom Truck	3	17	2	0	Gas	2	LDT2
IndustrialParkwayBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	0	Diesel	3	HHDT
IndustrialParkwayBOARWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
IndustrialParkwayBOA	Rail Work (Production)	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	3	17	2	0	Gas	2	LHDT1
IndustrialParkwayBOA	Rail Work (Production)	2025	SFBAAB	2025SFBAABHDT	Boom Truck	1	17	2	0	Diesel	3	MHDT
IndustrialParkwayBOARWProduction2025	RWProduction	2025										**2025 Rail Work (Production)**
IndustrialParkwayBOA	Rail Work (Production)	2026	SFBAAB	2026SFBAABHDT-RWTruck	Bobcat	3	17	2	2	Gas	2	LHDT1
IndustrialParkwayBOA	Rail Work (Production)	2026	SFBAAB	2026SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	MHDT
IndustrialParkwayBOARWProduction2026	RWProduction	2026										**2026 Rail Work (Production)**
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT-RWTruck	Water Truck	1	17	4	5	Diesel	1	HHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	14	Gas	2	LHDT1
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	4	3	Diesel	3	MHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	4	3	Diesel	3	MHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	1	17	4	3	Diesel	3	HHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Asphalt Truck	4	17	4	3	Diesel	11	HHDT
IndustrialParkwayBOARoadway2024	Roadway	2024										**2024 Roadway Work**
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT-RWTruck	Water Truck	1	17	4	3	Diesel	1	HHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	4	17	20	6	Gas	2	LHDT1
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Sweeper	1	17	4	1	Diesel	3	MHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Boom Truck	1	17	4	1	Diesel	3	HHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	1	17	4	1	Diesel	3	HHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Asphalt Truck	4	17	4	1	Diesel	11	HHDT
IndustrialParkwayBOARoadway2025	Rdwy	2025										**2025 Roadway Work**
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	335	61	Diesel	1	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	5	17	300	57	Gas	3	LHDT1
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	320	61	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	2	17	300	57	Diesel	6	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	350	48	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Concrete Truck	1	17	80	15	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Concrete Truck	10	17	80	15	Diesel	28	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Bulk Cement Truck (for LCCF)	3	17	230	44	Diesel	8	HHDT
IndustrialParkwayBOASW2024	Str	2024										**2024 Structures**
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT-WaterTruck	Water Truck	1	17	320	259	Diesel	1	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABLDT2	Pickup	5	17	300	243	Gas	3	LDT2
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Sweeper	1	17	335	906	Diesel	3	MHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Boom Truck	2	17	300	243	Diesel	5	MHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	2	17	300	243	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Concrete Pump Truck	1	17	80	65	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Concrete Truck	10	17	80	65	Diesel	28	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Bulk Cement Truck (for LCCF)	3	17	230	186	Diesel	8	HHDT
IndustrialParkwayBOASW2025	Str	2025										**2025 Structures**
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	200	142	Diesel	2	MHDT-HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT-Bobcat	Bobcat	4	17	390	143	Gas	3	LHDT1
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	150	107	Diesel	3	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	30	21	Diesel	3	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	180	128	Diesel	3	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	28	40	200	142	Diesel	182	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.26	40	200	142	Diesel	2	HHDT
IndustrialParkwayBOSW2024	SW	2024										**2024 Site Work**

Project	Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT MU/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle

g/mi (EMFAC AP 42)

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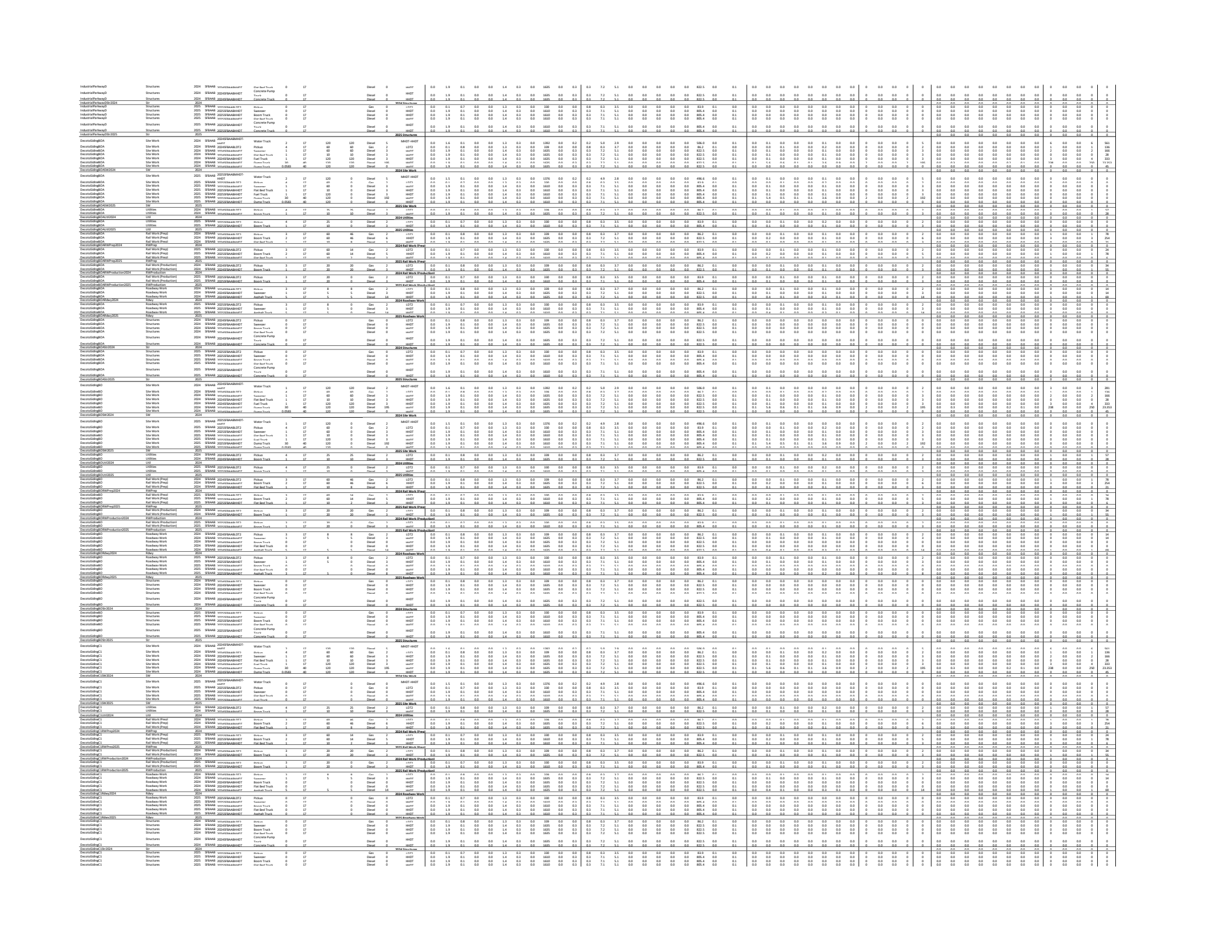

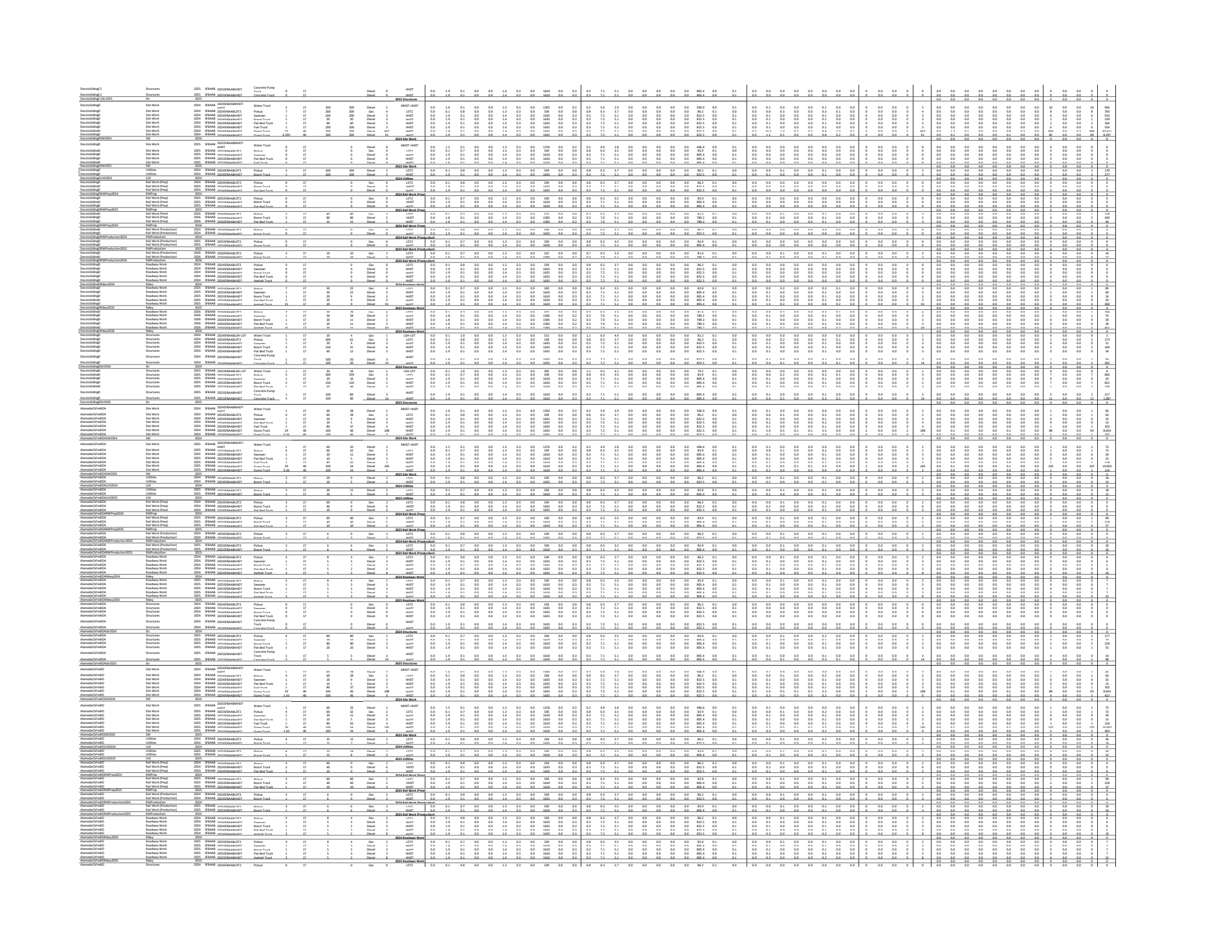

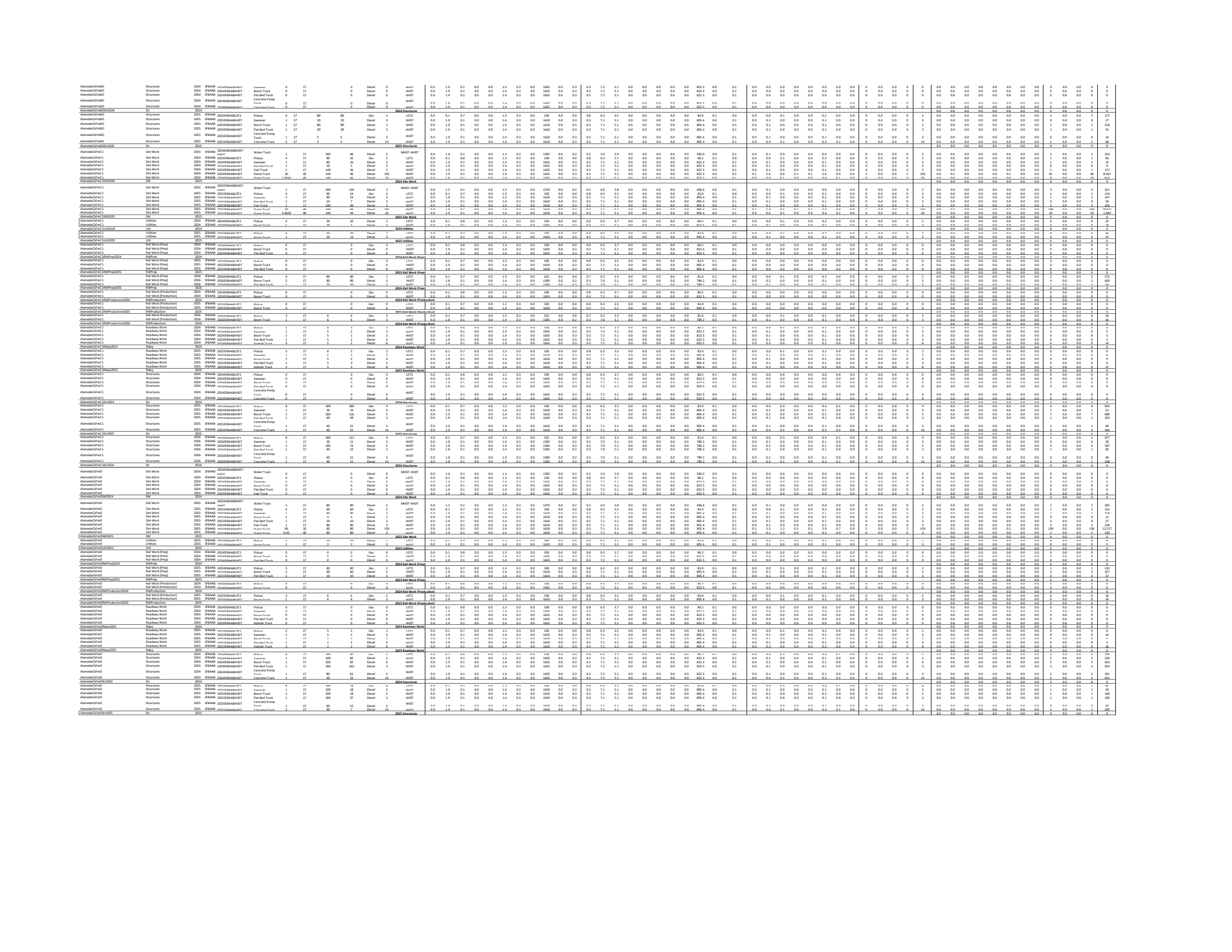

Locomotive Calculations | Location | Offsite and OnSite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingBOARWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingBORWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingC1RWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	3	3	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	479
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	2	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	1,720
HaywardSidingDRWPrep2024	RWPrep2024												8.6	102.4	187.5	1.5	1.5	0.0	0.0	0.5	23.0	0.0	0.0	23.2	1,020	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	2,199
IndustrialParkwayBOA	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	3	12	12	4400	0.2	Diesel	120	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.7	1,438
IndustrialParkwayBOA	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	15	15	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.6	1.2	0.0	0.0	0.0	0.0	0.0	290.3	0.0	0.0	293.2	12,899
IndustrialParkwayBOA	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
IndustrialParkwayBOARWPrep2026	RWPrep2026												15.6	184.8	338.2	2.8	2.7	0.0	0.0	0.9	41.4	0.0	0.0	41.8	1,840	0.1	1.2	2.1	0.0	0.0	0.0	0.0	0.0	516.3	0.0	0.0	521.4	22,936
IndustrialParkwayBO	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	3	12	12	4400	0.2	Diesel	120	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.7	1,438
IndustrialParkwayBO	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	15	15	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.6	1.2	0.0	0.0	0.0	0.0	0.0	290.3	0.0	0.0	293.2	12,899
IndustrialParkwayBO	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
IndustrialParkwayBORWPrep2026	RWPrep2026												15.6	184.8	338.2	2.8	2.7	0.0	0.0	0.9	41.4	0.0	0.0	41.8	1,840	0.1	1.2	2.1	0.0	0.0	0.0	0.0	0.0	516.3	0.0	0.0	521.4	22,936
IndustrialParkwayC1	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	3	12	12	4400	0.2	Diesel	120	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.7	1,438
IndustrialParkwayC1	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	15	15	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.6	1.2	0.0	0.0	0.0	0.0	0.0	290.3	0.0	0.0	293.2	12,899
IndustrialParkwayC1	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
IndustrialParkwayC1RWPrep2026	RWPrep2026												15.6	184.8	338.2	2.8	2.7	0.0	0.0	0.9	41.4	0.0	0.0	41.8	1,840	0.1	1.2	2.1	0.0	0.0	0.0	0.0	0.0	516.3	0.0	0.0	521.4	22,936
IndustrialParkwayD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	0	3	0		4400	0.2	Diesel	0	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
IndustrialParkwayD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	0	10	0		4400	0.4	Diesel	0	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
IndustrialParkwayD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	0	10	0		4400	0.4	Diesel	0	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
IndustrialParkwayDRWPrep2025	RWPrep2025												0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	8	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	975
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	5	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	3,934
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	10	8	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	6,557
DecotoSidingBOARWPrep2024	RWPrep2024												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	11,466
DecotoSidingBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	8	2	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	304
DecotoSidingBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	6	1	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	27.9	1,225
DecotoSidingBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	2,042
DecotoSidingBOARWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	3,571
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	8	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	975
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	5	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	3,934
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	10	8	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	6,557
DecotoSidingBORWPrep2024	RWPrep2024												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	11,466
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	8	2	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	304
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	6	1	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	27.9	1,225
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	2,042
DecotoSidingBORWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	3,571
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	4	8	6	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	975
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	6	5	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	3,934
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	4	2	10	10	8	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.3	0.6	0.0	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	6,557
DecotoSidingC1RWPrep2024	RWPrep2024												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	11,466
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	8	2	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	304
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	6	1	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	27.6	0.0	0.0	27.9	1,225
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	2	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	2,042
DecotoSidingC1RWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	3,571
DecotoSidingD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	4	12	0	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	4	2	10	10	0	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingDRWPrep2025	RWPrep2025												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	4	12	12	4400	0.2	Diesel	160	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	1.4	16.1	29.4	0.2	0.2			0.1	3.6	0.0	0.0	3.6	160	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	43.2	0.0	0.0	43.6	1,918
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	4	2	10	10	10	4400	0.4	Diesel	860	0.1	1.0	1.8	0.0	0.0			0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	8,599
DecotoSidingDRWPrep2026	RWPrep2026												15.9	188.8	345.5	2.8	2.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	1,880	0.1	1.0	1.8	0.

Earth Moving Calculations Location Onsite

Code	Days	Grading (acres)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor						Pounds per day								Metric tons per day				Gal per day
					PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA																							
HaywardSidingBOASW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOAUtil	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOARWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBOARWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOAStr	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBO																							
HaywardSidingBOSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOUtil	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBORWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBORWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOStr	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1																							
HaywardSidingC1SW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingC1Util	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1RWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingC1RWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1Str	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingD																							
HaywardSidingDSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingDUtil	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDRWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingDRWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDStr	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOA																							
IndustrialParkwayBOASW	200	0.75	55,706	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOAUtil	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOARWPrep	80	0	20,150	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
IndustrialParkwayBOARWProducti	2	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOAStr	320	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBO																							
IndustrialParkwayBOSW	200	0.75	68,868	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOUtil	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBORWPrep	80	0	20,150	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
IndustrialParkwayBORWProductio	2	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOStr	320	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1																							
IndustrialParkwayC1SW	200	0.75	68,868	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayC1Util	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1RWPrep	80	0	20,150	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
IndustrialParkwayC1RWProductior	2	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1Str	320	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayD																							
IndustrialParkwayDSW	0	0	59,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDUtil	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDRWPrep	0	0	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDRWProduction	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDStr	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOA																							
DecotoSidingBOASW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOAUtil	120	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOARWPrep	80	0	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBOARWProduction	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOAStr	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBO																							
DecotoSidingBOSW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOUtil	120	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBORWPrep	80	0	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBORWProduction	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOStr	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1																							
DecotoSidingC1SW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingC1Util	120	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1RWPrep	80	0	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingC1RWProduction	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1Str	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingD																							
DecotoSidingDSW	200	0.75	179,823	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.7	2.5						
DecotoSidingDUtil	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDRWPrep	80	0	26,100	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingDRWProduction	10	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDStr	61	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOA																							
AlamedaCkFreBOASW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
AlamedaCkFreBOAUtil	100	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOARWPrep	80	0	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOARWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOAStr	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBO																							

AlamedaCkFreBOSW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4			4.6	2.5		
AlamedaCkFreBOUtil	100	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreBORWPrep	80	0	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreBORWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreBOStr	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreC1																
AlamedaCkFreC1SW	140	0.75	49,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4			4.6	2.5		
AlamedaCkFreC1RWPrep	80	0	17,250	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.1	0.0		
AlamedaCkFreC1RWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreC1Str	360	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreD																
AlamedaCkFreDSW	80	0.75	77,975	6	1.1	0.1145	0.0002	0.0000	0.8	0.4			4.8	2.5		
AlamedaCkFreDRWPrep	80	0	9,725	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreDRWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreDStr	300	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		

Paving Calculations Location Onsite

Code	Days	Paved (sf)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
IndustrialParkwayBOA			2.6													
IndustrialParkwayBOASW	200	43,560	2.6	0.0												
IndustrialParkwayBOARW			2.6													
IndustrialParkwayBOAStr			2.6													
IndustrialParkwayBO			2.6													
IndustrialParkwayBOSW	200	243,936	2.6	0.1												
IndustrialParkwayBORW			2.6													
IndustrialParkwayBOStr			2.6													
IndustrialParkwayC1			2.6													
IndustrialParkwayC1SW	200	243,936	2.6	0.1												
IndustrialParkwayC1RW			2.6													
IndustrialParkwayC1Str			2.6													
IndustrialParkwayD			2.6													
IndustrialParkwayDSW	0	243,936	2.6													
IndustrialParkwayDRW			2.6													
IndustrialParkwayDStr			2.6													
DecotoSidingBOA			2.6													
DecotoSidingBOASW	120	8,712	2.6	0.0												
DecotoSidingBOARW			2.6													
DecotoSidingBOAStr			2.6													
DecotoSidingBO			2.6													
DecotoSidingBOSW	120	8,712	2.6	0.0												
DecotoSidingBORW			2.6													
DecotoSidingBOStr			2.6													
DecotoSidingC1			2.6													
DecotoSidingC1SW	120	8,712	2.6	0.0												
DecotoSidingC1RW			2.6													
DecotoSidingC1Str			2.6													
AlamedaCkFreBOA			2.6													
DecotoSidingD			2.6													
DecotoSidingDSW	200	365,904	2.6	0.1												
DecotoSidingDRW			2.6													
DecotoSidingDStr			2.6													
AlamedaCkFreBOA			2.6													
AlamedaCkFreBOASW	100	27,007	2.6	0.0												
AlamedaCkFreBOARW			2.6													
AlamedaCkFreBOAStr			2.6													
AlamedaCkFreBO			2.6													
AlamedaCkFreBOSW	100	27,007	2.6	0.0												
AlamedaCkFreBORW			2.6													
AlamedaCkFreBOStr			2.6													
AlamedaCkFreC1			2.6													
AlamedaCkFreC1SW	140	87,120	2.6	0.0												
AlamedaCkFreC1RW			2.6													
AlamedaCkFreC1Str			2.6													
AlamedaCkFreD			2.6													
AlamedaCkFreDSW	80	21,780	2.6	0.0												
AlamedaCkFreDRW			2.6													
AlamedaCkFreDStr			2.6													

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA			0.023	0.003													
HaywardSidingBOASW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBOARW			0.023	0.003													
HaywardSidingBOAStr			0.023	0.003													
HaywardSidingBO			0.023	0.003													
HaywardSidingBOSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBORW			0.023	0.003													
HaywardSidingBOStr			0.023	0.003													
HaywardSidingC1			0.023	0.003													
HaywardSidingC1SW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingC1RW			0.023	0.003													
HaywardSidingC1Str			0.023	0.003													
HaywardSidingD			0.023	0.003													
HaywardSidingDSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingDRW			0.023	0.003													
HaywardSidingDStr			0.023	0.003													
IndustrialParkwayBOA			0.023	0.003													
IndustrialParkwayBOAS	200	924	0.023	0.003						0.1	0.0						
IndustrialParkwayBOARW			0.023	0.003													
IndustrialParkwayBOAStr			0.023	0.003													
IndustrialParkwayBO			0.023	0.003													
IndustrialParkwayBOSW	200	924	0.023	0.003						0.1	0.0						
IndustrialParkwayBORW			0.023	0.003													
IndustrialParkwayBOStr			0.023	0.003													
IndustrialParkwayC1			0.023	0.003													
IndustrialParkwayC1SW	200	924	0.023	0.003						0.1	0.0						
IndustrialParkwayC1RW			0.023	0.003													
IndustrialParkwayC1Str			0.023	0.003													
IndustrialParkwayD			0.023	0.003													
IndustrialParkwayDSW	0	861	0.023	0.003						-	-						
IndustrialParkwayDRW			0.023	0.003													
IndustrialParkwayDStr			0.023	0.003													
DecotoSidingBOA			0.023	0.003													
DecotoSidingBOASW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBOARW			0.023	0.003													
DecotoSidingBOAStr			0.023	0.003													
DecotoSidingBO			0.023	0.003													
DecotoSidingBOSW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBORW			0.023	0.003													
DecotoSidingBOStr			0.023	0.003													
DecotoSidingC1			0.023	0.003													
DecotoSidingC1SW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingC1RW			0.023	0.003													
DecotoSidingC1Str			0.023	0.003													
DecotoSidingD			0.023	0.003													
DecotoSidingDSW	200	22,629	0.023	0.003						2.6	0.4						
DecotoSidingDRW			0.023	0.003													
DecotoSidingDStr			0.023	0.003													
AlamedaCkFreBOA			0.023	0.003													
AlamedaCkFreBOASW	100	632	0.023	0.003						0.1	0.0						
AlamedaCkFreBOARW			0.023	0.003													
AlamedaCkFreBOAStr			0.023	0.003													
AlamedaCkFreBO			0.023	0.003													
AlamedaCkFreBOSW	100	2,528	0.023	0.003						0.6	0.1						
AlamedaCkFreBORW			0.023	0.003													

AlamedaCkFreBOStr			0.023	0.003					
AlamedaCkFreC1			0.023	0.003					
AlamedaCkFreC1SW	140	7,585	0.023	0.003		1.2	0.2		
AlamedaCkFreC1RW			0.023	0.003					
AlamedaCkFreC1Str			0.023	0.003					
AlamedaCkFreD			0.023	0.003					
AlamedaCkFreDSW	80	632	0.023	0.003		0.2	0.0		
AlamedaCkFreDRW			0.023	0.003					
AlamedaCkFreDStr			0.023	0.003					

Alternative E – Unmitigated Emissions Calculation Sheet

Code	Description	Start Date	Working Days	2027	2028	2029		End Date
Elmhurst-Williams	Elmhurst to Williams St. Crossing							
Elmhurst-WilliamsSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsRWProduction	Rail Work (Production)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsStr	Structures	4/1/2027	54	54	0	0	-	6/15/2027
Elmhurst-WilliamsRdwy	Roadway Work	5/1/2027	22	22	0	0	-	6/1/2027
Williams-MtEden	Williams St. Crossing to N. Mt Eden Siding						-	
Williams-MtEdenSW	Site Work	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenUtil	Utilities	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenRWPrep	Rail Work (Prep)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenRWProduction	Rail Work (Production)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenStr	Structures	5/15/2027	143	143	0	0	-	12/1/2027
Williams-MtEdenRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
MtEden-Baumberg	N. Mt. Eden Siding to Baumberg Ave.						-	
MtEden-BaumbergSW	Site Work	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergUtil	Utilities	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergRWPrep	Rail Work (Prep)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergRWProduction	Rail Work (Production)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergStr	Structures	12/1/2027	131	23	108	0	-	6/1/2028
MtEden-BaumbergRdwy	Roadway Work	5/1/2028	22	0	22	0	-	6/1/2028
Baumberg-Alvarado	Baumberg Ave. Crossing to Alvarado Blvd Crossing						-	
Baumberg-AlvaradoSW	Site Work	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoUtil	Utilities	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoRWProduction	Rail Work (Production)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoStr	Structures	5/1/2028	153	0	153	0	-	12/1/2028
Baumberg-AlvaradoRdwy	Roadway Work	9/1/2028	44	0	44	0	-	11/1/2028
Alvarado-Lowry	Alvarado Blvd Crossing to Lowry Road OP						-	
Alvarado-LowrySW	Site Work	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryUtil	Utilities	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryRWPrep	Rail Work (Prep)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryRWProduction	Rail Work (Production)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryStr	Structures	9/1/2028	129	0	86	43	-	3/1/2029
Alvarado-LowryRdwy	Roadway Work	4/1/2028	31	0	31	0	-	5/15/2028
Lowry-Ardenwood	Lowry Rd OP to Ardenwood Blvd. OP						-	
Lowry-ArdenwoodSW	Site Work	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodUtil	Utilities	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodRWProduction	Rail Work (Production)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodStr	Structures	12/1/2027	218	23	195	0	-	10/1/2028
Lowry-ArdenwoodRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Ardenwood-Jarvis	Ardenwood Blvd OP to Jarvis Rd.						-	
Ardenwood-JarvisSW	Site Work	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisUtil	Utilities	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisRWPrep	Rail Work (Prep)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisRWProduction	Rail Work (Production)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisStr	Structures	9/1/2027	65	65	0	0	-	12/1/2027
Ardenwood-JarvisSta	Station	2/1/2028	261	0	239	22	-	2/1/2029
Ardenwood-JarvisRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Jarvis-Thornton	Jarvis Rd. to Thornton Ave.						-	
Jarvis-ThorntonSW	Site Work	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonUtil	Utilities	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonRWPrep	Rail Work (Prep)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonRWProduction	Rail Work (Production)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonStr	Structures	6/1/2027	87	87	0	0	-	10/1/2027
Jarvis-ThorntonRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
Thornton-Newark	Thornton Ave. to S. Newark Yard						-	
Thornton-NewarkSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkRWPrep	Rail Work (Prep)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkRWProduction	Rail Work (Production)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkStr	Structures	4/1/2027	44	44	0	0	-	6/1/2027
Thornton-NewarkRdwy	Roadway Work	7/1/2027	22	22	0	0	-	8/1/2027

Code	Working Days			2027												2028												2029											
				Tons per year							Metric tons per year				Gal/yr	Tons per year								Metric tons per year				Gal/year	Tons per year								Metric tons per year				Gal/yr
	2027	2028	2029	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	COZe	Fuel
Alternative E				**1**	**20**	**11**	**0**	**0**	**2**	**1**	**0**	**3,498**	**0**	**0**	**3,557**	**344,711**	**2**	**25**	**13**	**1**	**1**	**2**	**1**	**0**	**3,969**	**0**	**0**	**4,033**	**391,765**	**0**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**666**	**0**	**0**	**675**	**65,362**
Off-Road				**1**	**5**	**4**	**0**	**0**	**0**	**0**	**0**	**1054**	**0**	**0**	**1057**	**103,187**	**1**	**5**	**4**	**0**	**0**	**0**	**0**	**0**	**1009**	**0**	**0**	**1013**	**98,849**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**136**	**0**	**0**	**137**	**13,360**
Elmhurst-Williams				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***212***	***0***	***0***	***213***	***20,774***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	50	0	0	50	4,857																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	10	0	0	10	1,000																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	43	0	0	43	4,175																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	57	0	0	57	5,564																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	15	0	0	15	1,469																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	38	0	0	38	3,710																									
Williams-MtEden				***0***	***2***	***2***	***0***	***0***	***0***	***0***	***0***	***440***	***0***	***0***	***442***	***43,135***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***9,722***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	0	0	0	0	0	0	90	0	0	90	8,828	0	0	0	0	0	0	0	0	1	0	0	1	68												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	17	0	0	17	1,631	0	0	0	0	0	0	0	0	0	0	0	0	13												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	26	0	0	26	2,545	0	0	0	0	0	0	0	0	37	0	0	37	3,596												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	44	0	0	44	4,279	0	1	0	0	0	0	0	0	62	0	0	62	6,046												
Williams-MtEdenStr	143	-	-	0	0	0	0	0	0	0	0	131	0	0	132	12,867																									
Williams-MtEdenRdwy	44	-	-	0	0	1	0	0	0	0	0	133	0	0	133	12,984																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***920***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***206***	***0***	***0***	***206***	***20,145***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	41	0	0	41	3,991												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	10	0	0	10	1,013												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	35	0	0	35	3,421												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	56	0	0	56	5,441												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	9	0	0	9	920	0	0	0	0	0	0	0	0	44	0	0	44	4,310												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	20	0	0	20	1,969												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***240***	***0***	***0***	***241***	***23,529***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***63***	***0***	***0***	***64***	***6,219***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	38	0	0	38	3,675	0	0	0	0	0	0	0	0	10	0	0	10	995
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	8	0	0	8	755	0	0	0	0	0	0	0	0	2	0	0	2	204
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	20	0	0	20	1,932	0	0	0	0	0	0	0	0	20	0	0	20	1,919
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	32	0	0	32	3,122	0	0	0	0	0	0	0	0	32	0	0	32	3,101
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	77	0	0	77	7,554												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	66	0	0	67	6,492												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***116***	***0***	***0***	***116***	***11,323***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***59***	***0***	***0***	***59***	***5,765***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	24	0	0	24	2,342	0	0	0	0	0	0	0	0	13	0	0	13	1,250
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	3	0	0	3	292	0	0	0	0	0	0	0	0	1	0	0	1	103
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	16	0	0	16	1,593	0	0	0	0	0	0	0	0	10	0	0	10	969
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	5	0	0	5	455	0	0	0	0	0	0	0	0	13	0	0	13	1,268
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	44	0	0	44	4,322	0	0	0	0	0	0	0	0	22	0	0	22	2,175
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	24	0	0	24	2,319												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***835***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***178***	***0***	***0***	***179***	***17,437***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	46	0	0	47	4,550												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	573												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	22	0	0	22	2,116												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	32	0	0	32	3,123												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	9	0	0	9	835	0	0	0	0	0	0	0	0	72	0	0	72	7,076												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***3,998***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***170***	***0***	***0***	***171***	***16,693***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***1,376***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	10	0	0	10	1,006	0	0	0	0	0	0	0	0	5	0	0	5	463												
Ardenwood-JarvisUtil	45	21	-	0	0	0	0	0	0	0	0	2	0	0	2	223	0	0	0	0	0	0	0	0	1	0	0	1	103												
Ardenwood-JarvisRWPrep	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	365	0	0	0	0	0	0	0	0	7	0	0	7	667												
Ardenwood-JarvisRWProduction	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	436	0	0	0	0	0	0	0	0	8	0	0	8	796												
Ardenwood-JarvisStr	65	-	-	0	0	0	0	0	0	0	0	20	0	0	20	1,968																									
Ardenwood-JarvisSta	-	239	22														0	1	1	0	0	0	0	0	150	0	0	150	14,664	0	0	0	0	0	0	0	0	14	0	0	14	1,376
Ardenwood-JarvisRdwy	-	-	-																																						
Jarvis-Thornton				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***156***	***0***	***0***	***157***	***15,308***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Jarvis-ThorntonSW	66	-	-	0	0	0	0	0	0	0	0	24	0	0	24	2,321																									
Jarvis-ThorntonUtil	66	-	-	0	0	0	0	0	0	0	0	5	0	0	5	513																									
Jarvis-ThorntonRWPrep	65	-	-	0	0	0	0	0	0	0	0	18	0	0	19	1,811																									
Jarvis-ThorntonRWProduction	65	-	-	0	0	0	0	0	0	0	0	28	0	0	28	2,711																									
Jarvis-ThorntonStr	87	-	-	0	0	0	0	0	0	0	0	29	0	0	29	2,852																									
Jarvis-ThorntonRdwy	44	-	-	0	0	0	0	0	0	0	0	52	0	0	52	5,101																									
Thornton-Newark				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***186***	***0***	***0***	***187***	***18,216***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Thornton-NewarkSW	87	-	-	0	0	0	0	0	0	0	0	27	0	0	27	2,639																									
Thornton-NewarkUtil	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	634																									
Thornton-NewarkRWPrep	88	-	-	0	0	0	0	0	0	0	0	26	0	0	26	2,508																									
Thornton-NewarkRWProduction	88	-	-	0	0	0	0	0	0	0	0	21	0	0	21	2,076																									
Thornton-NewarkStr	44	-	-	0	0	0	0	0	0	0	0	6	0	0	6	620																									
Thornton-NewarkRdwy	22	-	-	0	0	0	0	0	0	0	0	99	0	0	100	9,738																									
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**135**	**0**	**0**	**136**	**15,350**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**188**	**0**	**0**	**190**	**21,437**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**9**	**1,030**
Elmhurst-Williams				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***43***	***4,883***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	694																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	3	0	0	3	347																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	7	0	0	7	768																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	19	0	0	20	2,219																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	5	0	0	5	555																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	3	0	0	3	300																									
Williams-MtEden				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***55***	***6,253***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***31***	***0***	***0***	***32***	***3,585***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	0	0	0	0	0	0	9	0	0	9	1,039	0	0	0	0	0	0	0	0	0	0	0	0	8												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	5	0	0	5	520	0	0	0	0	0	0	0	0	0	0	0	0	4												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	6	0	0	6	717	0	0	0	0	0	0	0	0	9	0	0	9	992												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	16	0	0	17	1,864	0	0	0	0	0	0	0	0	23	0	0	23	2,580												
Williams-MtEdenStr	143	-	-	0	0	0	0	0	0	0	0	14	0	0	14	1,593																									
Williams-MtEdenRdwy	44	-	-	0	0	0	0	0	0	0	0	5	0	0	5	521																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***	***0***	***0***	***2***	***257***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***54***	***0***	***0***	***55***	***6,184***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	680												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	340												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	9	0	0	9	1,026												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	23	0	0	24	2,667												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	2	0	0	2	257	0	0	0	0	0	0	0	0	10	0	0	10	1,177												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	3	0	0	3	294												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***56***	***6,289***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***20***	***0***	***0***	***20***	***2,309***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	12	0	0	12	1,343	0	0	0	0	0	0	0	0	3	0	0	3	356
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	3	0	0	3	336	0	0	0	0	0	0	0	0	1	0	0	1	89
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	3	0	0	3	336	0	0	0	0	0	0	0	0	3	0	0	3	327
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	14	0	0	14	1,578	0	0	0	0	0	0	0	0	13	0	0	14	1,537
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	15	0	0	15	1,670												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	9	0	0	9	1,020												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***4,185***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***29***	***0***	***0***	***29***	***3,293***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	9	0	0	9	1,015	0	0	0	0	0	0	0	0	3	0	0	3	350
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	2	0	0	2	254	0	0	0	0	0	0	0	0	1	0	0	1	87
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	1	0	0	1	164	0	0	0	0	0	0	0	0	4	0	0	4	408
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	7	0	0	7	770	0	0	0	0	0	0	0	0	17	0	0	17	1,917
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	9	0	0	10	1,074	0	0	0	0	0	0	0	0	5	0	0	5	530
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	8	0	0	8	908												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***4***	***0***	***0***	***4***	***403***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***70***	***0***	***0***	***71***	***7,971***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	12	0	0	12	1,360												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	340												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	5	0	0	5	513												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	21	0	0	21	2,411												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	4	0	0	4	403	0	0	0	0	0	0	0	0	29	0	0	30	3,346												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***23***	***0***	***0***	***24***	***2,665***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***118***	***0***	***0***	***119***	***13,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***1,030***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	6	0	0	6	717	0	0	0	0	0	0	0	0	3	0	0	3	323												

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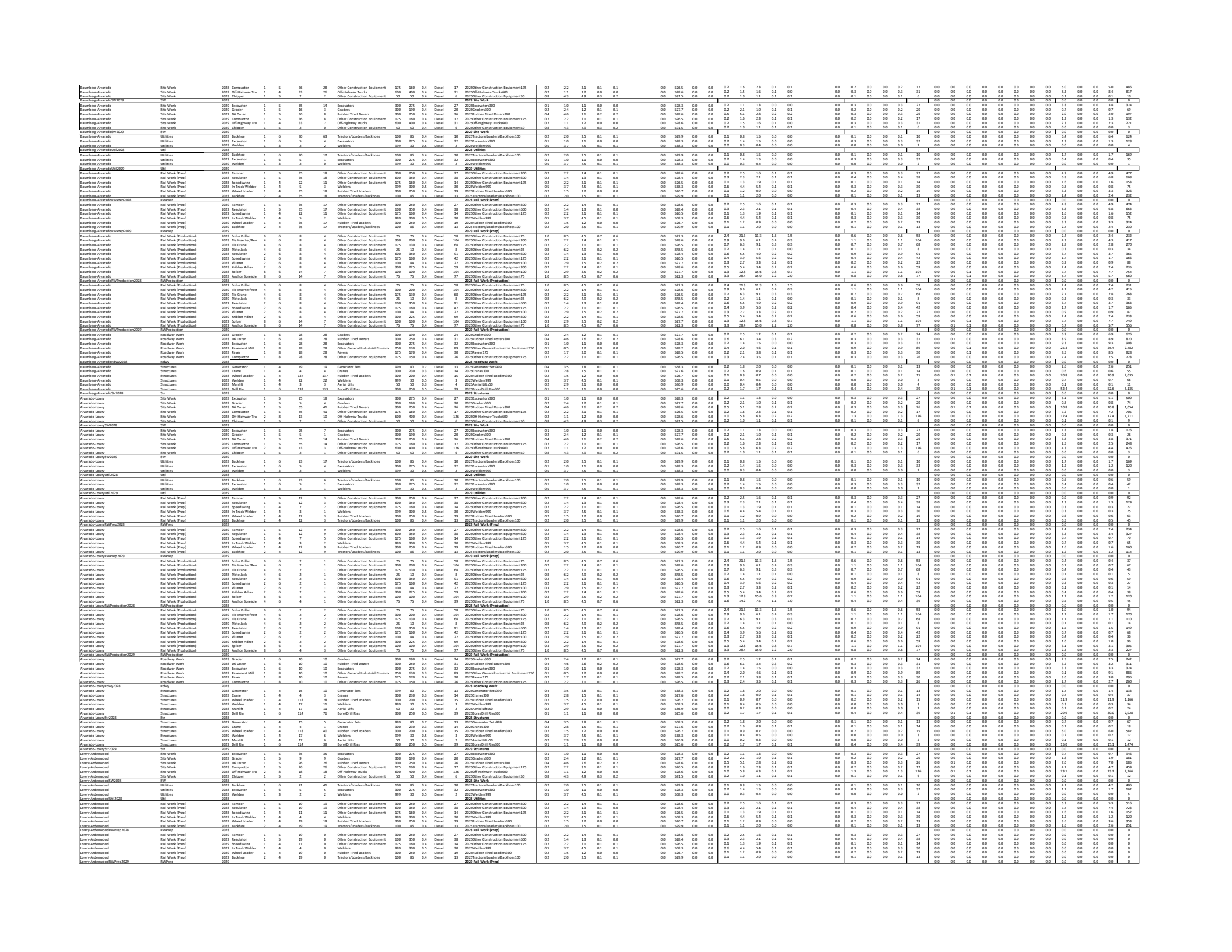
Offroad Calculations | Location | Onsite

| Project | Activity | Year | Equip | #/day | Site hrs/day | Equipment Days | Year Adjustment Factor | CMOD Equipment Type | HP Bin | HP | LF | Fuel | Fuel (gal/gal) | Concat | g/hp-hr (CalEEMod) | | | | | | | | | | Pounds per day | | | | | | | | | | Metric tons per day | | | | | | | | | | Gal per day | Tons per year | | | | | | | | | | Metric tons per year | | | | | | | | | | Gal per Year |
|---|---|---



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Employee Onroad Calculations Location Onsite

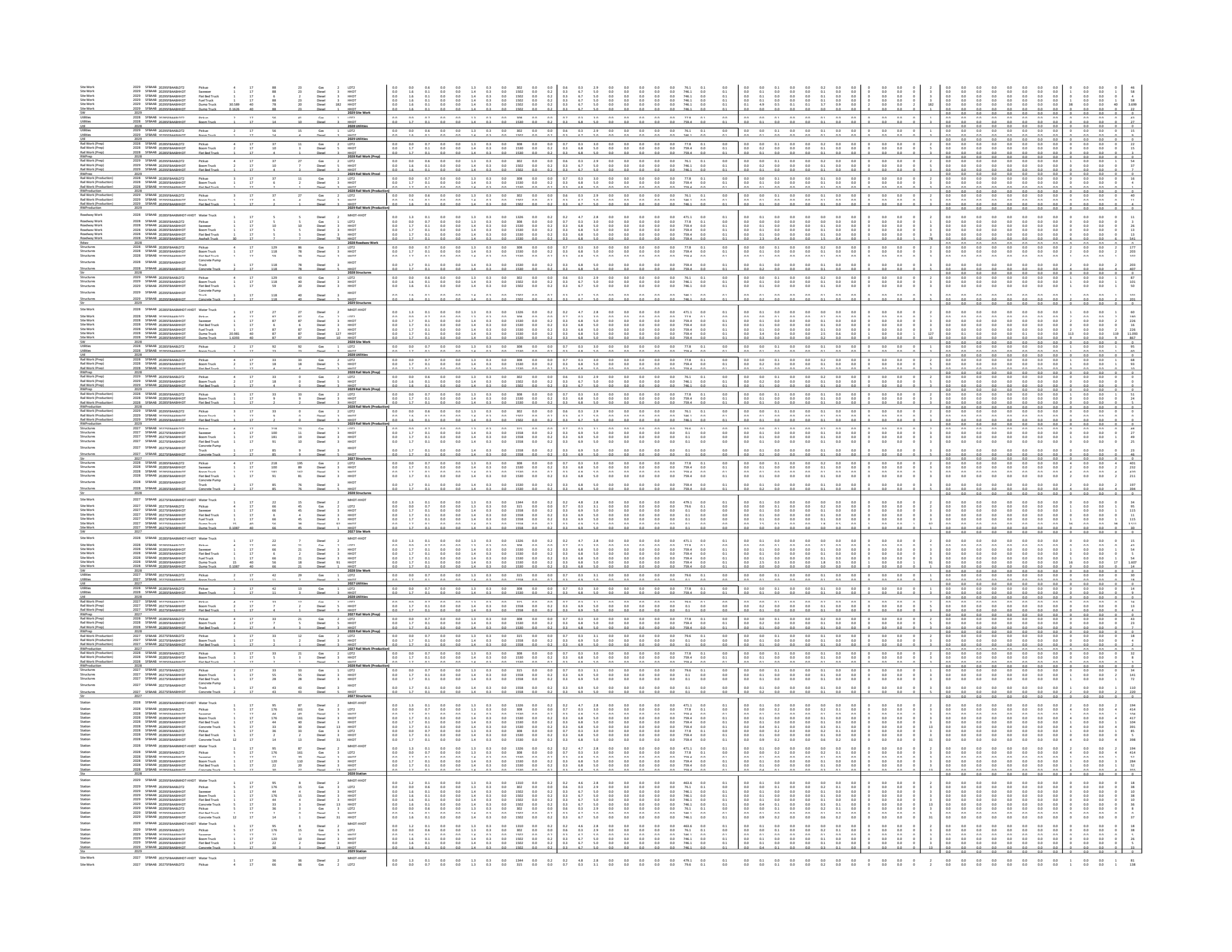
Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle
Elmhurst-Williams	Elmhurst-WilliamsSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	10	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	10	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	10	LDA-LDT
Williams-MtEden	Williams-MtEdenSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Williams-MtEden	Williams-MtEdenUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Williams-MtEden	Williams-MtEdenRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	40	468	Gas	16	LDA-LDT
Williams-MtEden	Williams-MtEdenRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Williams-MtEden	Williams-MtEdenRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Williams-MtEden	Williams-MtEdenStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Williams-MtEden	Williams-MtEdenSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Williams-MtEden	Williams-MtEdenUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Williams-MtEden	Williams-MtEdenRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	40	468	Gas	16	LDA-LDT
Williams-MtEden	Williams-MtEdenRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Williams-MtEden	Williams-MtEdenRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Williams-MtEden	Williams-MtEdenStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Williams-MtEden	Williams-MtEdenSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Williams-MtEden	Williams-MtEdenUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Williams-MtEden	Williams-MtEdenRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Williams-MtEden	Williams-MtEdenRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	40	LDA-LDT
Williams-MtEden	Williams-MtEdenRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	11	LDA-LDT
Williams-MtEden	Williams-MtEdenStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	40	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWProduction2	2027 Rail Work (Production2	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	24	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWProduction2	2028 Rail Work (Production2	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	23	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWProduction2	2029 Rail Work (Production2	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	23	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Alvarado-Lowry	Alvarado-LowrySW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Alvarado-Lowry	Alvarado-LowryUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	37	74	866	Gas	29	LDA-LDT
Alvarado-Lowry	Alvarado-LowryStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	16	32	374	Gas	13	LDA-LDT
Alvarado-Lowry	Alvarado-LowrySW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Alvarado-Lowry	Alvarado-LowryUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	37	74	866	Gas	29	LDA-LDT
Alvarado-Lowry	Alvarado-LowryStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	16	32	374	Gas	12	LDA-LDT
Alvarado-Lowry	Alvarado-LowrySW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Alvarado-Lowry	Alvarado-LowryUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	37	74	866	Gas	28	LDA-LDT
Alvarado-Lowry	Alvarado-LowryStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	16	32	374	Gas	12	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	22	44	515	Gas	18	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWProduction20	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	22	44	515	Gas	17	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWProduction20	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	22	44	515	Gas	17	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSta2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	60	120	1,404	Gas	48	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSta2028	2028 Station	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	60	120	1,404	Gas	47	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSta2029	2029 Station	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	60	120	1,404	Gas	46	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	11	LDA-LDT
Thornton-Newark	Thornton-NewarkSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Thornton-Newark	Thornton-NewarkUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Thornton-Newark	Thornton-NewarkRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Thornton-Newark	Thornton-NewarkRWProduction202	2027 Rail Work (Production)	2027	SF

| | | |

Offsite Onroad Calculations | Location | Offsite

Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT MI/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle
Site Work	2027	SFBAAB	2027SFBAABMHDT-HHDT	Water Truck	1	17	67	67	Diesel	2	MHDT-HHDT
Site Work	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	87	87	Gas	2	LDT2
Site Work	2027	SFBAAB	2027SFBAABHHDT	Sweeper	1	17	87	87	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Flatbed/Semi	1	17	8	8	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Fuel Truck	1	17	87	87	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABMHDT	Dump Truck	54.955	40	77	77	Diesel	335	HHDT
Site Work	2027	SFBAAB	2027SFBAABMHDT	Dump Truck	0.4938	40	87	87	Diesel	3	HHDT
SW	2027										2027 Site Work
Utilities	2027	SFBAAB	2027SFBAABLDT2	Pickup	2	17	154	154	Gas	1	LDT2
Utilities	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	39	39	Diesel	3	HHDT
Util	2027										2027 Utilities
Rail Work (Prep)	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	27	27	Gas	2	LDT2
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	2	17	33	33	Diesel	3	HHDT
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	6	6	Diesel	3	HHDT
RWPrep	2027										2027 Rail Work (Prep)
Rail Work (Production)	2027	SFBAAB	2027SFBAABLDT2	Pickup	3	17	27	27	Gas	2	LDT2
Rail Work (Production)	2027	SFBAAB	2027SFBAABMHDT	Boom Truck	1	17	16	16	Diesel	3	HHDT
Rail Work (Production)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	2	2	Diesel	3	HHDT
RWProduction	2027										2027 Rail Work (Production)
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Sweeper	1	17	8	8	Diesel	3	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	8	8	Diesel	3	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Asphalt Truck	5	17	13	13	Diesel	13	HHDT
Rdwy	2027										2027 Roadway Work
Structures	2027	SFBAAB	2027SFBAABLDT2	Pickup	2	17	54	54	Gas	1	LDT2
Structures	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	33	33	Diesel	3	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	17	17	Diesel	3	HHDT
Structures	2027	SFBAAB	2027SFBAABMHDT	Concrete Pump Truck	1	17	15	15	Diesel	3	HHDT
Structures	2027	SFBAAB	2027SFBAABMHDT	Concrete Truck	2	17	15	15	Diesel	5	HHDT
Str	2027										2027 Structures
Site Work	2027	SFBAAB	2027SFBAABMHDT-HHDT	Water Truck	1	17	69	68	Diesel	2	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	131	131	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	131	131	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	6	0	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	131	131	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	45.87	40	121	121	Diesel	276	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.1087	40	131	131	Diesel	3	HHDT
SW	2028										2028 Site Work
Utilities	2027	SFBAAB	2027SFBAABLDT2	Pickup	2	17	142	141	Gas	1	LDT2
Utilities	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	71	70	Diesel	3	HHDT
Util	2027										2027 Utilities
Utilities	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	142	141	Gas	1	LDT2
Utilities	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	71	71	Diesel	3	HHDT
Util	2028										2028 Utilities
Rail Work (Prep)	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	54	23	Gas	2	LDT2
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	2	17	59	24	Diesel	3	HHDT
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2027										2027 Rail Work (Prep)
Rail Work (Prep)	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	54	32	Gas	2	LDT2
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	2	17	59	35	Diesel	3	HHDT
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2028										2028 Rail Work (Prep)
Rail Work (Production)	2027	SFBAAB	2027SFBAABLDT2	Pickup	3	17	54	23	Gas	2	LDT2
Rail Work (Production)	2027	SFBAAB	2027SFBAABMHDT	Boom Truck	1	17	26	11	Diesel	3	HHDT
Rail Work (Production)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2027										2027 Rail Work (Production)
Rail Work (Production)	2028	SFBAAB	2028SFBAABLDT2	Pickup	3	17	54	32	Gas	2	LDT2
Rail Work (Production)	2028	SFBAAB	2028SFBAABMHDT	Boom Truck	1	17	26	15	Diesel	3	HHDT
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2028										2028 Rail Work (Production)
Roadway Work	2027	SFBAAB	2027SFBAABMHDT	Boom Truck	4	17	28	28	Diesel	10	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	3	17	28	28	Diesel	8	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Asphalt Truck	3	17	87	87	Diesel	8	HHDT
Rdwy	2027										2027 Roadway Work
Site Work	2028	SFBAAB	2028SFBAABMHDT-HHDT	Water Truck	1	17	64	64	Diesel	2	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	87	87	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	87	87	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	6	6	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	87	87	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	49.901	40	77	77	Diesel	303	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.082	40	87	87	Diesel	0	HHDT
SW	2028										2028 Site Work
Utilities	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	158	158	Gas	1	LDT2
Utilities	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	40	40	Diesel	3	HHDT
Util	2028										2028 Utilities
Rail Work (Prep)	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	33	33	Gas	2	LDT2
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	2	17	35	35	Diesel	3	HHDT
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	4	4	Diesel	3	HHDT
RWPrep	2028										2028 Rail Work (Prep)
Rail Work (Production)	2028	SFBAAB	2028SFBAABLDT2	Pickup	3	17	15	15	Gas	1	LDT2
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	2	2	Diesel	3	HHDT
RWProduction	2028										2028 Rail Work (Production)
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	11	11	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	11	11	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Asphalt Truck	5	17	20	20	Diesel	13	HHDT
Rdwy	2028										2028 Roadway Work
Structures	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	119	119	Gas	2	LDT2
Structures	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	4	17	60	11	Diesel	10	HHDT
Structures	2027	SFBAAB	2027SFBAABMHDT	Concrete Pump Truck	6	17	119	21	Diesel	15	HHDT
Structures	2027	SFBAAB	2027SFBAABMHDT	Concrete Truck	3	17	119	21	Diesel	8	HHDT
Str	2027										2027 Structures
Structures	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	131	108	Gas	2	LDT2
Structures	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	4	17	119	98	Diesel	10	HHDT
Structures	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	4	17	60	49	Diesel	10	HHDT
Structures	2028	SFBAAB	2028SFBAABMHDT	Concrete Pump Truck	6	17	119	98	Diesel	16	HHDT
Structures	2028	SFBAAB	2028SFBAABMHDT	Concrete Truck	3	17	119	98	Diesel	8	HHDT
Str	2028										2028 Structures
Site Work	2029	SFBAAB	2029SFBAABMHDT-HHDT	Water Truck	1	17	68	53	Diesel	2	MHDT-HHDT
Site Work	2029	SFBAAB	2029SFBAABLDT2	Pickup	4	17	109	86	Gas	2	LDT2
Site Work	2029	SFBAAB	2029SFBAABHHDT	Sweeper	1	17	109	86	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	5	4	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABHHDT	Fuel Truck	1	17	109	86	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABMHDT	Dump Truck	42.427	40	99	78	Diesel	257	HHDT
Site Work	2029	SFBAAB	2029SFBAABMHDT	Dump Truck	0.1307	40	109	86	Diesel	1	HHDT
SW	2029										2029 Site Work
Site Work	2029	SFBAAB	2029SFBAABMHDT-HHDT	Water Truck	1	17	68	14	Diesel	2	MHDT-HHDT
Site Work	2029	SFBAAB	2029SFBAABLDT2	Pickup	4	17	109	23	Gas	2	LDT2
Site Work	2029	SFBAAB	2029SFBAABHHDT	Sweeper	1	17	109	23	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	5	1	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABHHDT	Fuel Truck	1	17	109	23	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABMHDT	Dump Truck	42.427	40	99	21	Diesel	253	HHDT
Site Work	2029	SFBAAB	2029SFBAABMHDT	Dump Truck	0.1307	40	109	75	Diesel	1	HHDT
SW	2029										2029 Site Work
Utilities	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	170	134	Gas	1	LDT2
Utilities	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	43	34	Diesel	3	HHDT
Util	2028										2028 Utilities
Utilities	2029	SFBAAB	2029SFBAABLDT2	Pickup	2	17	170	36	Gas	1	LDT2
Utilities	2029	SFBAAB	2029SFBAABHHDT	Boom Truck	1	17	43	9	Diesel	3	HHDT
Util	2029										2029 Utilities
Rail Work (Prep)	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	43	22	Gas	2	LDT2
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	2	17	36	18	Diesel	3	HHDT
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2028										2028 Rail Work (Prep)
Rail Work (Prep)	2029	SFBAAB	2029SFBAABLDT2	Pickup	4	17	43	21	Gas	2	LDT2
Rail Work (Prep)	2029	SFBAAB	2029SFBAABHHDT	Boom Truck	2	17	36	18	Diesel	3	HHDT
Rail Work (Prep)	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2029										2029 Rail Work (Prep)
Rail Work (Production)	2028	SFBAAB	2028SFBAABLDT2	Pickup	3	17	43	22	Gas	2	LDT2
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	16	8	Diesel	3	HHDT
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2028										2028 Rail Work (Production)
Rail Work (Production)	2029	SFBAAB	2029SFBAABLDT2	Pickup	3	17	43	21	Gas	2	LDT2
Rail Work (Production)	2029	SFBAAB	2029SFBAABHHDT	Boom Truck	1	17	16	8	Diesel	3	HHDT
Rail Work (Production)	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2029										2029 Rail Work (Production)
Roadway Work	2028	SFBAAB	2028SFBAABMHDT	Boom Truck	1	17	14	14	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	78	78	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	14	14	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	14	14	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Asphalt Truck	20	17	9	9	Diesel	52	HHDT
Rdwy	2028										2028 Roadway Work
Structures	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	153	153	Gas	1	LDT2
Structures	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	137	137	Diesel	3	HHDT
Structures	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	69	69	Diesel	3	HHDT
Structures	2028	SFBAAB	2028SFBAABMHDT	Concrete Pump Truck	1	17	137	137	Diesel	3	HHDT
Structures	2028	SFBAAB	2028SFBAABMHDT	Concrete Truck	3	17	137	137	Diesel	5	HHDT
Str	2028										2028 Structures
Site Work	2028	SFBAAB	2028SFBAABMHDT-HHDT	Water Truck	1	17	10	7	Diesel	2	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	88	65	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	88	65	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	6	4	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	88	65	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	30.589	40	78	58	Diesel	186	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.1626	40	88	65	Diesel	1	HHDT
SW	2028										2028 Site Work
Site Work	2029	SFBAAB	2029SFBAABMHDT-HHDT	Water Truck	1	17	10	3	Diesel	2	MHDT-HHDT

g/mi (EMFAC, AP-42)												Process g/trip (EMFAC)												Pounds per day												Metric tons per day						Gal per day	Tons per year												Metric tons per year				Gal per Fuel
ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O		ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O		ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
0.0	1.3	0.1	0.0	0.0	1.3	0.3	0.0	1344	0.0	0.2		0.2	4.8	2.8	0.0	0.0	0.0	0.0	0.0	479.1	0.0	0.1		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	2	151
0.0	0.7	0.0	0.0	0.0	0.3	0.1	0.0	315	0.0	0.0		0.7	0.3	3.1	0.0	0.0	0.0	0.0	0.0	79.6	0.1	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	3



Locomotive Calculations | Location | Offsite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr									Pounds per day								Metric tons per day					Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	14	14	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	37.8	0.0	0.0	38.1	3,699
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	21	21	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	4.1	1.7	0.1	0.1	0.0	0.0	0.0	406.5	0.0	0.0	410.5	39,812
Elmhurst-WilliamsRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.3	4.5	1.8	0.1	0.1	0.0	0.0	0.0	444.2	0.0	0.0	448.6	43,511
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	14	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	21	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	14	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	21	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	23	10	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0	26.0	2,519
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	44	18	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	3.5	1.4	0.1	0.1	0.0	0.0	0.0	353.0	0.0	0.0	356.5	34,573
Williams-MtEdenRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.2	3.8	1.5	0.1	0.1	0.0	0.0	0.0	378.7	0.0	0.0	382.4	37,092
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	23	13	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	36.3	0.0	0.0	36.7	3,558
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	44	26	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.3	5.0	2.0	0.1	0.1	0.0	0.0	0.0	498.7	0.0	0.0	503.6	48,842
Williams-MtEdenRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.3	5.4	2.2	0.1	0.1	0.0	0.0	0.0	535.0	0.0	0.0	540.3	52,400
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	23	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	44	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	13	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	28	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	13	13	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	35.1	0.0	0.0	35.4	3,435
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	28	28	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.3	5.4	2.2	0.1	0.1	0.0	0.0	0.0	542.0	0.0	0.0	547.3	53,082
MtEden-BaumbergRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.4	5.8	2.4	0.1	0.1	0.0	0.0	0.0	577.0	0.0	0.0	582.7	56,517
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	13	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	28	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	14	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	31	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-AlvaradoRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	14	7	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	18.9	0.0	0.0	19.1	1,856
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	31	16	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	3.0	1.2	0.1	0.1	0.0	0.0	0.0	301.0	0.0	0.0	304.0	29,483
Baumberg-AlvaradoRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.2	3.2	1.3	0.1	0.1	0.0	0.0	0.0	320.0	0.0	0.0	323.1	31,339
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	14	7	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	19.0	1,843
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	31	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	3.0	1.2	0.1	0.1	0.0	0.0	0.0	299.0	0.0	0.0	302.0	29,287
Baumberg-AlvaradoRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.2	3.2	1.3	0.1	0.1	0.0	0.0	0.0	317.8	0.0	0.0	321.0	31,130
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	5	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	6	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-LowryRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	5	1	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	373
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	6	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	32.8	0.0	0.0	33.2	3,216
Alvarado-LowryRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	36.6	0.0	0.0	37.0	3,589
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	5	4	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	9.8	948
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	6	4	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	83.3	0.0	0.0	84.1	8,159
Alvarado-LowryRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	93.9	9,107
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	8	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	11	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	8	8	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	21.8	2,114
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	11	11	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	2.1	0.9	0.0	0.0	0.0	0.0	0.0	212.9	0.0	0.0	215.0	20,854
Lowry-ArdenwoodRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.1	2.4	1.0	0.0	0.0	0.0	0.0	0.0	234.5	0.0	0.0	236.8	22,968
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	8	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	11	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	4	1	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	374
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	14	5	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.0	0.4	0.0	0.0	0.0	0.0	0.0	95.9	0.0	0.0	96.8	9,392
Ardenwood-JarvisRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.1	1.0	0.4	0.0	0.0	0.0	0.0	0.0	99.7	0.0	0.0	100.7	9,765
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	4	3	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	7.0	683
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	14	9	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.8	0.7	0.0	0.0	0.0	0.0	0.0	175.1	0.0	0.0	176.8	17,150
Ardenwood-JarvisRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0

Earth Moving Calculations Location Onsite

Code	Activity	Days 2027	Days 2028	Days 2029	Grading (acres/day)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	Pounds per day ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	Metric tons per day CO2	CH4	N2O	CO2e	Gal per day Fuel
Elmhurst-Williams																										
Elmhurst-WilliamsSW	Site Work	87	-	-	0.625	57,289	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	54	-	-	-	25,639	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
Elmhurst-WilliamsRWProduction	Rail Work (Production)	54	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Elmhurst-WilliamsStr	Structures	54	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Elmhurst-WilliamsRdwy	Roadway Work	22	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Elmhurst-WilliamsUtil	Utilities	87	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Williams-MtEden		-	-	-	-		-																			
Williams-MtEdenSW	Site Work	130	1	-	0.625	75,270	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
Williams-MtEdenRWPrep	Rail Work (Prep)	45	64	-	-	42,377	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
Williams-MtEdenRWProduction	Rail Work (Production)	45	64	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Williams-MtEdenStr	Structures	143	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Williams-MtEdenRdwy	Roadway Work	44	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Williams-MtEdenUtil	Utilities	130	1	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
MtEden-Baumberg		-	-	-	-		-																			
MtEden-BaumbergSW	Site Work	-	87	-	0.625	52,021	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
MtEden-BaumbergRWPrep	Rail Work (Prep)	-	66	-	-	22,376	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
MtEden-BaumbergRWProduction	Rail Work (Production)	-	66	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
MtEden-BaumbergStr	Structures	23	108	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
MtEden-BaumbergRdwy	Roadway Work	-	22	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
MtEden-BaumbergUtil	Utilities	-	87	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Baumberg-Alvarado		-	-	-	-		-																			
Baumberg-AlvaradoSW	Site Work	-	86	23	0.625	56,924	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	-	43	43	-	25,067	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
Baumberg-AlvaradoRWProductior	Rail Work (Production)	-	43	43	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Baumberg-AlvaradoStr	Structures	-	153	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Baumberg-AlvaradoRdwy	Roadway Work	-	44	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Baumberg-AlvaradoUtil	Utilities	-	86	23	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-Lowry		-	-	-	-		-																			
Alvarado-LowrySW	Site Work	-	65	23	0.625	32,184	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.2						
Alvarado-LowryRWPrep	Rail Work (Prep)	-	21	53	-	7,084	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-LowryRWProduction	Rail Work (Production)	-	21	53	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-LowryStr	Structures	-	86	43	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-LowryRdwy	Roadway Work	-	31	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Alvarado-LowryUtil	Utilities	-	65	23	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-Ardenwood		-	-	-	-		-																			
Lowry-ArdenwoodSW	Site Work	-	87	-	0.625	21,872	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.1						
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	-	66	-	-	12,520	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-ArdenwoodRWProduction	Rail Work (Production)	-	66	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-ArdenwoodStr	Structures	23	195	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-ArdenwoodRdwy	Roadway Work	-	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4													
Lowry-ArdenwoodUtil	Utilities	-	87	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-Jarvis		-	-	-	-		-																			
Ardenwood-JarvisSW	Site Work	45	21	-	0.625	11,405	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.1						
Ardenwood-JarvisRWPrep	Rail Work (Prep)	23	42	-	-	4,942	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisRWProduction	Rail Work (Production)	23	42	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisStr	Structures	65	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisSta	Station	-	239	22	-	10,143	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisRdwy	Roadway Work	-	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4													
Ardenwood-JarvisUtil	Utilities	45	21	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-Thornton		-	-	-	-		-																			
Jarvis-ThorntonSW	Site Work	66	-	-	0.625	25,091	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.2						
Jarvis-ThorntonRWPrep	Rail Work (Prep)	65	-	-	-	10,873	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-ThorntonRWProduction	Rail Work (Production)	65	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-ThorntonStr	Structures	87	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-ThorntonRdwy	Roadway Work	44	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Jarvis-ThorntonUtil	Utilities	66	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-Newark		-	-	-	-		-																			
Thornton-NewarkSW	Site Work	87	-	-	0.625	26,857	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.2						
Thornton-NewarkRWPrep	Rail Work (Prep)	88	-	-	-	18,029	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-NewarkRWProduction	Rail Work (Production)	88	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-NewarkStr	Structures	44	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-NewarkRdwy	Roadway Work	22	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Thornton-NewarkUtil	Utilities	87	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						

Paving Calculations Location Onsite

Code	Days	Paved (acres)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams																
Elmhurst-WilliamsSW	87	0.9	2.6	0.0												
Elmhurst-WilliamsRW																
Elmhurst-WilliamsStr																
Williams-MtEden																
Williams-MtEdenSW	131	3.5	2.6	0.1												
Williams-MtEdenRW																
Williams-MtEdenStr																
MtEden-Baumberg																
MtEden-BaumbergSW	87	1.3	2.6	0.0												
MtEden-BaumbergRW																
MtEden-BaumbergStr																
Baumberg-Alvarado																
Baumberg-AlvaradoSW	109	2.4	2.6	0.1												
Baumberg-AlvaradoRW																
Baumberg-AlvaradoStr																
Alvarado-Lowry																
Alvarado-LowrySW	88	2.8	2.6	0.1												
Alvarado-LowryRW																
Alvarado-LowryStr																
Lowry-Ardenwood																
Lowry-ArdenwoodSW	87	-	2.6	0.0												
Lowry-ArdenwoodRW																
Lowry-ArdenwoodStr																
Ardenwood-Jarvis																
Ardenwood-JarvisSta	261	13.2	2.6	0.1												
Ardenwood-JarvisRW																
Ardenwood-JarvisStr																
Jarvis-Thornton																
Jarvis-ThorntonSW	66	1.8	2.6	0.1												
Jarvis-ThorntonRW																
Jarvis-ThorntonStr																
Thornton-Newark																
Thornton-NewarkSW	87	3.1	2.6	0.1												
Thornton-NewarkRW																
Thornton-NewarkStr																

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams																	
Elmhurst-WilliamsSW	87	632	0.023	0.003						0.2	0.0						
Elmhurst-WilliamsRW																	
Elmhurst-WilliamsStr																	
Williams-MtEden																	
Williams-MtEdenSW	131	253	0.023	0.003						0.0	0.0						
Williams-MtEdenRW																	
Williams-MtEdenStr																	
MtEden-Baumberg																	
MtEden-BaumbergSW	87	126	0.023	0.003						0.0	0.0						
MtEden-BaumbergRW																	
MtEden-BaumbergStr																	
Baumberg-Alvarado																	
Baumberg-AlvaradoSW	109	253	0.023	0.003						0.1	0.0						
Baumberg-AlvaradoRW																	
Baumberg-AlvaradoStr																	
Alvarado-Lowry																	
Alvarado-LowrySW	88	253	0.023	0.003						0.1	0.0						
Alvarado-LowryRW																	
Alvarado-LowryStr																	
Lowry-Ardenwood																	
Lowry-ArdenwoodSW	87	2,528	0.023	0.003						0.7	0.1						
Lowry-ArdenwoodRW																	
Lowry-ArdenwoodStr																	
Ardenwood-Jarvis																	
Ardenwood-JarvisSW	66	126	0.023	0.003						0.0	0.0						
Ardenwood-JarvisRW																	
Ardenwood-JarvisStr																	
Jarvis-Thornton																	
Jarvis-ThorntonSW	66	126	0.023	0.003													
Jarvis-ThorntonRW																	
Jarvis-ThorntonStr																	
Thornton-Newark																	
Thornton-NewarkSW	87	126	0.023	0.003						0.0	0.0						
Thornton-NewarkRW																	
Thornton-NewarkStr																	

Coast Sub-Division – Unmitigated Emissions Calculation Sheet

1		2	3	4	5	6		
Code	**Description**		**Start Date**	**Working Days**	**2024**	**2025**	**2026**	**End Date**
CoastSub								
CoastSubSW	Site Work		1/1/2024	135	135	0	-	7/8/2024
CoastSubRWPrep	Rail Work (Prep)		7/8/2024	64	64	0	-	10/4/2024
CoastSubRWProduction	Rail Work (Production)		7/8/2024	2	2	0	-	7/10/2024
CoastSubRdwy	Roadway Work		10/8/2024	40	40	0	-	12/3/2024
CoastSubStr	Structures		12/3/2024	388	21	261	106 -	5/29/2026
CoastSubUtil	Utilities		1/1/2024	450	262	188		9/22/2025

Code	Working Days			2024												2025												2026											
				Tons per year								Metric tons per year				Gal/yr	Tons per year								Metric tons per year				Gal/year	Tons per year								Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Coast Sub				**1**	**8**	**5**	**0**	**0**	**1**	**0**	**0**	**1,304**	**0**	**0**	**1,325**	**127,285**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**254**	**0**	**0**	**256**	**25,618**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**60**	**0**	**0**	**60**	**6,077**
Off-Road																																									
coastsub				***0***	***2***	***2***	***0***	***0***	***0***	***0***	***0***	***385***	***0***	***0***	***386***	***36.501***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***181***	***0***	***0***	***181***	***17.682***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***38***	***0***	***0***	***38***	***3.734***
coastsubSW	135	0	0	0	1	0	0	0	0	0	0	88	0	0	88	8,595																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	100	0	0	100	9,750																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	32	0	0	32	3,107																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	8	0	0	8	787	0	0	0	0	0	0	0	0	94	0	0	94	9,195	0	0	0	0	0	0	0	0	38	0	0	38	3,734
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	37	0	0	37	2,433																									
coastsubUtil	262	188	0	0	1	1	0	0	0	0	0	121	0	0	121	11,830	0	0	1	0	0	0	0	0	87	0	0	87	8,487													
Employee																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***48***	***0***	***0***	***48***	***5.450***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***48***	***0***	***0***	***48***	***5.461***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***15***	***0***	***0***	***15***	***1.725***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	22	0	0	22	2,528																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	5	0	0	5	545																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	3	0	0	3	357	0	0	0	0	0	0	0	0	38	0	0	39	4,341	0	0	0	0	0	0	0	0	15	0	0	15	1,725
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	4	0	0	4	408																									
coastsubutil	262	188	0	0	0	0	0	0	0	0	0	14	0	0	14	1,561	0	0	0	0	0	0	0	0	10	0	0	10	1,120													
Off-Site On-Road																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***303***	***0***	***0***	***317***	***29.701***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***25***	***0***	***0***	***26***	***2.475***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***7***	***618***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	278	0	0	291	27,194																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	6	0	0	6	552																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	1	0	0	1	127	0	0	0	0	0	0	0	0	16	0	0	16	1,549	0	0	0	0	0	0	0	0	6	0	0	7	618
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	5	0	0	5	489																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	13	0	0	14	1,313	0	0	0	0	0	0	0	0	9	0	0	10	926													
Locomotive																																									
coastsub				***0***	***6***	***2***	***0***	***0***	***0***	***0***	***0***	***568***	***0***	***0***	***574***	***55.632***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	6	2	0	0	0	0	0	568	0	0	574	55,632																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
Grading																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
Paving																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
Demolition																																									
coastsub				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
coastsubSW	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWPrep	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubRWProduction	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubStr	21	261	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
coastsubRdwy	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
coastsubUtil	262	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													

Employee Onroad Calculations Location Offsite

													2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23											
													g/mi (EMFAC, AP 42)											Process g/trip (EMFAC)											Pounds per day								Metric tons per day				Gal per day
Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	Mi/Day	Fuel	Fuel (gal/day)	Vehicle	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	CoastSubSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	22	44	515	Gas	19	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.6	0.0	0.0	1.4	0.4	0.0	0	0.0	0.0	0	19
CoastSub	CoastSubRWPrep2024	2024 Rail Work (Prep)	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
CoastSub	CoastSubRWProduction2024	2024 Rail Work (Production)	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
CoastSub	CoastSubRdwy2024	2024 Roadway Work	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	12	24	281	Gas	10	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.9	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0	10
CoastSub	CoastSubStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
CoastSub	CoastSubStr2025	2025 Structures	2025	SFBAAB	2025SFBAABLDA-LDT	Emplovee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.4	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
CoastSub	CoastSubStr2026	2026 Structures	2026	SFBAAB	2026SFBAABLDA-LDT	Emplovee Auto	20	40	468	Gas	16	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.1	0.1	1.3	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	16
CoastSub	CoastSubUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	7	14	164	Gas	6	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	6
CoastSub	CoastSubUtil2025	2025 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Emplovee Auto	7	14	164	Gas	6	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	6

Offroad Calculations | Location | Onsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalEEMod)										Pounds per day										Metric tons per day								Gal per day	Tons per year								Metric tons per year					Gal per Year
															ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	Site Work		2024 Excavator	2	6	45	45	Excavators	300	200	0.4	Diesel	47	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.3	2.3	2.2	0.1	0.1			0.0	0.5	0.0	0.0	0.5	47	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	21.7	0.0	0.0	21.8	2,124
CoastSub	Site Work		2024 Grader	1	6	60	60	Graders	300	190	0.7	Diesel	44	2024Graders300	0.1	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.5	5.4	2.3	0.2	0.2			0.0	0.4	0.0	0.0	0.4	44	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	26.7	0.0	0.0	26.8	2,617
CoastSub	Site Work		2024 D6 Dozer	1	6	90	90	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	28.7	2,797
CoastSub	Site Work		2024 Compactor	1	4	90	90	Other Construction Equipment	175	150	0.4	Diesel	12	2024Other Construction Equipment175	0.3	2.5	1.2	0.1	0.1			0.0	525.9	0.0	0.0	0.1	1.3	1.6	0.1	0.1			0.0	0.1	0.0	0.0	0.1	12	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.8	1,057
CoastSub	Site Work		2024 Off-Hatwaw Tru	0	0	0	0	Off-Hatwaw Trucks	600	400	0.4	Diesel	0	2024Off-Hatwaw Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
CoastSub	Site Work		2024 Chipper	0	0	0	0	Other Construction Equipment	50	50	0.4	Diesel	0	2024Other Construction Equipment50	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
CoastSubSW2024	SW		2024											**2024 Site Work**																																						
CoastSub	Rail Work (Prep)		2024 Tamper	1	6	60	60	Other Construction Equipment	300	250	0.4	Diesel	30	2024Other Construction Equipment300	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	2.8	1.7	0.1	0.1			0.0	0.3	0.0	0.0	0.3	30	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	18.1	0.0	0.0	18.1	1,771
CoastSub	Rail Work (Prep)		2024 Regulator	1	6	60	60	Other Construction Equipment	600	350	0.4	Diesel	41	2024Other Construction Equipment600	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	2.7	2.3	0.1	0.1			0.0	0.4	0.0	0.0	0.4	41	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	25.3	0.0	0.0	25.4	2,477
CoastSub	Rail Work (Prep)		2024 Sweedwine	1	6	60	60	Other Construction Equipment	175	160	0.4	Diesel	19	2024Other Construction Equipment175	0.3	2.5	1.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.0	2.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	19	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0	11.5	1,127
CoastSub	Rail Work (Prep)		2024 In Track Welder	1	4	24	24	Welders	999	300	0.5	Diesel	33	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.7	5.0	6.0	0.2	0.2			0.0	0.3	0.0	0.0	0.3	33	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	8.2	802
CoastSub	Rail Work (Prep)		2024 Wheel Loader	1	6	60	60	Rubber Tired Loaders	300	250	0.4	Diesel	31	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.3	2.4	1.5	0.1	0.1			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0	19.0	1,857
CoastSub	Rail Work (Prep)		2024 Backhoe	2	4	60	60	Tractors/Loaders/Backhoes	100	86	0.5	Diesel	16	2024Tractors/Loaders/Backhoes100	0.2	2.2	1.5	0.1	0.1			0.0	529.9	0.0	0.0	0.2	1.5	2.4	0.1	0.1			0.0	0.2	0.0	0.0	0.2	16	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	10.1	986
CoastSub	Rail Work (Prep)		2024 Mobile crane	1	6	29	29	Cranes	300	280	0.3	Diesel	25	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	3.4	1.8	0.1	0.1			0.0	0.3	0.0	0.0	0.3	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	7.5	730
CoastSubRWPrep2024	RWPrep		2024											**2024 Rail Work (Prep)**																																						
CoastSub	Rail Work (Production)		2024 Spike Puller	4	7	6	6	Other Construction Equipment	75	75	0.4	Diesel	41	2024Other Construction Equipment75	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.5	13.5	7.5	1.0	0.9			0.0	0.4	0.0	0.0	0.4	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	2.5	244
CoastSub	Rail Work (Production)		2024 Tie Inserter/Ren	4	7	6	6	Other Construction Equipment	300	200	0.4	Diesel	110	2024Other Construction Equipment300	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.0	10.5	6.3	0.4	0.4			0.0	1.1	0.0	0.0	1.1	110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.8	661
CoastSub	Rail Work (Production)		2024 Tie Crane	4	7	6	6	Other Construction Equipment	175	130	0.4	Diesel	71	2024Other Construction Equipment175	0.3	2.5	1.2	0.1	0.1			0.0	525.9	0.0	0.0	0.8	7.8	9.6	0.4	0.4			0.0	0.7	0.0	0.0	0.7	71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	4.4	427
CoastSub	Rail Work (Production)		2024 Plate Jack	4	7	6	6	Other Construction Equipment	25	10	0.4	Diesel	9	2024Other Construction Equipment25	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.5	1.1	0.1	0.1			0.0	0.1	0.0	0.0	0.1	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	53
CoastSub	Rail Work (Production)		2024 Soiker	4	7	18	18	Other Construction Equipment	100	100	0.4	Diesel	55	2024Other Construction Equipment100	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.8	7.6	8.4	0.5	0.5			0.0	0.6	0.0	0.0	0.6	55	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0	10.2	991
CoastSub	Rail Work (Production)		2024 Anchor Spreade	4	7	18	18	Other Construction Equipment	75	75	0.4	Diesel	41	2024Other Construction Equipment75	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.5	13.5	7.5	1.0	0.9			0.0	0.4	0.0	0.0	0.4	41	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	7.5	731
CoastSubRWProduction2024	RWProduction		2024											**2024 Rail Work (Production)**																																						
CoastSub	Roadway Work		2024 210 Tractor load	1	7	40	40	Tractors/Loaders/Backhoes	100	93	0.4	Diesel	21	2024Tractors/Loaders/Backhoes100	0.8	4.5	5.0	0.3	0.3			0.0	529.2	0.2	0.0	1.6	8.7	9.7	0.6	0.5			0.0	0.5	0.0	0.0	0.5	21	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	18.5	0.0	0.0	18.8	821
CoastSub	Roadway Work		2024 Paver	1	4	8	8	Pavers	175	170	0.4	Diesel	21	2024Pavers175	0.8	4.5	5.0	0.3	0.3			0.0	529.2	0.2	0.0	1.6	8.7	9.7	0.6	0.5			0.0	0.5	0.0	0.0	0.5	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	3.8	164
CoastSub	Roadway Work		2024 Compactor	1	7	24	24	Other Construction Equipment	175	150	0.4	Diesel	21	2024Other Construction Equipment175	0.3	2.5	1.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.2	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	5.1	493
CoastSub	Roadway Work		2024 Roller	1	7	8	8	Rollers	175	142	0.7	Diesel	38	2024Rollers175	0.1	1.3	2.9	0.1	0.1			0.0	527.5	0.0	0.0	0.2	2.1	4.7	0.1	0.1			0.0	0.4	0.0	0.0	0.4	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	3.1	304
CoastSub	Roadway Work		2024 Roller	1	7	24	24	Rollers	25	25	0.7	Diesel	11	2024Rollers25	0.8	6.3	4.4	0.2	0.2			0.0	848.0	0.0	0.0	0.2	1.8	1.3	0.1	0.1			0.0	0.1	0.0	0.0	0.1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	258
CoastSub	Roadway Work		2024 Cold Planer	1	7	8	8	other construction equipment	600	337	0.4	Diesel	46	2024other construction equipment600	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.1	2.6	0.1	0.1			0.0	0.5	0.0	0.0	0.5	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.8	371
CoastSub	Roadway Work		2024 Jumping jack Co	2	6	16	16	plate compactors	25	3	0.4	Diesel	1	2024plate compactors25	0.5	4.1	3.5	0.2	0.1			0.0	568.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0			0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	12
CoastSub	Roadway Work		2024 Vibratory Plate I	1	6	24	24	plate compactors	25	3.5	0.4	Diesel	0	2024plate compactors25	0.5	4.1	3.5	0.2	0.1			0.0	568.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	10
CoastSubRdwy2024	Rdwy		2024											**2024 Roadway Work**																																						
CoastSub	Structures		2024 Generators	2	8	176	10	Generator sets	25	13	0.2	Diesel	2	2024Generator sets25	0.5	4.4	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.1	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	22
CoastSub	Structures		2024 Mobile Cranes	1	8	176	10	Cranes	300	230	0.3	Diesel	28	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	3.7	2.0	0.2	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.7	263
CoastSub	Structures		2024 Concrete pumps	1	8	33	2	Pumps	999	80	0.3	Diesel	11	2024Pumps999	0.4	3.6	4.0	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.5	1.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	19
CoastSub	Structures		2024 Wheel Loader	1	8	176	10	Tractors/Loaders/Backhoes	300	200	0.5	Diesel	38	2024Tractors/Loaders/Backhoes300	0.2	1.6	1.2	0.1	0.1			0.0	526.1	0.0	0.0	0.3	2.7	2.0	0.1	0.1			0.0	0.4	0.0	0.0	0.4	38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	3.7	361
CoastSub	Structures		2024 Welder	2	8	10	1	Welders	999	30	0.5	Diesel	13	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.3	2.0	2.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	7
CoastSub	Structures		2024 Soil nail anchor	1	8	22	1	Other Construction Equipment	175	110	0.4	Diesel	17	2024Other Construction Equipment175	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.9	2.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	21
CoastSub	Structures		2024 Generator	2	8	22	1	Generator sets	25	13	0.2	Diesel	2	2025Generator sets25	0.5	4.4	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.1	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	34
CoastSub	Structures		2024 Concrete pumps	1	8	14	1	Pumps	999	400	0.3	Diesel	53	2024Pumps999	0.4	3.6	4.0	0.1	0.1			0.0	568.3	0.0	0.0	0.9	7.7	8.4	0.2	0.2			0.0	0.5	0.0	0.0	0.5	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	40
CoastSub	Structures		2024 210 Tractor load	1	8	36	2	Tractors/Loaders/Backhoes	100	93	0.5	Diesel	18	2024Tractors/Loaders/Backhoes100	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.2	1.7	2.6	0.1	0.1			0.0	0.2	0.0	0.0	0.2	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	435
CoastSub	Structures		2024 Welder	2	8	22	1	Welders	999	30	0.5	Diesel	13	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.3	2.0	2.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	16
CoastSubStr2024	Str		2024											**2024 Structures**																																						
CoastSub	Structures		2025 Generators	2	8	176	138	Generator sets	25	13	0.2	Diesel	2	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	274
CoastSub	Structures		2025 Mobile Cranes	1	8	176	138	Cranes	300	230	0.3	Diesel	28	2025Cranes300	0.3	2.8	1.5	0.1	0.1			0.0	527.6	0.0	0.0	0.3	3.3	1.8	0.1	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.4	3,264
CoastSub	Structures		2025 Concrete pumps	1	8	33	22	Pumps	999	80	0.3	Diesel	11	2025Pumps999	0.4	3.5	3.9	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.5	1.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.4	237
CoastSub	Structures		2025 Wheel Loader	1	8	176	138	Rubber Tired Loaders	300	200	0.4	Diesel	33	2025Rubber Tired Loaders300	0.2	1.5	1.2	0.0	0.0			0.0	526.7	0.0	0.0	0.3	2.1	1.6	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	39.9	0.0	0.0	40.0	3,909
CoastSub	Structures		2025 Welder	2	8	10	7	Welders	999	30	0.5	Diesel	13	2025Welders999	0.5	3.7	4.5	0.1	0.1			0.0	568.3	0.0	0.0	0.3	1.9	2.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.9	90
CoastSub	Structures		2025 Soil nail anchor	1	8	22	15	Other Construction Equipment	175	110	0.4	Diesel	17	2025Other Construction Equipment175	0.2	2.2	3.1	0.1	0.1			0.0	526.5	0.0	0.0	0.2	1.6	2.3	0.1	0.1			0.0	0.2	0.0	0.0	0.2	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	2.6	255
CoastSub	Structures		2025 Generator	2	8	22	15	Generator sets	25	13	0.2	Diesel	2	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.4	34
CoastSub	Structures		2025 Concrete pumps	1	8	14	9	Pumps	999	400	0.3	Diesel	53	2025Pumps999	0.4	3.5	3.9	0.1	0.1			0.0	568.3	0.0	0.0	0.8	7.5	8.3	0.2	0.2			0.0	0.5	0.0	0.0	0.5	53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	5.2	503
CoastSub	Structures		2025 210 Tractor load	1	8	36	24	Tractors/Loaders/Backhoes	100	93	0.5	Diesel	18	2025Tractors/Loaders/Backhoes100	0.2	2.0	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.5	2.6	0.1	0.1			0.0	0.2	0.0	0.0	0.2	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	4.4	430
CoastSub	Structures		2025 Welder	2	8	22	15	Welders	999	30	0.5	Diesel	13	2025Welders999	0.5	3.7	4.5	0.1	0.1			0.0	568.3	0.0	0.0	0.3	1.9	2.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	198
CoastSubStr2025	Str		2025											**2025 Structures**																																						
CoastSub	Structures		2026 Generators	2	8	176	48	Generator sets	25	13	0.2	Diesel	2	2025Generator sets25	0.5	4.3	2.9	0.2	0.2			0.0	568.3	0.0	0.0	0.0	0.4	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	111
CoastSub	Structures		2026 Mobile Cranes	1	8	176	48	Cranes	300	230	0.3	Diesel	28	2025Cranes300	0.3	2.8	1.5	0.1	0.1			0.0	527.6	0.0	0.0	0.3	3.3	1.8	0.1	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.0	0.0	13.6	1,326
CoastSub	Structures		2026 Concrete pumps	1	8	33	9	Pumps	999	80	0.3	Diesel	11	2025Pumps999	0.4	3.5	3.9	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.5	1.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	96
CoastSub	Structures		2026 Wheel Loader	1	8	176	48	Rubber Tired Loaders	300	200	0.4	Diesel	33	2025Rubber Tired Loaders300	0.2	1.5	1.2	0.0	0.0			0.0	526.7	0.0	0.0	0.3	2.1	1.6	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	16.2	0.0	0.0	16.3	1,587
CoastSub	Structures		2026 Welder	2	8	10	3	Welders	999	30	0.5	Diesel	13	2025Welders999	0.5	3.7	4.5	0.1	0.1			0.0	568.3	0.0	0.0	0.3	1.9	2.4	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	36
CoastSub	Structures		2026 Soil nail anchor	1	8	22	6	Other Construction Equipment	175	110	0.4	Diesel	17	2025Other Construction Equipment175	0.2	2.2	3.1	0.1	0.1			0.0	526.5	0.0	0.0	0.2	1.6	2.3

Offsite Dressed Calculations | Location | Offsite

| | | |

Locomotive Calculations | Location | Offsite and OnSite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	18	18	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	64.7	0.0	0.0	65.4	6,341
CoastSub	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	6	6	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.2	0.5	0.0	0.0	0.0	0.0	0.0	116.1	0.0	0.0	117.3	11,375
CoastSub	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	4	10	10	10	4400	0.4	Diesel	3792	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	47.3	777.4	316.2	13.8	13.4			0.9	38.7	0.0	0.0	39.1	3,792	0.2	3.9	1.6	0.1	0.1	0.0	0.0	0.0	387.1	0.0	0.0	390.9	37,916
CoastSubRWPrep2024	RWPrep2024																						75.3	1,238.4	503.6	22.0	21.4	0.0	0.0	1.4	61.7	0.0	0.0	62.3	6,040	0.3	5.7	2.3	0.1	0.1	0.0	0.0	0.0	568.0	0.0	0.0	573.6	55,632

Earth Moving Calculations Location Onsite

Code	Days	Grading (acres)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor						Pounds per day								Metric tons per day				Gal per day
					PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub																							
CoastSubSW	135	0.8	126,442	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.7	2.5						
CoastSubRWPrep	64	0.0	102,267	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.4	0.1						
CoastSubRWProduction	2	0.0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
CoastSubStr	21	0.0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
CoastSubRdwy	40	0.0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
CoastSubUtil	262	0.0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						

Paving Calculations Location Onsite

Code	Days	Paved (sf)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub																
CoastSubSW	135	230,868	2.6	0.1												
CoastSubRW			2.6													
CoastSubStr			2.6													

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
CoastSub																	
CoastSubSW	135	329	0.023	0.003						0.1	0.0						
CoastSubRW			0.023	0.003													
CoastSubStr			0.023	0.003													

Niles-Oakland At-Grade – Unmitigated Emissions Calculation Sheet

Code	Description	Start Date	Working Days	2024	2025	2026		End Date
HaywardSidingBOA								
HaywardSidingBOASW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOAUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBOARWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBOARWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOAStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBOARdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBO							-	
HaywardSidingBOSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBORWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBORWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBORdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1							-	
HaywardSidingC1SW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1Util	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingC1RWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingC1RWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingC1Str	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingC1Rdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingD							-	
HaywardSidingDSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingDUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingDRWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingDRWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingDStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingDRdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
IndustrialParkwayBOA							-	
IndustrialParkwayBOASW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOAUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBOARWPrep	Rail Work (Prep)	9/9/2025	80	0	80		-	12/30/2025
IndustrialParkwayBOARWProduction	Rail Work (Production)	9/9/2025	2	0	2		-	9/11/2025
IndustrialParkwayBOAStr	Structures	3/25/2025	120	0	120		-	9/9/2025
IndustrialParkwayBOARdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBO							-	
IndustrialParkwayBOSW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBORWPrep	Rail Work (Prep)	9/9/2025	80	0	80		-	12/30/2025
IndustrialParkwayBORWProduction	Rail Work (Production)	9/9/2025	2	0	2		-	9/11/2025
IndustrialParkwayBOStr	Structures	3/25/2025	120	0	120		-	9/9/2025
IndustrialParkwayBORdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1							-	
IndustrialParkwayC1SW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1Util	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayC1RWPrep	Rail Work (Prep)	9/9/2025	80		80		-	12/30/2025
IndustrialParkwayC1RWProduction	Rail Work (Production)	9/9/2025	2		2		-	9/11/2025
IndustrialParkwayC1Str	Structures	3/25/2025	20		20		-	4/22/2025
IndustrialParkwayC1Rdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
							-	
							-	
							-	
							-	
							-	
DecotoSidingBOA							-	
DecotoSidingBOASW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOAUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBOARWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBOARWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOAStr	Structures	N/A	0	0	0		-	
DecotoSidingBOARdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBO							-	
DecotoSidingBOSW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBORWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBORWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOStr	Structures	N/A	0	0	0		-	
DecotoSidingBORdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1							-	
DecotoSidingC1SW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1Util	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingC1RWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingC1RWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingC1Str	Structures	N/A	0	0	0		-	
DecotoSidingC1Rdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingD							-	
DecotoSidingDSW	Site Work	1/2/2024	200	200	0		-	10/8/2024
DecotoSidingDUtil	Utilities	1/2/2024	200	200	0			10/8/2024
DecotoSidingDRWPrep	Rail Work (Prep)	1/20/2026	80	0	0	80	-	5/12/2026
DecotoSidingDRWProduction	Rail Work (Production)	1/20/2026	10	0	0	10	-	2/3/2026
DecotoSidingDStr	Structures	10/8/2024	300	61	239		-	12/2/2025
DecotoSidingDRdwy	Roadway Work	12/2/2025	50	0	22	28	-	2/10/2026
AlamedaCkFreBOA							-	
AlamedaCkFreBOASW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOAUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBOARWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025
AlamedaCkFreBOARWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOAStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBOARdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBO							-	
AlamedaCkFreBOSW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBORWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025

AlamedaCkFreBORWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBORdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreC1							-	
AlamedaCkFreC1SW	Site Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreC1Util	Utilities	10/29/2024	140	46	94			5/13/2025
AlamedaCkFreC1RWPrep	Rail Work (Prep)	7/6/2026	80	0	0	80	-	10/26/2026
AlamedaCkFreC1RWProduction	Rail Work (Production)	7/6/2026	6	0	0	6	-	7/14/2026
AlamedaCkFreC1Str	Structures	2/18/2025	360	0	227	133	-	7/7/2026
AlamedaCkFreC1Rdwy	Roadway Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreD							-	
AlamedaCkFreDSW	Site Work	3/19/2025	80	0	80		-	7/9/2025
AlamedaCkFreDUtil	Utilities	3/19/2025	80	0	80			7/9/2025
AlamedaCkFreDRWPrep	Rail Work (Prep)	7/9/2025	80	0	80		-	10/29/2025
AlamedaCkFreDRWProduction	Rail Work (Production)	7/9/2025	6	0	6		-	7/17/2025
AlamedaCkFreDStr	Structures	1/24/2024	300	245	55		-	3/19/2025
AlamedaCkFreDRdwy	Roadway Work	10/18/2025	15	0	15		-	11/7/2025

Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.0.A				**0**	**6**	**4**	**0**	**0**	**2**	**1**	**0**	**1,484**	**0**	**0**	**1,523**	**147,515**	**1**	**9**	**4**	**0**	**0**	**1**	**0**	**0**	**1,277**	**0**	**0**	**1,297**	**######**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Off-Road				**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**323**	**0**	**0**	**325**	**31,677**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**266**	**0**	**0**	**267**	**26,028**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,671***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	6	538																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***64***	***0***	***0***	***64***	***6,269***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***133***	***0***	***0***	***133***	***13,026***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	59	0	0	60	5,827	0	0	0	0	0	0	0	0	24	0	0	24	2,381											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	4	0	0	4	379	0	0	0	0	0	0	0	0	2	0	0	2	155											
IndustrialParkwayBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	56	0	0	56	5,512											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	15	0	0	15	1,435											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	36	0	0	36	3,518											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	63	0	0	0	0	0	0	0	0	0	0	0	0	26											
DecotoSidingBOA				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***15,089***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***1,221***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	7,002																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	318																								
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	3,919	0	0	0	0	0	0	0	0	12	0	0	13	1,221											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	2,942																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	908																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***3,648***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***120***	***0***	***0***	***121***	***11,781***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	3,182	0	0	0	0	0	0	0	0	38	0	0	38	3,737											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	151	0	0	0	0	0	0	0	0	2	0	0	2	178											
AlamedaCkFreBOARWPrep	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	2,941											
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	1,146											
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	3,411											
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	314	0	0	0	0	0	0	0	0	4	0	0	4	369											
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**136**	**15,302**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**81**	**0**	**0**	**82**	**9,201**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																								
HaywardSidingBOARWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***6,405***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***42***	***0***	***0***	***42***	***4,769***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	3,625	0	0	0	0	0	0	0	0	13	0	0	13	1,447											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	967	0	0	0	0	0	0	0	0	3	0	0	3	386											
IndustrialParkwayBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	665											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	50											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	13	0	0	13	1,497											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	1,813	0	0	0	0	0	0	0	0	6	0	0	6	724											
DecotoSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,910***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***158***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	2,042																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	817																								
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	519	0	0	0	0	0	0	0	0	1	0	0	1	158											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	511																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	1,021																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***1,953***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***38***	***0***	***0***	***38***	***4,275***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	387	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	998											
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	150											
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	1,331											
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898											
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**719**	**0**	**0**	**752**	**70,410**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**240**	**0**	**0**	**251**	**23,539**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***241***	***0***	***0***	***252***	***23,632***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***128***	***11,983***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	240	0	0	251	23,482	0	0	0	0	0	0	0	0	96	0	0	101	9,442											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	62	0	0	0	0	0	0	0	0	0	0	0	0	25											
IndustrialParkwayBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	7	0	0	8	729											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	9											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	18	0	0	19	1,749											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	89	0	0	0	0	0	0	0	0	0	0	0	0	29											
DecotoSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***25,245***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	24,622																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	84																								
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	352	0	0	0	0	0	0	0	0	1	0	0	1	108											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	89																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	97																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***93***	***0***	***0***	***97***	***9,101***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***117***	***0***	***0***	***122***	***11,448***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	92	0	0	96	9,028	0	0	0	0	0	0	0	0	107	0	0	112	10,434											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	33											
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	345											
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	26											
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	559											
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	1	0	0	1	51											
Locomotive				**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**30,126**	**0**	**7**	**3**	**0**	**0**	**0**	**0**	**0**	**690**	**0**	**0**	**697**	**67,608**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																								
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***5***	***2***	***0***	***0***	***0***	***0***	***0***	***511***	***0***	***0***	***516***	***50,037***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOARWPreo	0	80	0														0	5	2	0	0	0	0	0	511	0	0	516	50,037											
IndustrialParkwayBOARWProductic	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOAStr	0	120	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidingBOA				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOASW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOARWPrep	61	19	0	0	3	1	0	0	0	0	0	258	0	0	261	25,278	0	1	0	0	0	0	0	0	80	0	0	81	7,873											
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
DecotoSidingBOAStr	0	0	0																																					
DecotoSidingBOARdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***9,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOARWPrep	0	80	0														0	1	0	0	0	0	0	0	99	0	0	100	9,697											
AlamedaCkFreBOARWProduction	0	6	0

| | | |

Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.O.				**0**	**6**	**4**	**0**	**0**	**2**	**1**	**0**	**1,485**	**0**	**0**	**1,524**	**147,596**	**1**	**9**	**5**	**0**	**0**	**1**	**0**	**0**	**1,286**	**0**	**0**	**1,306**	**######**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Off-Road				**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**324**	**0**	**0**	**325**	**31,770**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**267**	**0**	**0**	**268**	**26,180**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidineBORWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidineBOStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	501																									
HaywardSidineBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***64***	***0***	***0***	***64***	***6,269***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***133***	***0***	***0***	***133***	***13,026***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	59	0	0	60	5,827	0	0	0	0	0	0	0	0	24	0	0	24	2,381											
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	4	0	0	4	379	0	0	0	0	0	0	0	0	2	0	0	2	155											
IndustrialParkwayBORWPreo	0	80	0														0	0	0	0	0	0	0	0	56	0	0	56	5,512											
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	15	0	0	15	1,435											
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	36	0	0	36	3,518											
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	63	0	0	0	0	0	0	0	0	0	0	0	0	26											
DecotoSidingBO				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***15,089***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***1,221***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	7,002																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	318																									
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	3,919	0	0	0	0	0	0	0	0	12	0	0	13	1,221											
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	2,942																									
DecotoSidingBOStr	0	0	0																																					
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	908																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***39***	***0***	***0***	***39***	***3,778***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***122***	***11,934***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	3,182	0	0	0	0	0	0	0	0	38	0	0	38	3,737											
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	224	0	0	0	0	0	0	0	0	3	0	0	3	263											
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	2,941											
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	1,146											
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	3,411											
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	4	0	0	4	372	0	0	0	0	0	0	0	0	4	0	0	4	436											
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**135**	**15,228**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**84**	**0**	**0**	**85**	**9,561**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidineBOUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidineBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***6,405***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***42***	***0***	***0***	***42***	***4,769***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	3,625	0	0	0	0	0	0	0	0	13	0	0	13	1,447											
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	967	0	0	0	0	0	0	0	0	3	0	0	3	386											
IndustrialParkwayBORWPreo	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	665											
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	50											
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	13	0	0	13	1,497											
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	1,813	0	0	0	0	0	0	0	0	6	0	0	6	724											
DecotoSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,910***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***158***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	2,042																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	817																									
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	519	0	0	0	0	0	0	0	0	1	0	0	1	158											
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	511																									
DecotoSidingBOStr	0	0	0																																					
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	1,021																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***16***	***0***	***0***	***17***	***1,879***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***4,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898											
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	313	0	0	0	0	0	0	0	0	3	0	0	3	359											
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	998											
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	150											
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	1,331											
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898											
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**720**	**0**	**0**	**753**	**70,472**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**244**	**0**	**0**	**256**	**23,936**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***241***	***0***	***0***	***253***	***23,638***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***128***	***11,992***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	240	0	0	251	23,482	0	0	0	0	0	0	0	0	96	0	0	101	9,442											
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	62	0	0	0	0	0	0	0	0	0	0	0	0	25											
IndustrialParkwayBORWPreo	0	80	0														0	0	0	0	0	0	0	0	7	0	0	8	729											
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	9											
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	18	0	0	19	1,749											
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	95	0	0	0	0	0	0	0	0	0	0	0	0	38											
DecotoSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***255***	***0***	***0***	***267***	***24,964***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	249	0	0	260	24,341																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	84																									
DecotoSidineBORWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	352	0	0	0	0	0	0	0	0	1	0	0	1	108											
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	89																									
DecotoSidingBOStr	0	0	0																																					
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	97																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***96***	***0***	***0***	***101***	***9,437***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***126***	***11,836***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	95	0	0	100	9,348	0	0	0	0	0	0	0	0	110	0	0	115	10,803											
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	1	0	0	1	52											
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	345											
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	26											
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	559											
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	1	0	0	1	51											
Locomotive				**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**30,126**	**0**	**7**	**3**	**0**	**0**	**0**	**0**	**0**	**690**	**0**	**0**	**697**	**67,608**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidineBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***5***	***2***	***0***	***0***	***0***	***0***	***0***	***511***	***0***	***0***	***516***	***50,037***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBORWPreo	0	80	0														0	5	2	0	0	0	0	0	511	0	0	516	50,037											
IndustrialParkwayBORWProductior	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBOStr	0	120	0														0	0	0	0	0	0	0	0	0	0	0	0	0											
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidingBO				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOSW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidineBORWPreo	61	19	0	0	3	1	0	0	0	0	0	258	0	0	261	25,278	0	1	0	0	0	0	0	0	80	0	0	81	7,873											
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOStr	0	0	0																																					
DecotoSidineBORdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***9,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
AlamedaCkFreBORWPreo	0	80	0														0	1	0	0	0	0	0	0	99	0	0	100	9,697											
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	0

Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
C.1.				**0**	**6**	**4**	**0**	**0**	**2**	**1**	**0**	**1,508**	**0**	**0**	**1,548**	**149,992**	**1**	**8**	**4**	**0**	**0**	**1**	**0**	**0**	**1,304**	**0**	**0**	**1,329**	**######**	**0**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**466**	**0**	**0**	**470**	**46,332**
Off-Road				**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**326**	**0**	**0**	**327**	**31,938**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**234**	**0**	**0**	**235**	**22,939**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**195**	**0**	**0**	**196**	**19,087**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	501																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***63***	***0***	***0***	***64***	***6,206***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***133***	***0***	***0***	***133***	***13,026***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	59	0	0	60	5,827	0	0	0	0	0	0	0	0	24	0	0	24	2,381												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	4	0	0	4	379	0	0	0	0	0	0	0	0	2	0	0	2	155												
IndustrialParkwayC1RWPreo	0	80	0														0	0	0	0	0	0	0	0	56	0	0	56	5,512												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	15	0	0	15	1,435												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	36	0	0	36	3,518												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26												
DecotoSidingC1				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***15,089***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***1,221***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingC1SW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	7,002																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	318																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	3,919	0	0	0	0	0	0	0	0	12	0	0	13	1,221												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	2,942																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	908																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***4,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***89***	***0***	***0***	***89***	***8,692***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***195***	***0***	***0***	***196***	***19,087***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	36	0	0	37	3,564	0	0	0	0	0	0	0	0	74	0	0	75	7,287												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	212	0	0	0	0	0	0	0	0	4	0	0	4	433												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	71	0	0	71	6,913
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	30	0	0	30	2,915
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	5	0	0	5	497	0	1	0	0	0	0	0	0	95	0	0	95	9,260
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	233	0	0	0	0	0	0	0	0	5	0	0	5	476												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**143**	**0**	**0**	**144**	**16,251**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**121**	**0**	**0**	**122**	**13,810**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**43**	**0**	**0**	**44**	**4,911**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***65***	***0***	***0***	***65***	***7,350***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***28***	***0***	***0***	***28***	***3,135***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	3,625	0	0	0	0	0	0	0	0	13	0	0	13	1,447												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	17	0	0	17	1,912	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1RWPreo	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	665												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	50												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	2	0	0	2	249												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	1,813	0	0	0	0	0	0	0	0	6	0	0	6	724												
DecotoSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,910***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***158***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingC1SW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	2,042																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	817																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	519	0	0	0	0	0	0	0	0	1	0	0	1	158												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	511																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	1,021																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***1,957***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***92***	***0***	***0***	***93***	***10,516***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,911***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	14	0	0	14	1,564												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	3	0	0	3	391	0	0	0	0	0	0	0	0	7	0	0	7	782												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	9	0	0	9	976
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	1	0	0	1	146
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	58	0	0	59	6,608	0	0	0	0	0	0	0	0	33	0	0	34	3,788
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	14	0	0	14	1,564												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**732**	**0**	**0**	**766**	**71,677**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**358**	**0**	**0**	**374**	**35,036**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**19**	**0**	**0**	**20**	**1,883**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***241***	***0***	***0***	***253***	***23,638***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***128***	***11,992***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	240	0	0	251	23,482	0	0	0	0	0	0	0	0	96	0	0	101	9,442												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	62	0	0	0	0	0	0	0	0	0	0	0	0	25												
IndustrialParkwayC1RWPreo	0	80	0														0	0	0	0	0	0	0	0	7	0	0	8	729												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	9												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	18	0	0	19	1,749												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	95	0	0	0	0	0	0	0	0	0	0	0	0	38												
DecotoSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***25,245***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingC1SW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	24,622																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	84																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	352	0	0	0	0	0	0	0	0	1	0	0	1	108												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	89																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	97																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***106***	***0***	***0***	***111***	***10,361***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***234***	***0***	***0***	***245***	***22,937***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***19***	***0***	***0***	***20***	***1,883***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	105	0	0	110	10,289	0	0	0	0	0	0	0	0	211	0	0	221	20,701												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	1	0	0	1	81												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	7	656
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	0	0	0	0	26
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	21	0	0	22	2,091	0	0	0	0	0	0	0	0	12	0	0	13	1,202
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	1	0	0	1	64												
Locomotive				**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**30,126**	**0**	**6**	**2**	**0**	**0**	**0**	**0**	**0**	**591**	**0**	**0**	**597**	**57,911**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**209**	**0**	**0**	**211**	**20,451**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingC1SW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***5***	***2***	***0***	***0***	***0***	***0***	***0***	***511***	***0***	***0***	***516***	***50,037***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1RWPreo	0	80	0														0	5	2	0	0	0	0	0	511	0	0	516	50,037												
IndustrialParkwayC1RWProduction	0	2	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Str	0	20	0														0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingC1				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingC1SW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1Util	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1RWPreo	61	19	0	0	3	1	0	0	0	0	0	258	0	0	261	25,278	0	1	0	0	0	0	0	0	80	0	0	81	7,873												
DecotoSidingC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidingC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***	***1***	***0***	***0***	***0***	***0***	***209***	***0***	***0***	***211***	***20,451***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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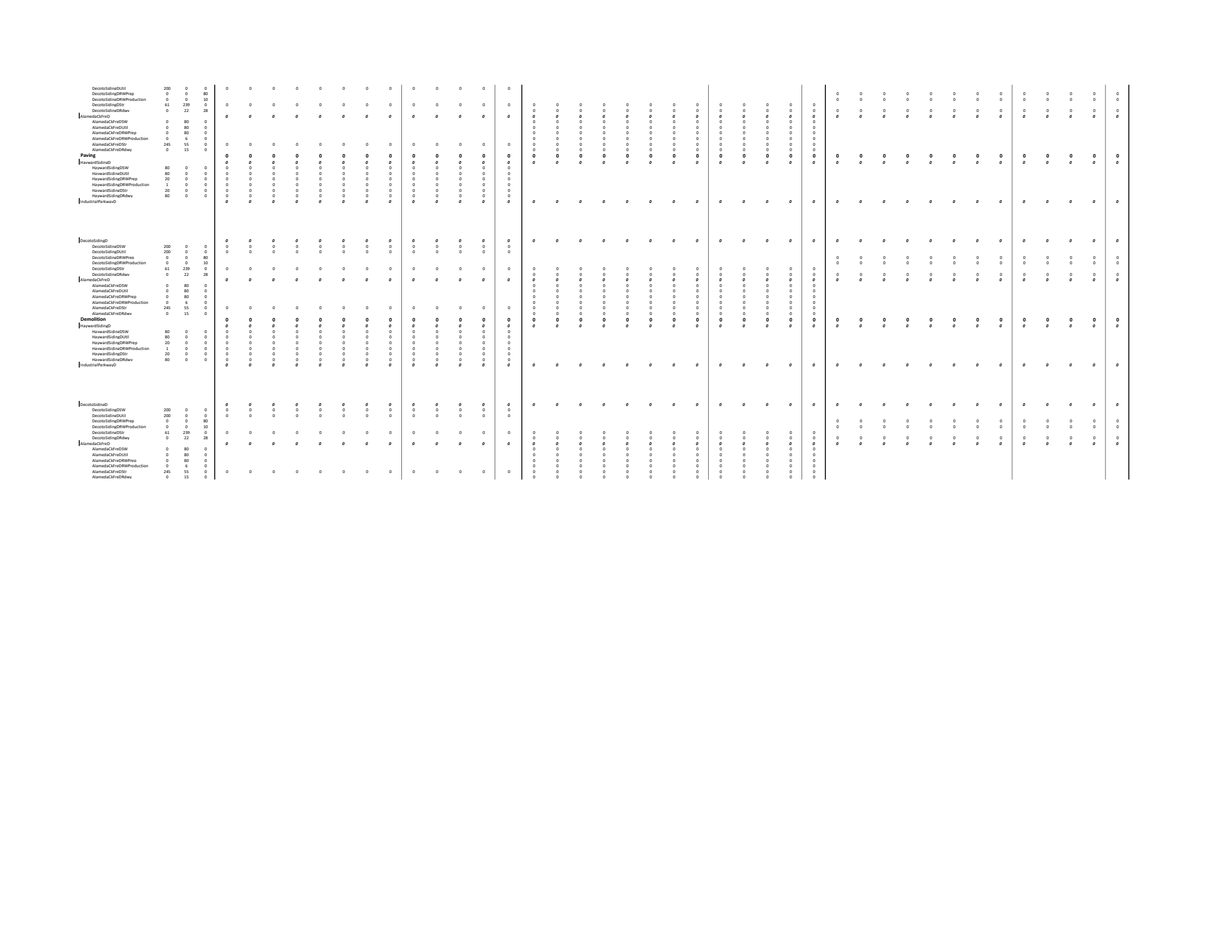
Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
D				**0**	**6**	**4**	**0**	**0**	**2**	**1**	**0**	**2,043**	**0**	**0**	**2,103**	**201,148**	**0**	**4**	**3**	**0**	**0**	**1**	**0**	**0**	**804**	**0**	**0**	**816**	**79,750**	**0**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**552**	**0**	**0**	**557**	**54,262**
Off-Road				**0**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**695**	**0**	**0**	**697**	**68,041**	**0**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**436**	**0**	**0**	**437**	**42,698**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**97**	**0**	**0**	**98**	**9,548**
HaywardSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	501																									
HaywardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
				0	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingD				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***300***	***29,320***	***0***	***2***	***1***	***0***	***0***	***0***	***0***	***0***	***237***	***0***	***0***	***238***	***23,219***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***97***	***0***	***0***	***98***	***9,548***
DecotoSidinaDSW	200	0	0	0	1	1	0	0	0	0	0	190	0	0	190	18,573																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	54	0	0	54	5,317																									
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	54	0	0	55	5,329
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	18	0	0	18	1,735
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	55	0	0	56	5,429	0	1	1	0	0	0	0	0	217	0	0	218	21,267											
DecotoSidinaDRdwy	0	22	28														0	0	0	0	0	0	0	0	20	0	0	20	1,952	0	0	0	0	0	0	0	0	25	0	0	25	2,484
AlamedaCkFreD				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***328***	***0***	***0***	***329***	***32,087***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***199***	***0***	***0***	***200***	***19,480***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	71	0	0	72	6,985													
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	2	0	0	2	153													
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	44	0	0	44	4,301													
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	7	0	0	7	665													
AlamedaCkFreDStr	245	55	0	0	1	1	0	0	0	0	0	328	0	0	329	32,087	0	0	0	0	0	0	0	0	74	0	0	74	7,203													
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	2	0	0	2	172													
Employee				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**0**	**0**	**68**	**7,668**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**0**	**0**	**63**	**7,106**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**11**	**0**	**0**	**11**	**1,237**
HaywardSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidinaDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***49***	***0***	***0***	***50***	***5,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***38***	***4,250***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***11***	***0***	***0***	***11***	***1,237***
DecotoSidinaDSW	200	0	0	0	0	0	0	0	0	0	0	30	0	0	30	3,404																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	10	0	0	11	1,191																									
DecotoSidingDRWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	651
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	2	0	0	2	244
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	9	0	0	9	1,038	0	0	0	0	0	0	0	0	35	0	0	35	3,975											
DecotoSidinaDRdwy	0	22	28														0	0	0	0	0	0	0	0	2	0	0	2	274	0	0	0	0	0	0	0	0	3	0	0	3	342
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***25***	***0***	***0***	***25***	***2,857***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	665													
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	3	0	0	3	333													
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	998													
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	50													
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	686													
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	1	0	0	1	125													
Off-Site On-Road				**0**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**1231**	**0**	**0**	**1288**	**120,591**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**185**	**0**	**0**	**193**	**18,135**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**0**	**0**	**14**	**1,334**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidinaDRWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidinaDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidinaDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaD				***0***	***2***	***0***	***0***	***0***	***1***	***0***	***0***	***1,083***	***0***	***0***	***1,133***	***106,024***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***34***	***0***	***0***	***36***	***3,351***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***1,334***
DecotoSidinaDSW	200	0	0	0	2	0	0	0	1	0	0	1,071	0	0	1,120	104,850																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	5	0	0	5	447																									
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	599
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	0	0	0	0	43
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	7	0	0	8	727	0	0	0	0	0	0	0	0	29	0	0	30	2,798											
DecotoSidinaDRdwy	0	22	28														0	0	0	0	0	0	0	0	6	0	0	6	553	0	0	0	0	0	0	0	0	7	0	0	7	692
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***22***	***0***	***0***	***23***	***2,135***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***151***	***0***	***0***	***158***	***14,784***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	140	0	0	147	13,739													
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	16													
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	5	0	0	5	487													
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	26													
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	22	0	0	23	2,135	0	0	0	0	0	0	0	0	5	0	0	5	471													
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	44													
Locomotive				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**50**	**0**	**0**	**50**	**4,848**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**121**	**0**	**0**	**122**	**11,811**	**0**	**4**	**2**	**0**	**0**	**0**	**0**	**0**	**430**	**0**	**0**	**435**	**42,144**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaDRWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***4***	***2***	***0***	***0***	***0***	***0***	***0***	***430***	***0***	***0***	***435***	***42,144***
DecotoSidinaDSW	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingDRWPrep	0	0	80																											0	4	2	0	0	0	0	0	430	0	0	435	42,144
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	0	0	0	0	0
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											
DecotoSidinaDRdwy	0	22	28														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***122***	***11,811***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	0													
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	0													
AlamedaCkFreDRWPrep	0	80	0														0	1	0	0	0	0	0	0	121	0	0	122	11,811													
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	0													
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	0													
Grading				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaDRWPrep	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaDSW	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									



Offroad Calculations | Location | Onsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalREMod)								Pounds per day							Metric tons per day							Gal per day	Tons per year							Metric tons per year				Gal per Year
															ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e		ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	Site Work		2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.3	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0			8.3	0.0	0.0	8.3	811
HaywardSidingBOA	Site Work		2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.3	0.0	0.0	0.3	24	0.0	0.0	0.0	0.0	0.0			4.9	0.0	0.0	5.0	483
HaywardSidingBOA	Site Work		2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0			9.5	0.0	0.0	9.6	932
HaywardSidingBOA	Site Work		2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0			4.2	0.0	0.0	4.3	415
HaywardSidingBOA	Site Work		2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.0	0.0	0.0	0.0			12.8	0.0	0.0	12.9	1,257
HaywardSidingBOA	Site Work		2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.1	0.6	0.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0			0.4	0.0	0.0	0.4	38
HaywardSidingBOASW2024	SW		2024																																													
HaywardSidingBOA	Utilities		2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			1.0	0.0	0.0	1.0	99
HaywardSidingBOA	Utilities		2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	5
HaywardSidingBOAOAI2024	Util		2024																																												
HaywardSidingBOA	Rail Work (Prep)		2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.0	0.0	0.0	0.0			3.3	0.0	0.0	3.3	326
HaywardSidingBOA	Rail Work (Prep)		2024	Regulator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.0	2.5	0.1	0.1			0.0	0.5	0.0	0.0	0.5	46	0.0	0.0	0.0	0.0	0.0			4.7	0.0	0.0	4.7	456
HaywardSidingBOA	Rail Work (Prep)		2024	Speedswing	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	208
HaywardSidingBOA	Rail Work (Prep)		2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.3	0.0	0.0	0.3	30	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	120
HaywardSidingBOA	Rail Work (Prep)		2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.3	2.6	1.4	0.1	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.0	0.0	0.0	0.0			2.8	0.0	0.0	2.9	279
HaywardSidingBOA	Rail Work (Prep)		2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingBOARWPrep2024	RWPrep		2024																																												
HaywardSidingBO	Rail Work (Production)		2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	0.8	7.7	4.3	0.6	0.5			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	45
HaywardSidingBO	Rail Work (Production)		2024	Tie Inserter/Ren	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	1.2	0.0	0.0	1.2	122	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	122
HaywardSidingBO	Rail Work (Production)		2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	0.8	0.0	0.0	0.8	79	0.0	0.0	0.0	0.0	0.0			0.8	0.0	0.0	0.8	79
HaywardSidingBO	Rail Work (Production)		2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			0.1	0.0	0.0	0.1	10
HaywardSidingBO	Rail Work (Production)		2024	Spiker	4	7	3	3	Other Construction Equipment	100	100	0.4	Diesel	61	2024Other Construction Equipme	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.9	8.4	9.2	0.5	0.5			0.0	0.6	0.0	0.0	0.6	61	0.0	0.0	0.0	0.0	0.0			1.9	0.0	0.0	1.9	183
HaywardSidingBO	Rail Work (Production)		2024	Anchor Spreade	4	7	3	3	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			1.4	0.0	0.0	1.4	135
HaywardSidingBOARWProduction2024	RWProduction		2024																																												
HaywardSidingBO	Structures		2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingBOA	Structures		2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	207
HaywardSidingBOA	Structures		2024	Wheel Loader	1	6	5	5	Rubber Tired Loaders	300	250	0.4	Diesel	22	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	1.7	1.1	0.1	0.1			0.0	0.2	0.0	0.0	0.2	22	0.0	0.0	0.0	0.0	0.0			1.1	0.0	0.0	1.1	111
HaywardSidingBOA	Structures		2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.5	0.5	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.2	0.0	0.0	0.2	15
HaywardSidingBOA	Structures		2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.5	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.3	0.0	0.0	0.3	27
HaywardSidingBOA	Structures		2024	Rough Terrain F	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.3	0.6	0.1	0.1			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	46
HaywardSidingBOASir2024	Sir		2024																																											
HaywardSidingBO	Site Work		2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0			8.3	0.0	0.0	8.3	811
HaywardSidingBO	Site Work		2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.3	0.0	0.0	0.3	24	0.0	0.0	0.0	0.0	0.0			4.9	0.0	0.0	5.0	483
HaywardSidingBO	Site Work		2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	0.3	0.0	0.0	0.3	31	0.0	0.1	0.1	0.0	0.0			9.5	0.0	0.0	9.6	932
HaywardSidingBO	Site Work		2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	0.1	0.0	0.0	0.1	14	0.0	0.0	0.0	0.0	0.0			4.2	0.0	0.0	4.3	415
HaywardSidingBO	Site Work		2024	Off-Highway Tru	2	6	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	0.6	0.0	0.0	0.6	63	0.0	0.0	0.0	0.0	0.0			12.8	0.0	0.0	12.9	1,257
HaywardSidingBO	Site Work		2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.1	0.6	0.7	0.0	0.0			0.0	0.1	0.0	0.0	0.1	7	0.0	0.0	0.0	0.0	0.0			0.4	0.0	0.0	0.4	38
HaywardSidingBOSW2024	SW		2024																																												
HaywardSidingBO	Utilities		2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			1.0	0.0	0.0	1.0	99
HaywardSidingBO	Utilities		2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	5
HaywardSidingBOAOAI2024	Util		2024																																											
HaywardSidingC1	Rail Work (Prep)		2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	0.3	0.0	0.0	0.3	33	0.0	0.0	0.0	0.0	0.0			3.3	0.0	0.0	3.3	326
HaywardSidingC1	Rail Work (Prep)		2024	Regulator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.0	2.5	0.1	0.1			0.0	0.5	0.0	0.0	0.5	46	0.0	0.0	0.0	0.0	0.0			4.7	0.0	0.0	4.7	456
HaywardSidingC1	Rail Work (Prep)		2024	Speedswing	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	208
HaywardSidingC1	Rail Work (Prep)		2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.3	0.0	0.0	0.3	30	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	120
HaywardSidingC1	Rail Work (Prep)		2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	2.1	1.4	0.1	0.1			0.0	0.3	0.0	0.0	0.3	28	0.0	0.0	0.0	0.0	0.0			2.8	0.0	0.0	2.9	279
HaywardSidingC1	Rail Work (Prep)		2024	Backhoe	2	4	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes1	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingC1RWPrep2024	RWPrep		2024																																												
HaywardSidingC1	Rail Work (Production)		2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	0.8	7.7	4.3	0.6	0.5			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	45
HaywardSidingC1	Rail Work (Production)		2024	Tie Inserter/Ren	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	1.2	0.0	0.0	1.2	122	0.0	0.0	0.0	0.0	0.0			1.2	0.0	0.0	1.2	122
HaywardSidingC1	Rail Work (Production)		2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	0.8	0.0	0.0	0.8	79	0.0	0.0	0.0	0.0	0.0			0.8	0.0	0.0	0.8	79
HaywardSidingC1	Rail Work (Production)		2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	0.1	0.0	0.0	0.1	10	0.0	0.0	0.0	0.0	0.0			0.1	0.0	0.0	0.1	10
HaywardSidingC1	Rail Work (Production)		2024	Spiker	4	7	3	3	Other Construction Equipment	100	100	0.4	Diesel	61	2024Other Construction Equipme	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.9	8.4	9.2	0.5	0.5			0.0	0.6	0.0	0.0	0.6	61	0.0	0.0	0.0	0.0	0.0			1.9	0.0	0.0	1.9	183
HaywardSidingC1	Rail Work (Production)		2024	Anchor Spreade	4	7	3	3	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	0.5	0.0	0.0	0.5	45	0.0	0.0	0.0	0.0	0.0			1.4	0.0	0.0	1.4	135
HaywardSidingC1RWProduction2024	RWProduction		2024																																												
HaywardSidingC1	Structures		2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	0.1	0.0	0.0	0.1	13	0.0	0.0	0.0	0.0	0.0			1.3	0.0	0.0	1.4	132
HaywardSidingC1	Structures		2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	0.2	0.0	0.0	0.2	21	0.0	0.0	0.0	0.0	0.0			2.1	0.0	0.0	2.1	207
HaywardSidingC1	Structures		2024	Wheel Loader	1	6	5	5	Rubber Tired Loaders	300	250	0.4	Diesel	22	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	1.7	1.1	0.1	0.1			0.0	0.2	0.0	0.0	0.2	22	0.0	0.0	0.0	0.0	0.0			1.1	0.0	0.0	1.1	111
HaywardSidingC1	Structures		2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.5	0.5	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.2	0.0	0.0	0.2	15
HaywardSidingC1	Structures		2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.5	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.3	0.0	0.0	0.3	27
HaywardSidingC1	Structures		2024	Rough Terrain F	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.3	0.6	0.1	0.1			0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0			0.5	0.0	0.0	0.5	46
HaywardSidingC1Sir2024	Sir		2024																																											
HaywardSidingE	Site Work		2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	0.3	0.0	0.0	0.3	32	0.0	0.0	0.0	0.0	0.0			8.3	0.0	0.0	8.3	811
HaywardSidingE	Site Work		2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	0.3

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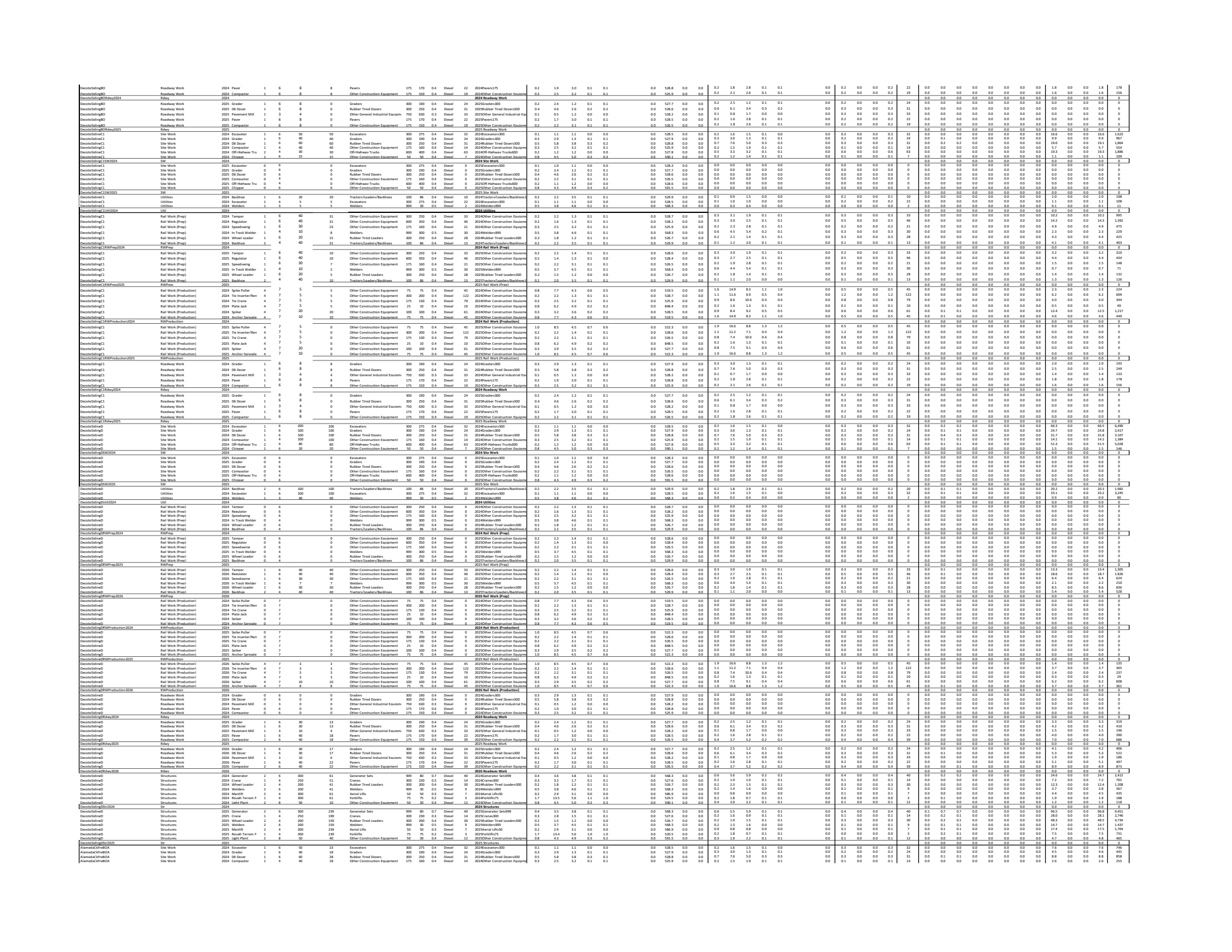

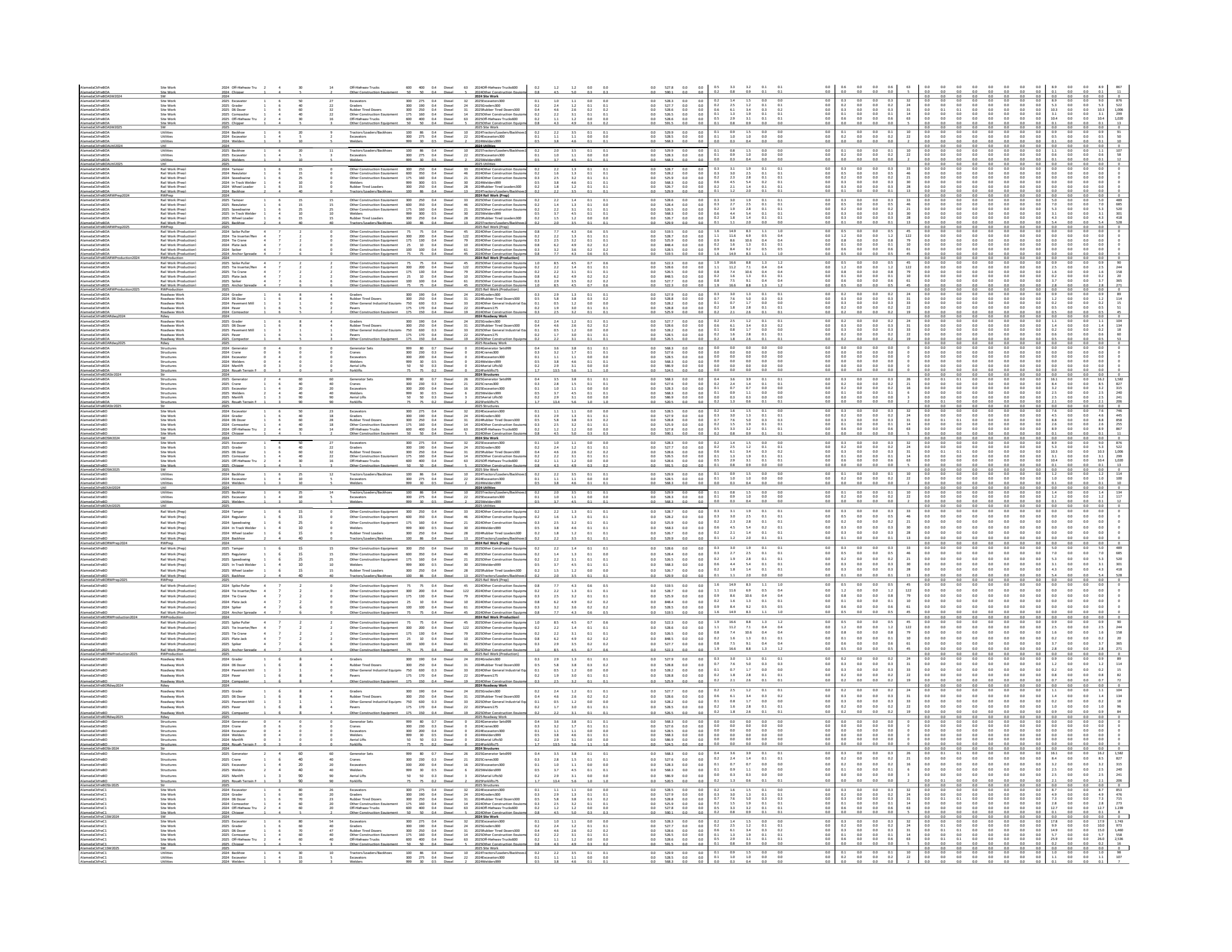

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Employee Onroad Calculations Location Offsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle	g/mi (EMFAC_AP 42)										Process g/trip (EMFAC)								Pounds per day								Metric tons per day					Gal per day
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	HaywardSidingBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingBOA	HaywardSidingBOAUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingBOA	HaywardSidingBOARWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingBOA	HaywardSidingBOARWProduction2(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingBOA	HaywardSidingBOASbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingBO	HaywardSidingBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingBO	HaywardSidingBOUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingBO	HaywardSidingBORWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingBO	HaywardSidingBORWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingBO	HaywardSidingBOSbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingC1	HaywardSidingC1SW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingC1	HaywardSidingC1Uti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingC1	HaywardSidingC1RWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingC1	HaywardSidingC1RWProduction2(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingC1	HaywardSidingC1Sbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
HaywardSidingD	HaywardSidingDSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	17
HaywardSidingD	HaywardSidingDUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	4
HaywardSidingD	HaywardSidingDRWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
HaywardSidingD	HaywardSidingDRWProduction202	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
HaywardSidingD	HaywardSidingDSbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBOA	IndustrialParkwayBOAUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
IndustrialParkwayBOA	IndustrialParkwayBOARWProductio	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBOA	IndustrialParkwayBOARdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayBOA	IndustrialParkwayBOASbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOASW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBOA	IndustrialParkwayBOAUti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	8
IndustrialParkwayBOA	IndustrialParkwayBOARWProduction	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBOA	IndustrialParkwayBOARdway2025	2025 Roadway Wo	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayBO	IndustrialParkwayBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBO	IndustrialParkwayBOUti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	9
IndustrialParkwayBO	IndustrialParkwayBORWProduction	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayBO	IndustrialParkwayBORdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayBO	IndustrialParkwayBOSbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBO	IndustrialParkwayBOUti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	8
IndustrialParkwayBO	IndustrialParkwayBORWProduction	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayBO	IndustrialParkwayBORdway2025	2025 Roadway Wo	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	12
IndustrialParkwayC1	IndustrialParkwayC1SW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	26
IndustrialParkwayC1	IndustrialParkwayC1Uti2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayC1	IndustrialParkwayC1RWPrep2024	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayC1	IndustrialParkwayC1RWProduction(	2024 Rail Work (Pr	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayC1	IndustrialParkwayC1Rdway2024	2024 Roadway Wo	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	13
IndustrialParkwayC1	IndustrialParkwayC1Sbi2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-IDT	Emmployee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
IndustrialParkwayC1	IndustrialParkwayC1SW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	25
IndustrialParkwayC1	IndustrialParkwayC1Uti2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	7
IndustrialParkwayC1	IndustrialParkwayC1RWPrep2025	2025 Rail Work (Pr	2025	SFBAAB	2025SFBAABLDA-IDT	Emmployee Auto	10	20	234

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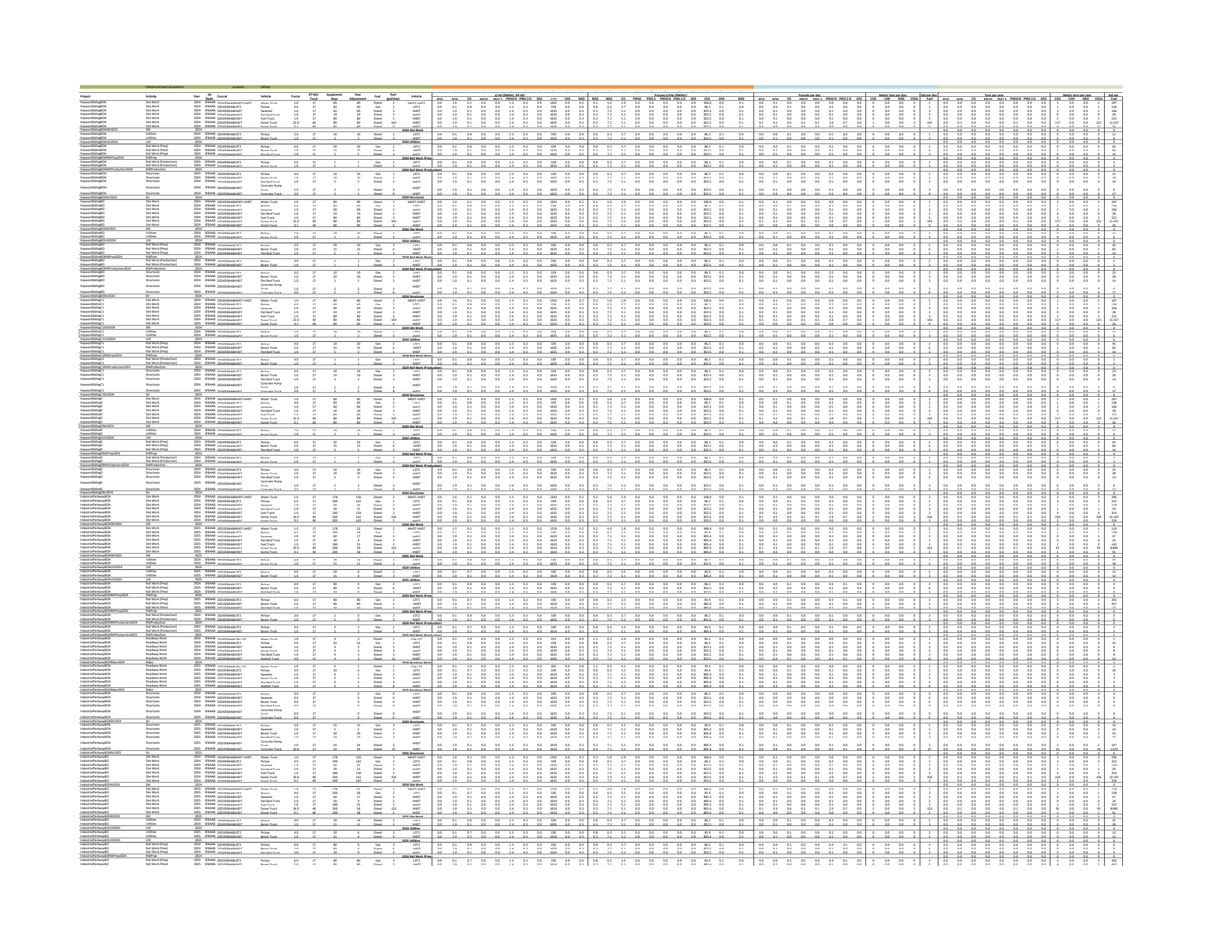
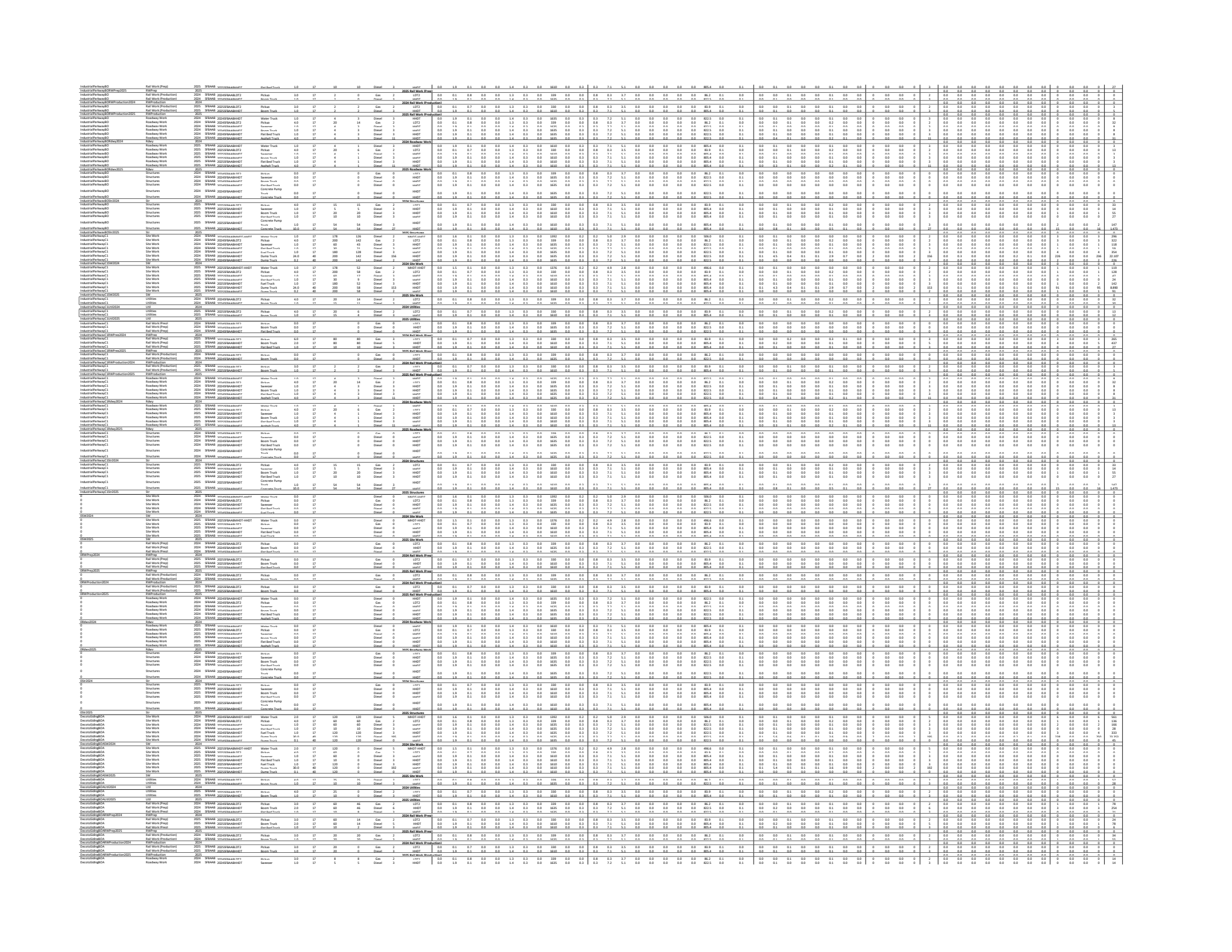
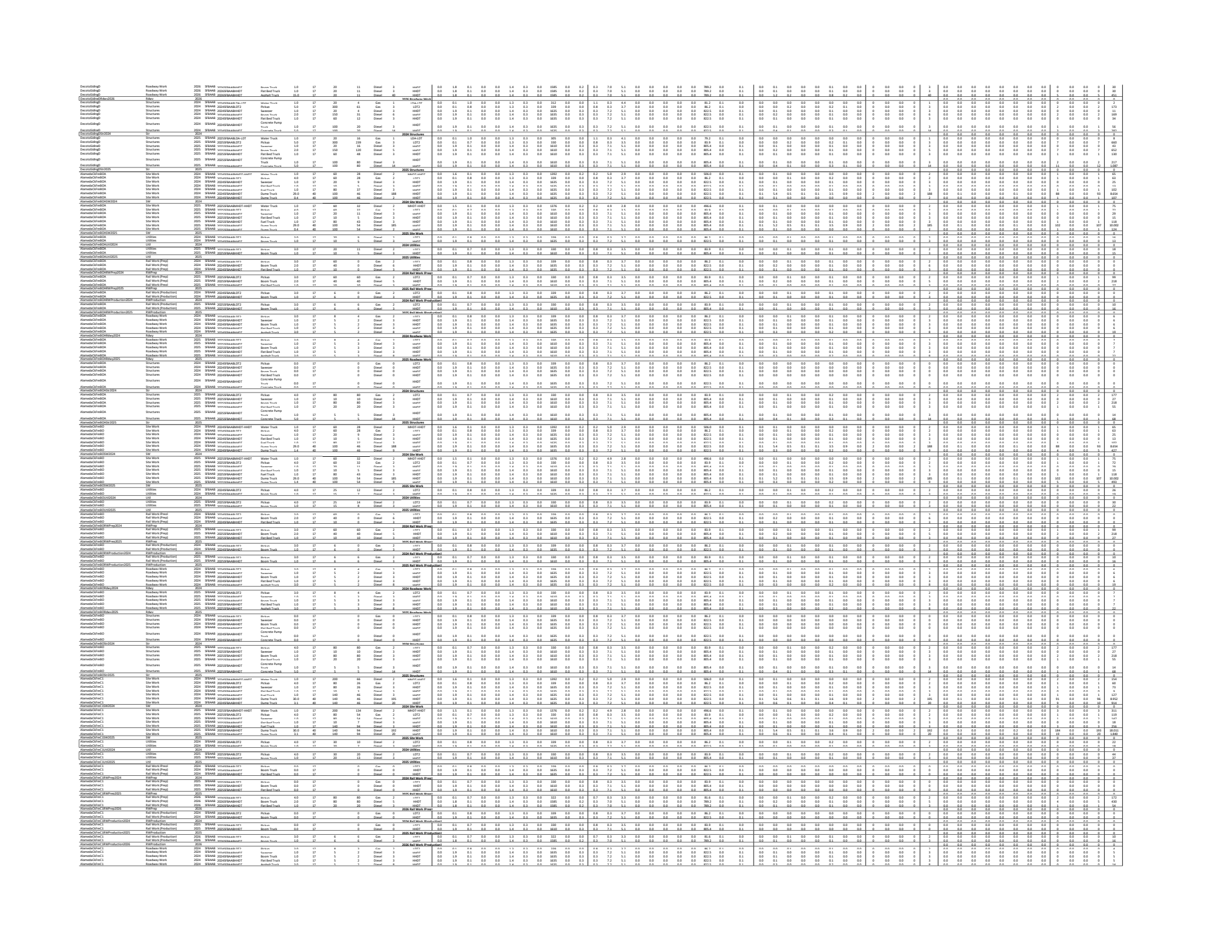






Locomotive Calculations | Location | Offsite and Onsite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day					Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingBOARWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingBORWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingC1RWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingDRWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
IndustrialParkwayBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	3	10	10	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	27.0	0.0	0.0	27.2	2,642
IndustrialParkwayBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	15	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	2.9	1.2	0.1	0.1	0.0	0.0	290.3	0.0	0.0	293.2	28,437
IndustrialParkwayBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
IndustrialParkwayBOARWPrep2025	RWPrep2025																						50.6	831.6	338.2	14.8	14.3	0.0	0.0	0.9	41.4	0.0	0.0	41.8	4,056	0.3	5.1	2.1	0.1	0.1	0.0	0.0	510.9	0.0	0.0	515.9	50,037
IndustrialParkwayBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	3	10	10	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	27.0	0.0	0.0	27.2	2,642
IndustrialParkwayBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	15	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	2.9	1.2	0.1	0.1	0.0	0.0	290.3	0.0	0.0	293.2	28,437
IndustrialParkwayBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
IndustrialParkwayBORWPrep2025	RWPrep2025																						50.6	831.6	338.2	14.8	14.3	0.0	0.0	0.9	41.4	0.0	0.0	41.8	4,056	0.3	5.1	2.1	0.1	0.1	0.0	0.0	510.9	0.0	0.0	515.9	50,037
IndustrialParkwayC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	3	10	10	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	27.0	0.0	0.0	27.2	2,642
IndustrialParkwayC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	15	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	2.9	1.2	0.1	0.1	0.0	0.0	290.3	0.0	0.0	293.2	28,437
IndustrialParkwayC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
IndustrialParkwayC1RWPrep2025	RWPrep2025																						50.6	831.6	338.2	14.8	14.3	0.0	0.0	0.9	41.4	0.0	0.0	41.8	4,056	0.3	5.1	2.1	0.1	0.1	0.0	0.0	510.9	0.0	0.0	515.9	50,037
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	8	6	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.2	0.1	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	2,149
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	6	5	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	0.9	0.4	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	8,673
DecotoSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	10	8	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.5	0.6	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	14,455
DecotoSidingBOARWPrep2024	RWPrep2024																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.2	2.6	1.1	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	25,278
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	4	8	2	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	669
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	6	1	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.3	0.1	0.0	0.0	0.0	0.0	27.9	0.0	0.0	27.9	2,702
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.5	0.2	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	4,503
DecotoSidingBORWPrep2025	RWPrep2025																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.0	0.8	0.3	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	7,873
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	8	6	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.2	0.1	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	2,149
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	6	5	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	0.9	0.4	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	8,673
DecotoSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	10	8	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.5	0.6	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	14,455
DecotoSidingBORWPrep2024	RWPrep2024																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.2	2.6	1.1	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	25,278
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	4	8	2	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	669
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	6	1	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.3	0.1	0.0	0.0	0.0	0.0	27.9	0.0	0.0	27.9	2,702
DecotoSidingBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.5	0.2	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	4,503
DecotoSidingBORWPrep2025	RWPrep2025																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.0	0.8	0.3	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	7,873
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	8	6	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.2	0.1	0.0	0.0	0.0	0.0	21.9	0.0	0.0	22.2	2,149
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	6	5	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	0.9	0.4	0.0	0.0	0.0	0.0	88.6	0.0	0.0	89.4	8,673
DecotoSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	10	8	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.5	0.6	0.0	0.0	0.0	0.0	147.6	0.0	0.0	149.0	14,455
DecotoSidingC1RWPrep2024	RWPrep2024																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.2	2.6	1.1	0.0	0.0	0.0	0.0	258.1	0.0	0.0	260.6	25,278
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	4	8	2	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.9	669
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	6	1	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.3	0.1	0.0	0.0	0.0	0.0	27.9	0.0	0.0	27.9	2,702
DecotoSidingC1	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.5	0.2	0.0	0.0	0.0	0.0	46.0	0.0	0.0	46.4	4,503
DecotoSidingC1RWPrep2025	RWPrep2025																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.0	0.8	0.3	0.0	0.0	0.0	0.0	80.4	0.0	0.0	81.2	7,873
DecotoSidingD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	4	12	0	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	10	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingDRWPrep2025	RWPrep2025																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	4	12	12	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.4	0.2	0.0	0.0	0.0	0.0	43.2	0.0	0.0	43.6	4,228
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
DecotoSidingD	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
DecotoSidingDRWPrep2026	RWPrep2026																						51.7	849.7	345.5	15.1	14.7	0.0	0.0	0.9	42.3	0.0	0.0	42.7	4,144	0.3	4.3	1.8	0.1	0.1	0.0	0.0	430.3	0.0	0.0	434.5	42,144
AlamedaCkFreBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	4	6	6	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.2	0.1	0.0	0.0	0.0	0.0	21.6	0.0	0.0	21.8	2,114
AlamedaCkFreBOA	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	4	4	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	0.8	0.3	0.0	0.0	0.0	0.0	77.4	0.0	0.0	78.2	7,583
AlamedaCkFreBOARWPrep2025	RWPrep2025																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.1	1.0	0.4	0.0	0.0	0.0	0.0	99.0	0.0	0.0	100.0	9,697
AlamedaCkFreBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	4	6	0	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
AlamedaCkFreBO	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	2	10	4	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9

Earth Moving Calculations Location Onsite

Code	Days	Grading (acres)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor						Pounds per day								Metric tons per day				Gal per day
					PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA																							
HaywardSidingBOASW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOAUtil	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOARWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBOARWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOAStr	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBO																							
HaywardSidingBOSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOUtil	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBORWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBORWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOStr	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1																							
HaywardSidingC1SW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingC1Util	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1RWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingC1RWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1Str	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingD																							
HaywardSidingDSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingDUtil	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDRWPrep	20	0.00	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingDRWProduction	1	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDStr	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOA																							
IndustrialParkwayBOASW	200	0.75	59,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOAUtil	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOARWPrep	80	0.00	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOARWProducti	2	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOAStr	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBO																							
IndustrialParkwayBOSW	200	0.75	59,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOUtil	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBORWPrep	80	0.00	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBORWProductio	2	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOStr	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1																							
IndustrialParkwayC1SW	200	0.75	59,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayC1Util	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1RWPrep	80	0.00	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1RWProductior	2	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1Str	20	0.00	0		1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
																0.0	0.0						
																0.0	0.0						
																0.0	0.0						
																0.0	0.0						
																0.0	0.0						
DecotoSidingBOA																							
DecotoSidingBOASW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOAUtil	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOARWPrep	80	0.00	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBOARWProduction	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOAStr	0	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBO																							
DecotoSidingBOSW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOUtil	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBORWPrep	80	0.00	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBORWProduction	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOStr	0	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1																							
DecotoSidingC1SW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingC1Util	120	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1RWPrep	80	0.00	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingC1RWProduction	20	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1Str	0	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingD																							
DecotoSidingDSW	200	0.75	179,823	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.7	2.5						
DecotoSidingDUtil	200	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDRWPrep	80	0.00	26,100	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingDRWProduction	10	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDStr	61	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOA																							
AlamedaCkFreBOASW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
AlamedaCkFreBOAUtil	100	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOARWPrep	80	0.00	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						

AlamedaCkFreBOARWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBOAStr	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBO															
AlamedaCkFreBOSW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4		4.6	2.5		
AlamedaCkFreBOUtil	100	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBORWPrep	80	0.00	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBORWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreBOStr	80	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreC1															
AlamedaCkFreC1SW	140	0.75	49,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4		4.6	2.5		
AlamedaCkFreC1RWPrep	80	0.00	17,250	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.1	0.0		
AlamedaCkFreC1RWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreC1Str	360	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreD															
AlamedaCkFreDSW	80	0.75	77,975	6	1.1	0.1145	0.0002	0.0000	0.8	0.4		4.8	2.5		
AlamedaCkFreDRWPrep	80	0.00	9,725	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreDRWProduction	6	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		
AlamedaCkFreDStr	300	0.00	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4		0.0	0.0		

Paving Calculations Location Onsite

Code	Days	Paved (sf)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
IndustrialParkwayBOA			2.6													
IndustrialParkwayBOASW	200	243,936	2.6	0.1												
IndustrialParkwayBOARW			2.6													
IndustrialParkwayBOAStr			2.6													
IndustrialParkwayBO			2.6													
IndustrialParkwayBOSW	200	243,936	2.6	0.1												
IndustrialParkwayBORW			2.6													
IndustrialParkwayBOStr			2.6													
IndustrialParkwayC1			2.6													
IndustrialParkwayC1SW	200	243,936	2.6	0.1												
IndustrialParkwayC1RW			2.6													
IndustrialParkwayC1Str			2.6													
DecotoSidingBOA			2.6													
DecotoSidingBOASW	120	8,712	2.6	0.0												
DecotoSidingBOARW			2.6													
DecotoSidingBOAStr			2.6													
DecotoSidingBO			2.6													
DecotoSidingBOSW	120	8,712	2.6	0.0												
DecotoSidingBORW			2.6													
DecotoSidingBOStr			2.6													
DecotoSidingC1			2.6													
DecotoSidingC1SW	120	8,712	2.6	0.0												
DecotoSidingC1RW			2.6													
DecotoSidingC1Str			2.6													
AlamedaCkFreBOA			2.6													
DecotoSidingD			2.6													
DecotoSidingDSW	200	365,904	2.6	0.1												
DecotoSidingDRW			2.6													
DecotoSidingDStr			2.6													
AlamedaCkFreBOA			2.6													
AlamedaCkFreBOASW	100	27,007	2.6	0.0												
AlamedaCkFreBOARW			2.6													
AlamedaCkFreBOAStr			2.6													
AlamedaCkFreBO			2.6													
AlamedaCkFreBOSW	100	27,007	2.6	0.0												
AlamedaCkFreBORW			2.6													
AlamedaCkFreBOStr			2.6													
AlamedaCkFreC1			2.6													
AlamedaCkFreC1SW	140	87,120	2.6	0.0												
AlamedaCkFreC1RW			2.6													
AlamedaCkFreC1Str			2.6													
AlamedaCkFreD			2.6													
AlamedaCkFreDSW	80	21,780	2.6	0.0												
AlamedaCkFreDRW			2.6													
AlamedaCkFreDStr			2.6													

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA			0.023	0.003													
HaywardSidingBOASW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBOARW			0.023	0.003													
HaywardSidingBOAStr			0.023	0.003													
HaywardSidingBO			0.023	0.003													
HaywardSidingBOSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBORW			0.023	0.003													
HaywardSidingBOStr			0.023	0.003													
HaywardSidingC1			0.023	0.003													
HaywardSidingC1SW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingC1RW			0.023	0.003													
HaywardSidingC1Str			0.023	0.003													
HaywardSidingD			0.023	0.003													
HaywardSidingDSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingDRW			0.023	0.003													
HaywardSidingDStr			0.023	0.003													
IndustrialParkwayBOA			0.023	0.003													
IndustrialParkwayBOAS	200	861	0.023	0.003						0.1	0.0						
IndustrialParkwayBOARW			0.023	0.003													
IndustrialParkwayBOAStr			0.023	0.003													
IndustrialParkwayBO			0.023	0.003													
IndustrialParkwayBOSW	200	861	0.023	0.003						0.1	0.0						
IndustrialParkwayBORW			0.023	0.003													
IndustrialParkwayBOStr			0.023	0.003													
IndustrialParkwayC1			0.023	0.003													
IndustrialParkwayC1SW	200	861	0.023	0.003						0.1	0.0						
IndustrialParkwayC1RW			0.023	0.003													
IndustrialParkwayC1Str			0.023	0.003													
IndustrialParkwayD			0.023	0.003													
IndustrialParkwayDSW			0.023	0.003													
IndustrialParkwayDRW			0.023	0.003													
IndustrialParkwayDStr			0.023	0.003													
DecotoSidingBOA			0.023	0.003													
DecotoSidingBOASW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBOARW			0.023	0.003													
DecotoSidingBOAStr			0.023	0.003													
DecotoSidingBO			0.023	0.003													
DecotoSidingBOSW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBORW			0.023	0.003													
DecotoSidingBOStr			0.023	0.003													
DecotoSidingC1			0.023	0.003													
DecotoSidingC1SW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingC1RW			0.023	0.003													
DecotoSidingC1Str			0.023	0.003													
DecotoSidingD			0.023	0.003													
DecotoSidingDSW	200	22,629	0.023	0.003						2.6	0.4						
DecotoSidingDRW			0.023	0.003													
DecotoSidingDStr			0.023	0.003													
AlamedaCkFreBOA			0.023	0.003													
AlamedaCkFreBOASW	100	632	0.023	0.003						0.1	0.0						
AlamedaCkFreBOARW			0.023	0.003													
AlamedaCkFreBOAStr			0.023	0.003													
AlamedaCkFreBO			0.023	0.003													
AlamedaCkFreBOSW	100	2,528	0.023	0.003						0.6	0.1						
AlamedaCkFreBORW			0.023	0.003													

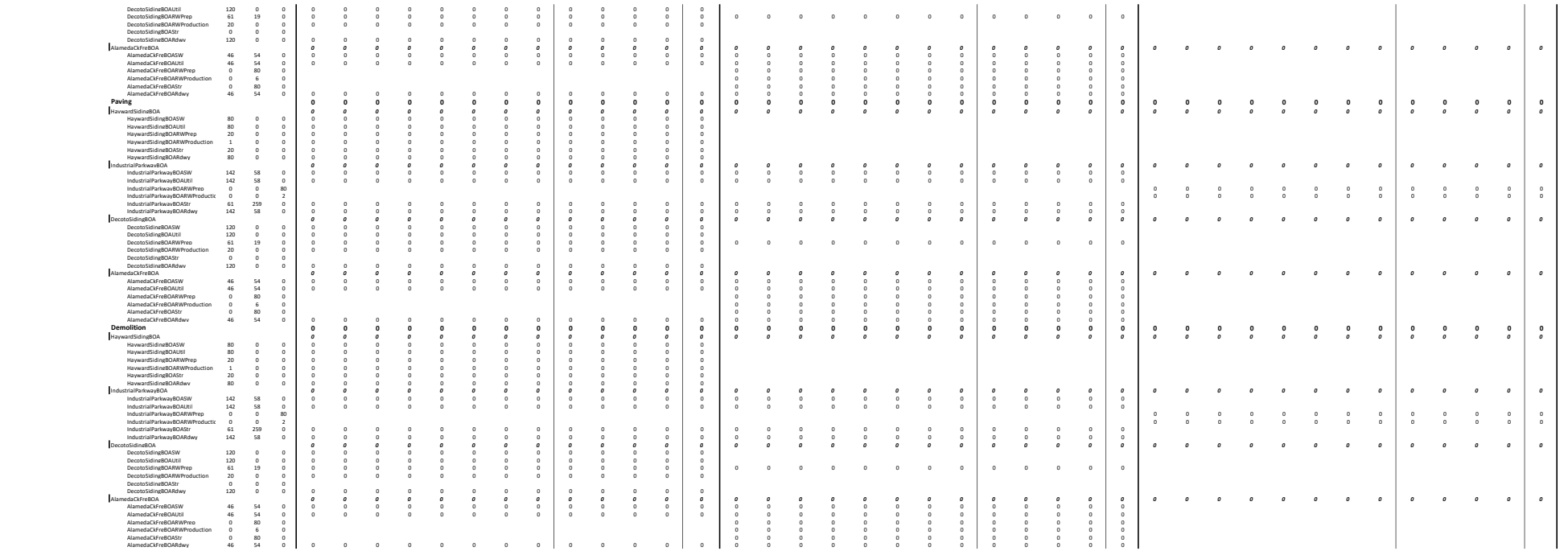
AlamedaCkFreBOStr			0.023	0.003					
AlamedaCkFreC1			0.023	0.003					
AlamedaCkFreC1SW	140	7,585	0.023	0.003		1.2	0.2		
AlamedaCkFreC1RW			0.023	0.003					
AlamedaCkFreC1Str			0.023	0.003					
AlamedaCkFreD			0.023	0.003					
AlamedaCkFreDSW	80	632	0.023	0.003		0.2	0.0		
AlamedaCkFreDRW			0.023	0.003					
AlamedaCkFreDStr			0.023	0.003					

Niles-Oakland Grade-Separated – Unmitigated Emissions Calculation Sheet

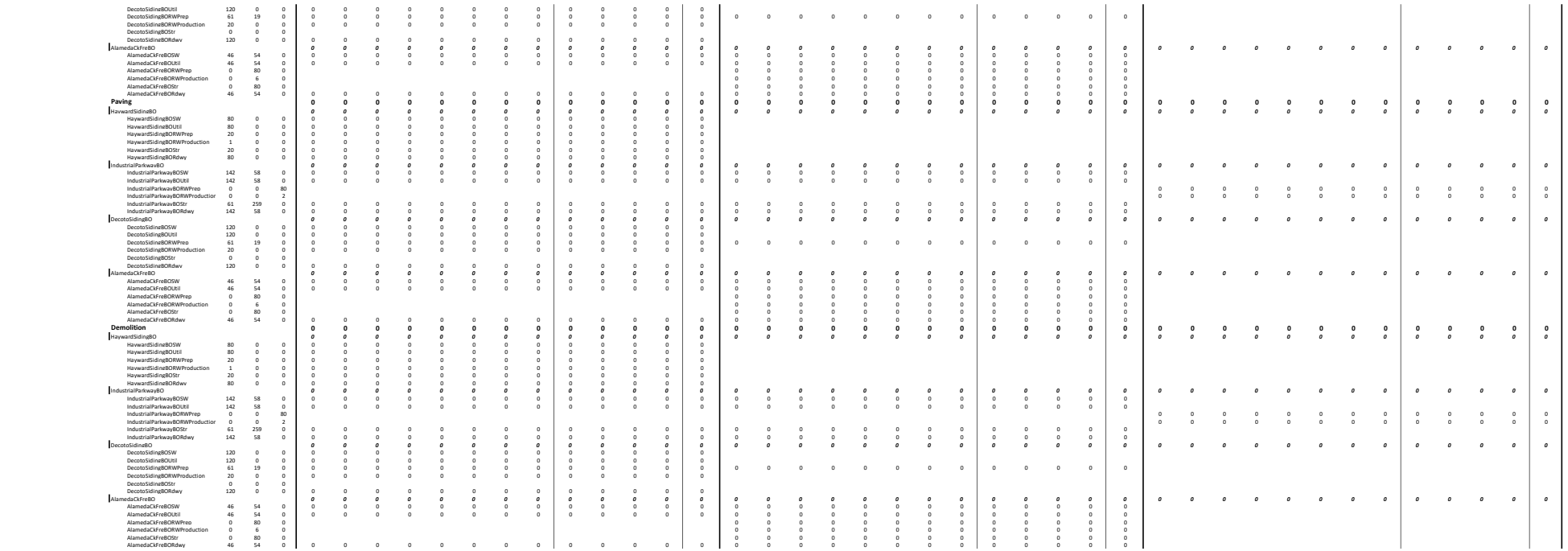
Code	Description	Start Date	Working Days	2024	2025	2026		End Date
HaywardSidingBOA	HAYWARD SIDING BOA							
HaywardSidingBOASW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOAUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBOARWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBOARWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOAStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBOARdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBO	HAYWARD SIDING BO						-	
HaywardSidingBOSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingBOUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingBORWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingBORWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingBOStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingBORdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1	HAYWARD SIDING C1						-	
HaywardSidingC1SW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingC1Util	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingC1RWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingC1RWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingC1Str	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingC1Rdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingD	HAYWARD SIDING D						-	
HaywardSidingDSW	Site Work	1/1/2024	80	80	0		-	4/22/2024
HaywardSidingDUtil	Utilities	1/1/2024	80	80	0			4/22/2024
HaywardSidingDRWPrep	Rail Work (Prep)	5/22/2024	20	20	0		-	6/19/2024
HaywardSidingDRWProduction	Rail Work (Production)	5/22/2024	1	1	0		-	5/23/2024
HaywardSidingDStr	Structures	4/23/2024	20	20	0		-	5/21/2024
HaywardSidingDRdwy	Roadway Work	1/1/2024	80	80	0		-	4/22/2024
IndustrialParkwayBOA	INDUSTRIAL PARKWAY BOA						-	
IndustrialParkwayBOASW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOAUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBOARWPrep	Rail Work (Prep)	1/2/2026	80	0	0	80	-	4/24/2026
IndustrialParkwayBOARWProduction	Rail Work (Production)	1/2/2026	2	0	0	2	-	1/6/2026
IndustrialParkwayBOAStr	Structures	10/8/2024	320	61	259		-	12/30/2025
IndustrialParkwayBOARdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBO	INDUSTRIAL PARKWAY BO						-	
IndustrialParkwayBOSW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayBOUtil	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayBORWPrep	Rail Work (Prep)	1/2/2026	80	0	0	80	-	4/24/2026
IndustrialParkwayBORWProduction	Rail Work (Production)	1/2/2026	2	0	0	2	-	1/6/2026
IndustrialParkwayBOStr	Structures	10/8/2024	320	61	259		-	12/30/2025
IndustrialParkwayBORdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1	INDUSTRIAL PARKWAY C1						-	
IndustrialParkwayC1SW	Site Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayC1Util	Utilities	6/17/2024	200	142	58			3/24/2025
IndustrialParkwayC1RWPrep	Rail Work (Prep)	1/2/2026	80	0	0	80	-	4/24/2026
IndustrialParkwayC1RWProduction	Rail Work (Production)	1/2/2026	2	0	0	2	-	1/6/2026
IndustrialParkwayC1Str	Structures	10/8/2024	320	61	259		-	12/30/2025
IndustrialParkwayC1Rdwy	Roadway Work	6/17/2024	200	142	58		-	3/24/2025
IndustrialParkwayD	INDUSTRIAL PARKWAY D						-	
IndustrialParkwayDSW	Site Work						-	
IndustrialParkwayDUtil	Utilities							
IndustrialParkwayDRWPrep	Rail Work (Prep)						-	
IndustrialParkwayDRWProduction	Rail Work (Production)						-	
IndustrialParkwayDStr	Structures						-	
IndustrialParkwayDRdwy	Roadway Work						-	
DecotoSidingBOA	DECOTO SIDING BOA						-	
DecotoSidingBOASW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOAUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBOARWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBOARWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOAStr	Structures	N/A	0	0	0		-	
DecotoSidingBOARdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBO	DECOTO SIDING BO						-	
DecotoSidingBOSW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingBOUtil	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingBORWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingBORWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingBOStr	Structures	N/A	0	0	0		-	
DecotoSidingBORdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1	DECOTO SIDING C1						-	
DecotoSidingC1SW	Site Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingC1Util	Utilities	4/23/2024	120	120	0			10/8/2024
DecotoSidingC1RWPrep	Rail Work (Prep)	10/8/2024	80	61	19		-	1/28/2025
DecotoSidingC1RWProduction	Rail Work (Production)	10/8/2024	20	20	0		-	11/5/2024
DecotoSidingC1Str	Structures	N/A	0	0	0		-	
DecotoSidingC1Rdwy	Roadway Work	4/23/2024	120	120	0		-	10/8/2024
DecotoSidingD	DECOTO SIDING D						-	
DecotoSidingDSW	Site Work	1/2/2024	200	200	0		-	10/8/2024
DecotoSidingDUtil	Utilities	1/2/2024	200	200	0			10/8/2024
DecotoSidingDRWPrep	Rail Work (Prep)	1/20/2026	80	0	0	80	-	5/12/2026
DecotoSidingDRWProduction	Rail Work (Production)	1/20/2026	10	0	0	10	-	2/3/2026
DecotoSidingDStr	Structures	10/8/2024	300	61	239		-	12/2/2025
DecotoSidingDRdwy	Roadway Work	12/2/2025	50	0	22	28	-	2/10/2026
AlamedaCkFreBOA	ALAMEDA CREEK TO FREMONT BOA						-	
AlamedaCkFreBOASW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOAUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBOARWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025
AlamedaCkFreBOARWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOAStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBOARdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBO	ALAMEDA CREEK TO FREMONT BO						-	
AlamedaCkFreBOSW	Site Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreBOUtil	Utilities	10/29/2024	100	46	54			3/18/2025
AlamedaCkFreBORWPrep	Rail Work (Prep)	7/8/2025	80	0	80		-	10/28/2025

AlamedaCkFreBORWProduction	Rail Work (Production)	7/8/2025	6	0	6		-	7/16/2025
AlamedaCkFreBOStr	Structures	3/18/2025	80	0	80		-	7/8/2025
AlamedaCkFreBORdwy	Roadway Work	10/29/2024	100	46	54		-	3/18/2025
AlamedaCkFreC1	ALAMEDA CREEK TO FREMONT C1						-	
AlamedaCkFreC1SW	Site Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreC1Util	Utilities	10/29/2024	140	46	94			5/13/2025
AlamedaCkFreC1RWPrep	Rail Work (Prep)	7/6/2026	80	0	0	80	-	10/26/2026
AlamedaCkFreC1RWProduction	Rail Work (Production)	7/6/2026	6	0	0	6	-	7/14/2026
AlamedaCkFreC1Str	Structures	2/18/2025	360	0	227	133	-	7/7/2026
AlamedaCkFreC1Rdwy	Roadway Work	10/29/2024	140	46	94		-	5/13/2025
AlamedaCkFreD	ALAMEDA CREEK TO FREMONT D						-	
AlamedaCkFreDSW	Site Work	3/19/2025	80	0	80		-	7/9/2025
AlamedaCkFreDUtil	Utilities	3/19/2025	80	0	80			7/9/2025
AlamedaCkFreDRWPrep	Rail Work (Prep)	7/9/2025	80	0	80		-	10/29/2025
AlamedaCkFreDRWProduction	Rail Work (Production)	7/9/2025	6	0	6		-	7/17/2025
AlamedaCkFreDStr	Structures	1/24/2024	300	245	55		-	3/19/2025
AlamedaCkFreDRdwy	Roadway Work	10/18/2025	15	0	15		-	11/7/2025

Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.0.A				**1**	**7**	**4**	**0**	**0**	**2**	**1**	**0**	**1,673**	**0**	**0**	**1,715**	**166,024**	**1**	**7**	**5**	**0**	**0**	**1**	**0**	**0**	**1,240**	**0**	**0**	**1,259**	**######**	**0**	**6**	**3**	**0**	**0**	**0**	**0**	**0**	**611**	**0**	**0**	**617**	**59,980**
Off-Road				**0**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**455**	**0**	**0**	**457**	**44,571**	**0**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**670**	**0**	**0**	**672**	**65,627**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**82**	**0**	**0**	**82**	**7,991**
HaywardSidineBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,671***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidineBOASW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidineBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidineBOAStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	6	538																									
HaywardSidineBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***196***	***0***	***0***	***196***	***19,164***	***0***	***4***	***4***	***0***	***0***	***0***	***0***	***0***	***537***	***0***	***0***	***539***	***52,625***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***82***	***0***	***0***	***82***	***7,991***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	65	0	0	65	6,369	0	0	0	0	0	0	0	0	27	0	0	27	2,602												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	11	0	0	11	1,056	0	0	0	0	0	0	0	0	4	0	0	4	431												
IndustrialParkwayBOARWPreo	0	0	80																											0	0	0	0	0	0	0	0	65	0	0	65	6,389
IndustrialParkwayBOARWProductio	0	0	2																											0	0	0	0	0	0	0	0	16	0	0	16	1,601
IndustrialParkwayBOAStr	61	259	0	0	1	1	0	0	0	0	0	119	0	0	120	11,676	0	3	3	0	0	0	0	0	506	0	0	508	49,566												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	63	0	0	0	0	0	0	0	0	0	0	0	0	26												
DecotoSidingBOA				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***15,089***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***1,221***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOASW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	7,002																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	318																									
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	3,919	0	0	0	0	0	0	0	0	12	0	0	13	1,221												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	2,942																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidineBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	908																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***3,648***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***120***	***0***	***0***	***121***	***11,781***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	3,182	0	0	0	0	0	0	0	0	38	0	0	38	3,737												
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	151	0	0	0	0	0	0	0	0	2	0	0	2	178												
AlamedaCkFreBOARWPrep	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	2,941												
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	1,146												
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	3,411												
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	314	0	0	0	0	0	0	0	0	4	0	0	4	369												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**136**	**15,302**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**90**	**0**	**0**	**91**	**10,220**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**0**	**0**	**6**	**700**
HaywardSidineBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidingBOARWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidineBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***6,405***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***51***	***0***	***0***	***51***	***5,787***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***6***	***700***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	3,625	0	0	0	0	0	0	0	0	13	0	0	13	1,447												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	967	0	0	0	0	0	0	0	0	3	0	0	3	386												
IndustrialParkwayBOARWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	651
IndustrialParkwayBOARWProductio	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	49
IndustrialParkwayBOAStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	29	3,231												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	1,813	0	0	0	0	0	0	0	0	6	0	0	6	724												
DecotoSidineBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,910***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***158***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOASW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	2,042																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	817																									
DecotoSidingBOARWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	519	0	0	0	0	0	0	0	0	1	0	0	1	158												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	511																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidineBOARdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	1,021																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***1,953***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***38***	***0***	***0***	***38***	***4,275***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898												
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	387	0	0	0	0	0	0	0	0	0	0	0	0	0												
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	998												
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	150												
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	1,331												
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**776**	**0**	**0**	**812**	**76,025**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**301**	**0**	**0**	**315**	**29,509**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**8**	**724**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidingBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingBOAStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***312***	***29,247***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***183***	***0***	***0***	***192***	***17,953***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***7***	***0***	***0***	***8***	***724***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	280	0	0	293	27,394	0	0	0	0	0	0	0	0	112	0	0	118	11,016												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	123	0	0	0	0	0	0	0	0	1	0	0	1	49												
IndustrialParkwayBOARWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	8	715
IndustrialParkwayBOARWProductio	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	9
IndustrialParkwayBOAStr	61	259	0	0	0	0	0	0	0	0	0	17	0	0	17	1,641	0	0	0	0	0	0	0	0	70	0	0	73	6,852												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	89	0	0	0	0	0	0	0	0	0	0	0	0	36												
DecotoSidineBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***25,245***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOASW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	24,622																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	84																									
DecotoSidingBOARWPrep	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	352	0	0	0	0	0	0	0	0	1	0	0	1	108												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	89																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidineBOARdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	97																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***93***	***0***	***0***	***97***	***9,101***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***117***	***0***	***0***	***122***	***11,448***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0	0	92	0	0	96	9,028	0	0	0	0	0	0	0	0	107	0	0	112	10,434												
AlamedaCkFreBOAUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	33												
AlamedaCkFreBOARWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	345												
AlamedaCkFreBOARWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	26												
AlamedaCkFreBOAStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	559												
AlamedaCkFreBOARdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	1	0	0	1	51												
Locomotive				**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**30,126**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**179**	**0**	**0**	**181**	**17,570**	**0**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**516**	**0**	**0**	**521**	**50,566**
HaywardSidingBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOASW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOAUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidineBOARWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidingBOARWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidineBOAStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOARdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***5***	***2***	***0***	***0***	***0***	***0***	***516***	***0***	***0***	***521***	***50,566***
IndustrialParkwayBOASW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOAUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOARWPreo	0	0	80																											0	5	2	0	0	0	0	0	516	0	0	521	50,566
IndustrialParkwayBOARWProductio	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	0
IndustrialParkwayBOAStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOARdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingBOA				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidineBOASW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOAUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOARWPrep	61	19	0	0	3	1	0	0	0	0	0	258	0	0	261	25,278	0	1	0	0	0	0	0	0	80	0	0	81	7,873												
DecotoSidingBOARWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOAStr	0	0	0																																						
DecotoSidineBOARdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreBOA				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***9,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOASW	46	54	0	0	0	0	0	0	0	0



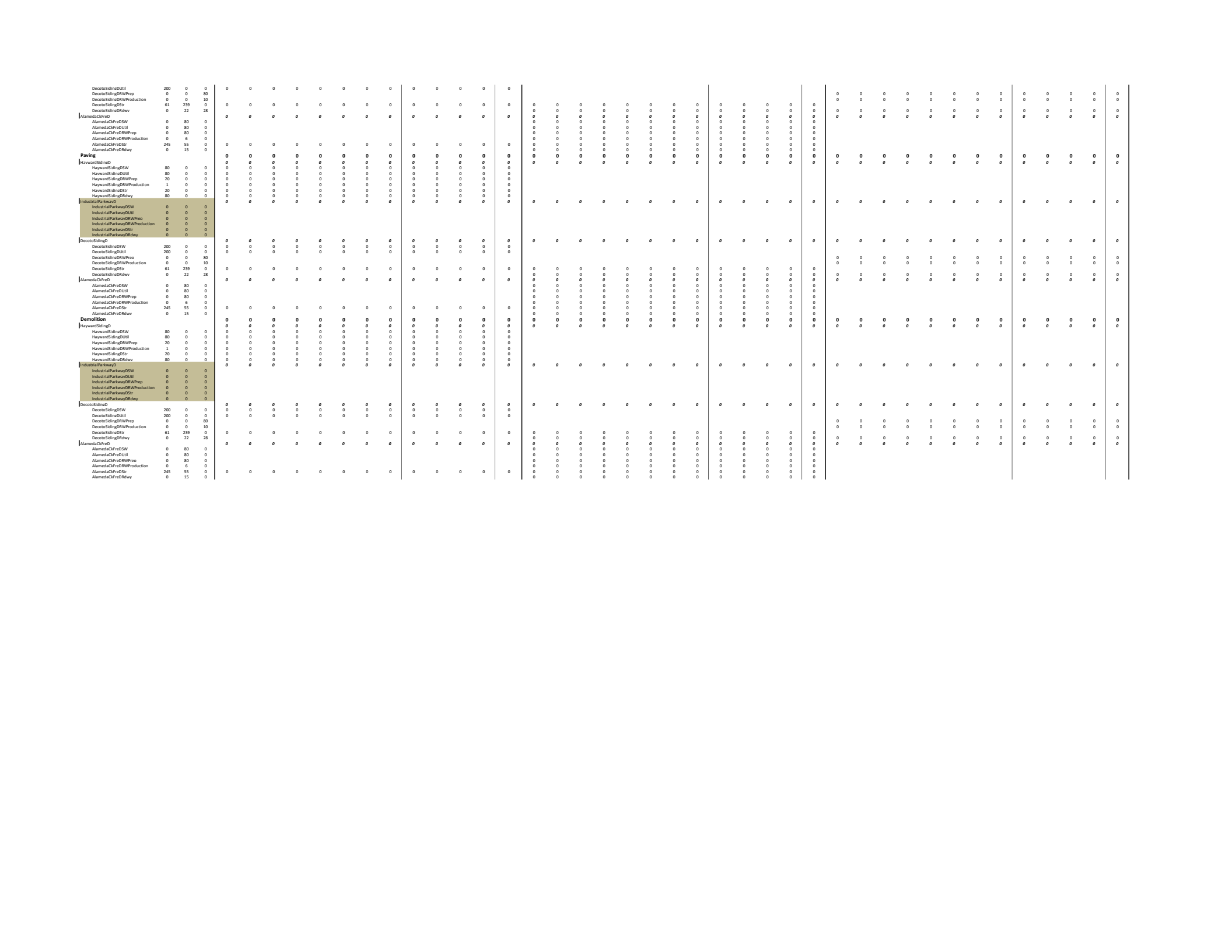
Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
B.O.				**1**	**7**	**4**	**0**	**0**	**2**	**1**	**0**	**1,676**	**0**	**0**	**1,718**	**166,270**	**1**	**7**	**5**	**0**	**0**	**1**	**0**	**0**	**1,250**	**0**	**0**	**1,269**	**123,896**	**0**	**6**	**3**	**0**	**0**	**0**	**0**	**0**	**611**	**0**	**0**	**617**	**59,980**
Off-Road				**0**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**458**	**0**	**0**	**459**	**44,836**	**0**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**672**	**0**	**0**	**675**	**65,849**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**82**	**0**	**0**	**82**	**7,991**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	501																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***197***	***0***	***0***	***198***	***19,335***	***0***	***4***	***4***	***0***	***0***	***0***	***0***	***0***	***538***	***0***	***0***	***540***	***52,695***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***82***	***0***	***0***	***82***	***7,991***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	67	0	0	67	6,541	0	0	0	0	0	0	0	0	27	0	0	27	2,673												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	11	0	0	11	1,056	0	0	0	0	0	0	0	0	4	0	0	4	431												
IndustrialParkwayBORWPreo	0	0	80																											0	0	0	0	0	0	0	0	65	0	0	65	6,389
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	16	0	0	16	1,601
IndustrialParkwayBOStr	61	259	0	0	1	1	0	0	0	0	0	119	0	0	120	11,676	0	3	3	0	0	0	0	0	506	0	0	508	49,566												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	63	0	0	0	0	0	0	0	0	0	0	0	0	26												
DecotoSidingBO				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***15,089***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***1,221***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOSW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	7,002																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	318																									
DecotoSidingBORWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	3,919	0	0	0	0	0	0	0	0	12	0	0	13	1,221												
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	2,942																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidingBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	908																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***39***	***0***	***0***	***39***	***3,778***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***122***	***0***	***0***	***122***	***11,934***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	32	0	0	33	3,182	0	0	0	0	0	0	0	0	38	0	0	38	3,737												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	2	0	0	2	224	0	0	0	0	0	0	0	0	3	0	0	3	263												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	30	0	0	30	2,941												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	12	0	0	12	1,146												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	35	0	0	35	3,411												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	4	0	0	4	372	0	0	0	0	0	0	0	0	4	0	0	4	436												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**135**	**15,228**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**93**	**0**	**0**	**94**	**10,579**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**0**	**0**	**6**	**700**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***6,405***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***51***	***0***	***0***	***51***	***5,787***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***6***	***700***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	3,625	0	0	0	0	0	0	0	0	13	0	0	13	1,447												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	967	0	0	0	0	0	0	0	0	3	0	0	3	386												
IndustrialParkwayBORWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	651
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	49
IndustrialParkwayBOStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	29	3,231												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	1,813	0	0	0	0	0	0	0	0	6	0	0	6	724												
DecotoSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,910***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***158***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOSW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	2,042																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	817																									
DecotoSidingBORWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	519	0	0	0	0	0	0	0	0	1	0	0	1	158												
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	511																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidingBORdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	1,021																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***16***	***0***	***0***	***17***	***1,879***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***4,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	3	0	0	3	313	0	0	0	0	0	0	0	0	3	0	0	3	359												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	998												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	1	0	0	1	150												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	12	0	0	12	1,331												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	8	0	0	8	898												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**777**	**0**	**0**	**813**	**76,080**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**305**	**0**	**0**	**319**	**29,897**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**8**	**724**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***312***	***29,247***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***183***	***0***	***0***	***192***	***17,953***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***7***	***0***	***0***	***8***	***724***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	280	0	0	293	27,394	0	0	0	0	0	0	0	0	112	0	0	118	11,016												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	123	0	0	0	0	0	0	0	0	1	0	0	1	49												
IndustrialParkwayBORWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	8	715
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	9
IndustrialParkwayBOStr	61	259	0	0	0	0	0	0	0	0	0	17	0	0	17	1,641	0	0	0	0	0	0	0	0	70	0	0	73	6,852												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	89	0	0	0	0	0	0	0	0	0	0	0	0	36												
DecotoSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***255***	***0***	***0***	***267***	***24,964***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOSW	120	0	0	0	0	0	0	0	0	0	0	249	0	0	260	24,341																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	84																									
DecotoSidingBORWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	352	0	0	0	0	0	0	0	0	1	0	0	1	108												
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	89																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidingBORdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	97																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***96***	***0***	***0***	***101***	***9,437***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***121***	***0***	***0***	***126***	***11,836***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	95	0	0	100	9,348	0	0	0	0	0	0	0	0	110	0	0	115	10,803												
AlamedaCkFreBOUtil	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	1	0	0	1	52												
AlamedaCkFreBORWPreo	0	80	0														0	0	0	0	0	0	0	0	4	0	0	4	345												
AlamedaCkFreBORWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	26												
AlamedaCkFreBOStr	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	559												
AlamedaCkFreBORdwy	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	1	0	0	1	51												
Locomotive				**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**30,126**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**179**	**0**	**0**	**181**	**17,570**	**0**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**516**	**0**	**0**	**521**	**50,566**
HaywardSidingBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingBOSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBORWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidingBORWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBOStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingBORdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayBO				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayBOSW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBOUtil	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBORWPreo	0	0	80																											0	5	2	0	0	0	0	0	516	0	0	521	50,566
IndustrialParkwayBORWProductior	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	0
IndustrialParkwayBOStr	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayBORdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingBO				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingBOSW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOUtil	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBORWPreo	61	19	0	0	3	1	0	0	0	0	0	258	0	0	261	25,278	0	1	0	0	0	0	0	0	80	0	0	81	7,873												
DecotoSidingBORWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingBOStr	0	0	0																																						
DecotoSidingBORdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreBO				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***9,697***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreBOSW	46	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					



Code	Working Days			2024												2025												2026											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
C.1.				**1**	**7**	**4**	**0**	**0**	**2**	**1**	**0**	**1,691**	**0**	**0**	**1,734**	**167,785**	**1**	**5**	**5**	**0**	**0**	**1**	**0**	**0**	**1,283**	**0**	**0**	**1,306**	**######**	**1**	**9**	**5**	**0**	**0**	**0**	**0**	**0**	**1,077**	**0**	**0**	**1,087**	**######**
Off-Road				**0**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**460**	**0**	**0**	**462**	**45,067**	**0**	**4**	**4**	**0**	**0**	**0**	**0**	**0**	**639**	**0**	**0**	**641**	**62,608**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**276**	**0**	**0**	**277**	**27,078**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidinaC1Str	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	501																									
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***197***	***0***	***0***	***198***	***19,335***	***0***	***4***	***4***	***0***	***0***	***0***	***0***	***0***	***538***	***0***	***0***	***540***	***52,695***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***82***	***0***	***0***	***82***	***7,991***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	67	0	0	67	6,541	0	0	0	0	0	0	0	0	27	0	0	27	2,673												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	11	0	0	11	1,056	0	0	0	0	0	0	0	0	4	0	0	4	431												
IndustrialParkwayC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	65	0	0	65	6,389
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	16	0	0	16	1,601
IndustrialParkwayC1Str	61	259	0	0	1	1	0	0	0	0	0	119	0	0	120	11,676	0	3	3	0	0	0	0	0	506	0	0	508	49,566												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	63	0	0	0	0	0	0	0	0	0	0	0	0	26												
DecotoSidingC1				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***154***	***0***	***0***	***155***	***15,089***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***12***	***0***	***0***	***13***	***1,221***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	71	0	0	72	7,002																									
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	3	0	0	3	318																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	40	0	0	40	3,919	0	0	0	0	0	0	0	0	12	0	0	13	1,221												
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	30	0	0	30	2,942																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	908																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***4,009***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***89***	***0***	***0***	***89***	***8,692***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***195***	***0***	***0***	***196***	***19,087***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	36	0	0	37	3,564	0	0	0	0	0	0	0	0	74	0	0	75	7,287												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	212	0	0	0	0	0	0	0	0	4	0	0	4	433												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	71	0	0	71	6,913
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	30	0	0	30	2,915
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	5	0	0	5	497									95	0	0	95	9,260
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	2	0	0	2	233	0	0	0	0	0	0	0	0	5	0	0	5	476												
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**134**	**0**	**0**	**136**	**15,306**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**145**	**0**	**0**	**0**	**146**	**16,462**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**49**	**0**	**0**	**50**	**5,610**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidinaC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidinaC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***56***	***0***	***0***	***57***	***6,405***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***51***	***0***	***0***	***51***	***5,787***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***6***	***0***	***0***	***6***	***700***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	32	0	0	32	3,625	0	0	0	0	0	0	0	0	13	0	0	13	1,447												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	8	0	0	9	967	0	0	0	0	0	0	0	0	3	0	0	3	386												
IndustrialParkwayC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	651
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	49
IndustrialParkwayC1Str	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0	0	29	3,231												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	16	0	0	16	1,813	0	0	0	0	0	0	0	0	6	0	0	6	724												
DecotoSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,910***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***158***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	18	0	0	18	2,042																									
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	7	0	0	7	817																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	5	0	0	5	519	0	0	0	0	0	0	0	0	1	0	0	1	158												
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	4	0	0	5	511																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	9	0	0	9	1,021																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***17***	***0***	***0***	***17***	***1,957***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***92***	***0***	***0***	***93***	***10,516***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***44***	***4,911***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	14	0	0	14	1,564												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	3	0	0	3	391	0	0	0	0	0	0	0	0	7	0	0	7	782												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	9	0	0	9	976
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	1	0	0	1	146
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	58	0	0	59	6,608									33	0	0	34	3,788
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	7	0	0	7	783	0	0	0	0	0	0	0	0	14	0	0	14	1,564												
Off-Site On-Road				**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**789**	**0**	**0**	**826**	**77,285**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**419**	**0**	**0**	**437**	**40,998**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**27**	**0**	**0**	**27**	**2,607**
HaywardSidingC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidinaC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingC1Str	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***312***	***29,247***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***183***	***0***	***0***	***192***	***17,953***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***7***	***0***	***0***	***8***	***724***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	280	0	0	293	27,394	0	0	0	0	0	0	0	0	112	0	0	118	11,016												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	123	0	0	0	0	0	0	0	0	1	0	0	1	49												
IndustrialParkwayC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	8	715
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	9
IndustrialParkwayC1Str	61	259	0	0	0	0	0	0	0	0	0	17	0	0	17	1,641	0	0	0	0	0	0	0	0	70	0	0	73	6,852												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	1	0	0	1	89	0	0	0	0	0	0	0	0	0	0	0	0	36												
DecotoSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***270***	***25,245***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***1***	***108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	251	0	0	263	24,622																									
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	84																									
DecotoSidingC1RWPreo	61	19	0	0	0	0	0	0	0	0	0	4	0	0	4	352	0	0	0	0	0	0	0	0	1	0	0	1	108												
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	89																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	1	0	0	1	97																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***106***	***0***	***0***	***111***	***10,361***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***234***	***0***	***0***	***245***	***22,937***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***19***	***0***	***0***	***20***	***1,883***
AlamedaCkFreC1SW	46	94	0	0	0	0	0	0	0	0	0	105	0	0	110	10,289	0	0	0	0	0	0	0	0	211	0	0	221	20,701												
AlamedaCkFreC1Util	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	1	0	0	1	81												
AlamedaCkFreC1RWPreo	0	0	80																											0	0	0	0	0	0	0	0	7	0	0	7	656
AlamedaCkFreC1RWProduction	0	0	6																											0	0	0	0	0	0	0	0	0	0	0	0	26
AlamedaCkFreC1Str	0	227	133														0	0	0	0	0	0	0	0	21	0	0	22	2,091									12	0	0	13	1,202
AlamedaCkFreC1Rdwy	46	94	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	1	0	0	1	64												
Locomotive				**0**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**308**	**0**	**0**	**311**	**30,126**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**80**	**0**	**0**	**81**	**7,873**	**0**	**7**	**3**	**0**	**0**	**0**	**0**	**0**	**725**	**0**	**0**	**732**	**71,016**
HaywardSidinaC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidinaC1SW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaC1Util	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaC1RWPreo	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidinaC1RWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaC1Str	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidinaC1Rdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***5***	***2***	***0***	***0***	***0***	***0***	***0***	***516***	***0***	***0***	***521***	***50,566***
IndustrialParkwayC1SW	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Util	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1RWPreo	0	0	80																											0	5	2	0	0	0	0	0	516	0	0	521	50,566
IndustrialParkwayC1RWProduction	0	0	2																											0	0	0	0	0	0	0	0	0	0	0	0	0
IndustrialParkwayC1Str	61	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
IndustrialParkwayC1Rdwy	142	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0												
DecotoSidingC1				***0***	***3***	***1***	***0***	***0***	***0***	***0***	***0***	***258***	***0***	***0***	***261***	***25,278***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***80***	***0***	***0***	***81***	***7,873***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidinaC1SW	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidinaC1Util	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1RWPreo	61	19	0	0	3	1	0	0	0	0	0	258	0	0	261	25,278	0	1	0	0	0	0	0	0	80	0	0	81	7,873												
DecotoSidinaC1RWProduction	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
DecotoSidingC1Str	0	0	0																																						
DecotoSidinaC1Rdwy	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
AlamedaCkFreC1				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***	***1***	***0***	***0***	***0***	***0***

| | | |

Code	Working Days			2024											2025												2026										
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/yr
	2024	2025	2026	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
D				**0**	**6**	**4**	**0**	**0**	**2**	**1**	**0**	**2,043**	**0**	**0**	**2,103**	**201,148**	**0**	**4**	**3**	**0**	**0**	**1**	**0**	**0**	**804**	**0**	**0**	**816**	**79,750**	**0**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**552**	**0**	**0**	**557**	**54,262**
Off-Road				**0**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**695**	**0**	**0**	**697**	**68,041**	**0**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**436**	**0**	**0**	**437**	**42,698**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**97**	**0**	**0**	**98**	**9,548**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***68***	***0***	***0***	***68***	***6,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	40	0	0	40	3,936																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	1	0	0	1	104																									
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	16	0	0	16	1,521																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	6	0	0	6	572																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	5	0	0	5	501																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																				
IndustrialParkwayDUtil	0	0	0																																				
IndustrialParkwayDRWPrep	0	0	0																																				
IndustrialParkwayDRWProduction	0	0	0																																				
IndustrialParkwayDStr	0	0	0																																				
IndustrialParkwayDRdwy	0	0	0																																				
DecotoSidingD				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***299***	***0***	***0***	***300***	***29,320***	***0***	***2***	***1***	***0***	***0***	***0***	***0***	***0***	***237***	***0***	***0***	***238***	***23,219***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***97***	***0***	***0***	***98***	***9,548***
DecotoSidingDSW	200	0	0	0	1	1	0	0	0	0	0	190	0	0	190	18,573																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	54	0	0	54	5,317																									
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	54	0	0	55	5,329
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	18	0	0	18	1,735
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	55	0	0	56	5,429	0	1	1	0	0	0	0	0	217	0	0	218	21,267											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	20	0	0	20	1,952	0	0	0	0	0	0	0	0	25	0	0	25	2,484
AlamedaCkFreD				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***328***	***0***	***0***	***329***	***32,087***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***199***	***0***	***0***	***200***	***19,480***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	71	0	0	72	6,985												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	2	0	0	2	153												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	44	0	0	44	4,301												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	7	0	0	7	665												
AlamedaCkFreDStr	245	55	0	0	1	1	0	0	0	0	0	328	0	0	329	32,087	0	0	0	0	0	0	0	0	74	0	0	74	7,203												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	2	0	0	2	172												
Employee				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**67**	**0**	**0**	**68**	**7,668**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**62**	**0**	**0**	**63**	**7,106**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**11**	**0**	**0**	**11**	**1,237**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***18***	***0***	***0***	***18***	***2,034***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	12	0	0	12	1,362																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	3	0	0	3	340																									
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	170																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	136																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																				
IndustrialParkwayDUtil	0	0	0																																				
IndustrialParkwayDRWPrep	0	0	0																																				
IndustrialParkwayDRWProduction	0	0	0																																				
IndustrialParkwayDStr	0	0	0																																				
IndustrialParkwayDRdwy	0	0	0																																				
DecotoSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***49***	***0***	***0***	***50***	***5,634***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***38***	***4,250***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***11***	***0***	***0***	***11***	***1,237***
DecotoSidingDSW	200	0	0	0	0	0	0	0	0	0	0	30	0	0	30	3,404																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	10	0	0	11	1,191																									
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	651
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	2	0	0	2	244
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	9	0	0	9	1,038	0	0	0	0	0	0	0	0	35	0	0	35	3,975											
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	2	0	0	2	274	0	0	0	0	0	0	0	0	3	0	0	3	342
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***25***	***0***	***0***	***25***	***2,857***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	6	0	0	6	665												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	3	0	0	3	333												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	9	0	0	9	998												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	50												
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	686												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	1	0	0	1	125												
Off-Site On-Road				**0**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**1231**	**0**	**0**	**1288**	**120,591**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**185**	**0**	**0**	**193**	**18,135**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**0**	**0**	**14**	**1,334**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***127***	***0***	***0***	***133***	***12,432***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	124	0	0	130	12,182																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17																									
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	1	0	0	2	142																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	1	0	0	1	86																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																				
IndustrialParkwayDUtil	0	0	0																																				
IndustrialParkwayDRWPrep	0	0	0																																				
IndustrialParkwayDRWProduction	0	0	0																																				
IndustrialParkwayDStr	0	0	0																																				
IndustrialParkwayDRdwy	0	0	0																																				
DecotoSidingD				***0***	***2***	***0***	***0***	***0***	***1***	***0***	***0***	***1,083***	***0***	***0***	***1,133***	***106,024***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***34***	***0***	***0***	***36***	***3,351***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***1,334***
DecotoSidingDSW	200	0	0	0	2	0	0	0	1	0	0	1,071	0	0	1,120	104,850																									
DecotoSidingDUtil	200	0	0	0	0	0	0	0	0	0	0	5	0	0	5	447																									
DecotoSidingDRWPrep	0	0	80																											0	0	0	0	0	0	0	0	6	0	0	6	599
DecotoSidingDRWProduction	0	0	10																											0	0	0	0	0	0	0	0	0	0	0	0	43
DecotoSidingDStr	61	239	0	0	0	0	0	0	0	0	0	7	0	0	8	727	0	0	0	0	0	0	0	0	29	0	0	30	2,798												
DecotoSidingDRdwy	0	22	28														0	0	0	0	0	0	0	0	6	0	0	6	553	0	0	0	0	0	0	0	0	7	0	0	7	692
AlamedaCkFreD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***22***	***0***	***0***	***23***	***2,135***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***151***	***0***	***0***	***158***	***14,784***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
AlamedaCkFreDSW	0	80	0														0	0	0	0	0	0	0	0	140	0	0	147	13,739												
AlamedaCkFreDUtil	0	80	0														0	0	0	0	0	0	0	0	0	0	0	0	16												
AlamedaCkFreDRWPrep	0	80	0														0	0	0	0	0	0	0	0	5	0	0	5	487												
AlamedaCkFreDRWProduction	0	6	0														0	0	0	0	0	0	0	0	0	0	0	0	26												
AlamedaCkFreDStr	245	55	0	0	0	0	0	0	0	0	0	22	0	0	23	2,135	0	0	0	0	0	0	0	0	5	0	0	5	471												
AlamedaCkFreDRdwy	0	15	0														0	0	0	0	0	0	0	0	0	0	0	0	44												
Locomotive				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**50**	**0**	**0**	**50**	**4,848**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**121**	**0**	**0**	**122**	**11,811**	**0**	**4**	**2**	**0**	**0**	**0**	**0**	**0**	**430**	**0**	**0**	**435**	**42,144**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***50***	***0***	***0***	***50***	***4,848***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	50	0	0	50	4,848																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																				
IndustrialParkwayDUtil	0	0	0																																				
IndustrialParkwayDRWPrep	0	0	0																																				
IndustrialParkwayDRWProduction	0	0	0																																				
IndustrialParkwayDStr	0	0	0																																				
IndustrialParkwayDRdwy	0	0	0																																				
Grading				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
HaywardSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
HaywardSidingDSW	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDUtil	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRWPrep	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRWProduction	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDStr	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
HaywardSidingDRdwy	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									
IndustrialParkwayD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
IndustrialParkwayDSW	0	0	0																																				
IndustrialParkwayDUtil	0	0	0																																				
IndustrialParkwayDRWPrep	0	0	0																																				
IndustrialParkwayDRWProduction	0	0	0																																				
IndustrialParkwayDStr	0	0	0																																				
IndustrialParkwayDRdwy	0	0	0																																				
DecotoSidingD				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
DecotoSidingDSW	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																									



Location Onsite

Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalEEMod)								Pounds per day								Metric tons per day								Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3	811
2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	5.0	483
2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	31	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	9.6	932
2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	415
2024	Off-Highway Tru	2	4	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	12.9	1,257
2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.2	1.2	1.4	0.1	0.1			0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	36
2024												2024 Site Work																																							0
2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	99
2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.3	0.4	0.0	0.0			0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
2024												2024 Utilities																																							0
2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	326
2024	Reeulator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.0	2.5	0.1	0.1			0.0	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.7	456
2024	Speedswing	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	208
2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.6	4.5	5.4	0.2	0.1			0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	120
2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	2.1	1.4	0.1	0.1			0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.9	279
2024	Backhoe	2	4	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	132
2024												2024 Rail Work (Prep)																																							0
2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	45
2024	Tie Inserter/Rem	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	122
2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	8.0	79
2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	111
2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.1	0.5	0.5	0.0	0.0			0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	15
2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.3	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	27
2024	Rough Terrain Fo	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.3	0.6	0.1	0.1			0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	46
2024												2024 Structures																																							0
2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3	811
2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	5.0	483
2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0.4	Diesel	31	2024Rubber Tired Dozers300	0.5	5.8	3.8	0.3	0.2			0.0	528.8	0.0	0.0	0.7	7.6	5.0	0.3	0.3			0.0	31	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	9.6	932
2024	Compactor	1	4	30	30	Other Construction Equipment	175	160	0.4	Diesel	14	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	1.5	1.9	0.1	0.1			0.0	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	415
2024	Off-Highway Tru	2	4	20	20	Off-Highway Trucks	600	400	0.4	Diesel	63	2024Off-Highway Trucks600	0.2	1.2	1.2	0.0	0.0			0.0	527.8	0.0	0.0	0.5	3.3	3.2	0.1	0.1			0.0	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	12.9	1,257
2024	Chipper	1	6	5	5	Other Construction Equipment	50	50	0.4	Diesel	7	2024Other Construction Equipme	0.8	4.5	5.0	0.3	0.3			0.0	590.1	0.0	0.0	0.2	1.2	1.4	0.1	0.1			0.0	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	36
2024												2024 Site Work																																							0
2024	Backhoe	1	6	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	10	2024Tractors/Loaders/Backhoes	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	0.9	1.5	0.0	0.0			0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	99
2024	Welders	1	3	2	2	Welders	999	30	0.5	Diesel	2	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.0	0.3	0.4	0.0	0.0			0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
2024												2024 Utilities																																							0
2024	Tamper	1	6	10	10	Other Construction Equipment	300	250	0.4	Diesel	33	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	0.3	3.1	1.9	0.1	0.1			0.0	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	326
2024	Reeulator	1	6	10	10	Other Construction Equipment	600	350	0.4	Diesel	46	2024Other Construction Equipme	0.2	1.6	1.3	0.1	0.1			0.0	528.2	0.0	0.0	0.3	3.0	2.5	0.1	0.1			0.0	46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	4.7	456
2024	Speedswing	1	6	10	10	Other Construction Equipment	175	160	0.4	Diesel	21	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.2	2.3	2.8	0.1	0.1			0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	208
2024	In Track Welder	1	4	4	4	Welders	999	300	0.5	Diesel	30	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.6	4.5	5.4	0.2	0.1			0.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	120
2024	Wheel Loader	1	6	10	10	Rubber Tired Loaders	300	250	0.4	Diesel	28	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.2	2.1	1.4	0.1	0.1			0.0	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.9	279
2024	Backhoe	2	4	10	10	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	13	2024Tractors/Loaders/Backhoes	0.2	2.2	3.5	0.1	0.1			0.0	529.9	0.0	0.0	0.1	1.2	2.0	0.1	0.1			0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	132
2024												2024 Rail Work (Prep)																																							0
2024	Spike Puller	4	7	1	1	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	45
2024	Tie Inserter/Rem	4	7	1	1	Other Construction Equipment	300	200	0.4	Diesel	122	2024Other Construction Equipme	0.2	2.2	1.3	0.1	0.1			0.0	528.7	0.0	0.0	1.1	11.6	6.9	0.5	0.4			0.0	122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	122
2024	Tie Crane	4	7	1	1	Other Construction Equipment	175	130	0.4	Diesel	79	2024Other Construction Equipme	0.3	2.5	3.2	0.1	0.1			0.0	525.9	0.0	0.0	0.9	8.6	10.6	0.4	0.4			0.0	79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	8.0	79
2024	Plate Jack	4	7	1	1	Other Construction Equipment	25	10	0.4	Diesel	10	2024Other Construction Equipme	0.8	6.2	4.9	0.2	0.2			0.0	848.4	0.0	0.0	0.2	1.6	1.3	0.1	0.1			0.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	111
2024	Spiker	4	7	3	3	Other Construction Equipment	100	100	0.4	Diesel	61	2024Other Construction Equipme	0.3	3.2	3.6	0.2	0.2			0.0	528.5	0.0	0.0	0.9	8.4	9.2	0.5	0.5			0.0	61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	1.9	183
2024	Anchor Spreader	4	7	3	3	Other Construction Equipment	75	75	0.4	Diesel	45	2024Other Construction Equipme	0.8	7.7	4.3	0.6	0.5			0.0	519.5	0.0	0.0	1.6	14.9	8.3	1.1	1.0			0.0	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	45
2024												2024 Rail Work (Production)																																								0
2024	Generator	1	4	10	10	Generator Sets	999	80	0.7	Diesel	13	2024Generator Sets999	0.4	3.6	3.8	0.1	0.1			0.0	568.3	0.0	0.0	0.2	1.9	2.0	0.1	0.1			0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.4	132
2024	Crane	1	6	10	10	Cranes	300	230	0.3	Diesel	21	2024Cranes300	0.3	3.2	1.7	0.1	0.1			0.0	527.6	0.0	0.0	0.3	2.8	1.5	0.1	0.1			0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	207
2024	Wheel Loader	1	4	5	5	Rubber Tired Loaders	300	200	0.4	Diesel	15	2024Rubber Tired Loaders300	0.2	1.8	1.2	0.1	0.1			0.0	526.7	0.0	0.0	0.1	1.1	0.7	0.0	0.0			0.0	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	74
2024	Welders	1	4	5	5	Welders	999	30	0.5	Diesel	3	2024Welders999	0.5	3.8	4.6	0.1	0.1			0.0	568.3	0.0	0.0	0.1	0.5	0.5	0.0	0.0			0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	15
2024	Manlift	1	3	10	10	Aerial Lifts	50	50	0.3	Diesel	3	2024Aerial Lifts50	0.2	2.9	3.1	0.0	0.0			0.0	586.9	0.0	0.0	0.0	0.3	0.3	0.0	0.0			0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	27
2024	Rough Terrain Fo	1	3	20	20	Forklifts	75	75	0.2	Diesel	2	2024Forklifts75	1.7	13.5	5.6	1.1	1.0			0.0	524.5	0.0	0.0	0.2	1.3	0.6	0.1	0.1			0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	46
2024												2024 Structures																																							0
2024	Excavator	1	6	25	25	Excavators	300	275	0.4	Diesel	32	2024Excavators300	0.1	1.1	1.1	0.0	0.0			0.0	528.5	0.0	0.0	0.2	1.6	1.5	0.1	0.0			0.0	32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	8.3	811
2024	Grader	1	6	20	20	Graders	300	190	0.4	Diesel	24	2024Graders300	0.3	2.9	1.3	0.1	0.1			0.0	527.9	0.0	0.0	0.3	3.0	1.3	0.1	0.1			0.0	24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	5.0	483
2024	D6 Dozer	1	6	30	30	Rubber Tired Dozers	300	250	0

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Employee Onroad Calculations Location Onsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	Mi/Day	Fuel	Fuel (gal/day)	Vehicle	g/mi (EMFAC, AP 42)																Process g/trip (EMFAC)												Pounds per day												Metric tons per day					Gal per day
													2	3	4	5	7	6	8	9	10	11	12	13	14	15	16	18	17	19	20	21	22	23																							
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2	CH4	N2O	COze	Fuel
HaywardSidingBOA	HaywardSidingBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	0	17
HaywardSidingBOA	HaywardSidingBOAUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	0	4
HaywardSidingBOA	HaywardSidingBOARWPrep2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	0	9
HaywardSidingBOA	HaywardSidingBOARWProduction202	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	26
HaywardSidingBOA	HaywardSidingBOAStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
HaywardSidingBO	HaywardSidingBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	0	17
HaywardSidingBO	HaywardSidingBOUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	0	4
HaywardSidingBO	HaywardSidingBORWPrep2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	0	9
HaywardSidingBO	HaywardSidingBORWProduction2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	26
HaywardSidingBO	HaywardSidingBOStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
HaywardSidingC1	HaywardSidingC1SW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	0	17
HaywardSidingC1	HaywardSidingC1Util2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	0	4
HaywardSidingC1	HaywardSidingC1RWPrep2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	0	9
HaywardSidingC1	HaywardSidingC1RWProduction2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	26
HaywardSidingC1	HaywardSidingC1Str2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
HaywardSidingD	HaywardSidingDSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	17	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.5	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0	0	17
HaywardSidingD	HaywardSidingDUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.3	0.1	0.0	0	0.0	0.0	0	0	4
HaywardSidingD	HaywardSidingDRWPrep2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	9	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	0	9
HaywardSidingD	HaywardSidingDRWProduction2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	26
HaywardSidingD	HaywardSidingDStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOASW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	26
IndustrialParkwayBOA	IndustrialParkwayBOAUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWProduction	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARdwy2024	2024 Roadway Wor	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	0	13
IndustrialParkwayBOA	IndustrialParkwayBOAStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOASW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	25
IndustrialParkwayBOA	IndustrialParkwayBOAUtil2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2025	2025 Rail Work (Pre	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWProduction	2025 Rail Work (Pre	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARdwy2025	2025 Roadway Wor	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	0	12
IndustrialParkwayBOA	IndustrialParkwayBOAStr2025	2025 Structures	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	0	12
IndustrialParkwayBOA	IndustrialParkwayBOASW2026	2026 Site Work	2026	SFBAAB	2026SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOAUtil2026	2026 Utilities	2026	SFBAAB	2026SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOARWPrep2026	2026 Rail Work (Pre	2026	SFBAAB	2026SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.1	0.1	0.6	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0	0	8
IndustrialParkwayBOA	IndustrialParkwayBOARWProduction	2026 Rail Work (Pre	2026	SFBAAB	2026SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	24	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.2	0.2	1.9	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	24
IndustrialParkwayBOA	IndustrialParkwayBOARdwy2026	2026 Roadway Wor	2026	SFBAAB	2026SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBOA	IndustrialParkwayBOAStr2026	2026 Structures	2026	SFBAAB	2026SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	0.9	0.0	0.0	1.3	0.3	0.0	299	0.0	0.0	1.0	0.3	3.9	0.0	0.0	0.0	0.0	0.0	77.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2024	2024 Site Work	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	26	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.2	0.2	2.2	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	26
IndustrialParkwayBO	IndustrialParkwayBOUtil2024	2024 Utilities	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2024	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBO	IndustrialParkwayBORWProduction2	2024 Rail Work (Pre	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBO	IndustrialParkwayBORdwy2024	2024 Roadway Wor	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	13	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	0	13
IndustrialParkwayBO	IndustrialParkwayBOStr2024	2024 Structures	2024	SFBAAB	2024SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	312	0.0	0.0	1.1	0.3	4.4	0.0	0.0	0.0	0.0	0.0	81.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBO	IndustrialParkwayBOSW2025	2025 Site Work	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	25	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.2	0.2	2.0	0.0	0.0	1.9	0.5	0.0	0	0.0	0.0	0	0	25
IndustrialParkwayBO	IndustrialParkwayBOUtil2025	2025 Utilities	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	8	16	187	Gas	7	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.1	0.0	0	0.0	0.0	0	0	7
IndustrialParkwayBO	IndustrialParkwayBORWPrep2025	2025 Rail Work (Pre	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBO	IndustrialParkwayBO2025	2025 Rail Work (Pre	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0	0
IndustrialParkwayBO	IndustrialParkwayBORdwy2025	2025 Roadway Wor	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3	0.3	0.0	305	0.0	0.0	1.1	0.3	4.1	0.0	0.0	0.0	0.0	0.0	79.2	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0	0	12
IndustrialParkwayBO	IndustrialParkwayBOStr2025	2025 Structures	2025	SFBAAB	2025SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT	0.0	0.1	1.0	0.0	0.0	1.3

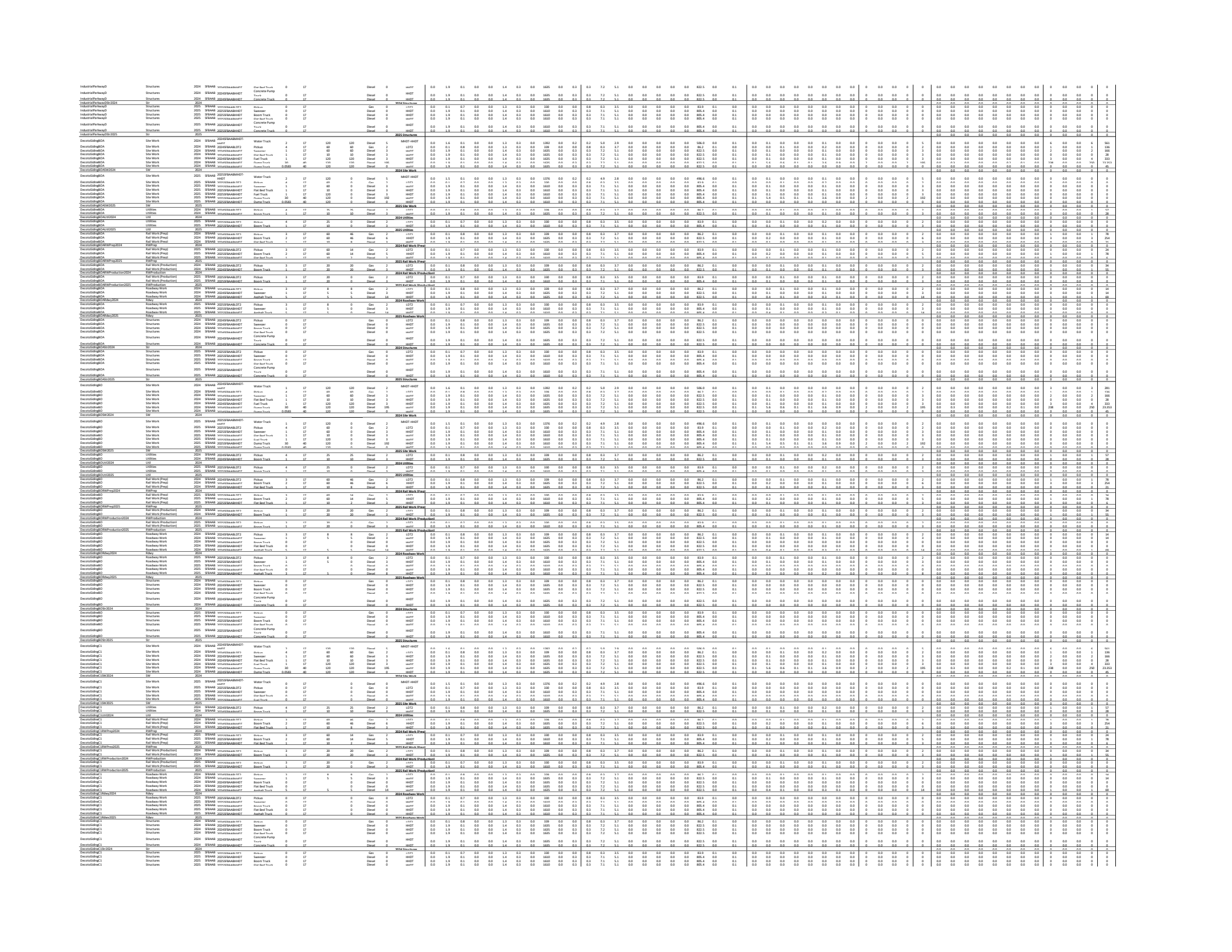
Offsite Onroad Calculations | Location: Offsite

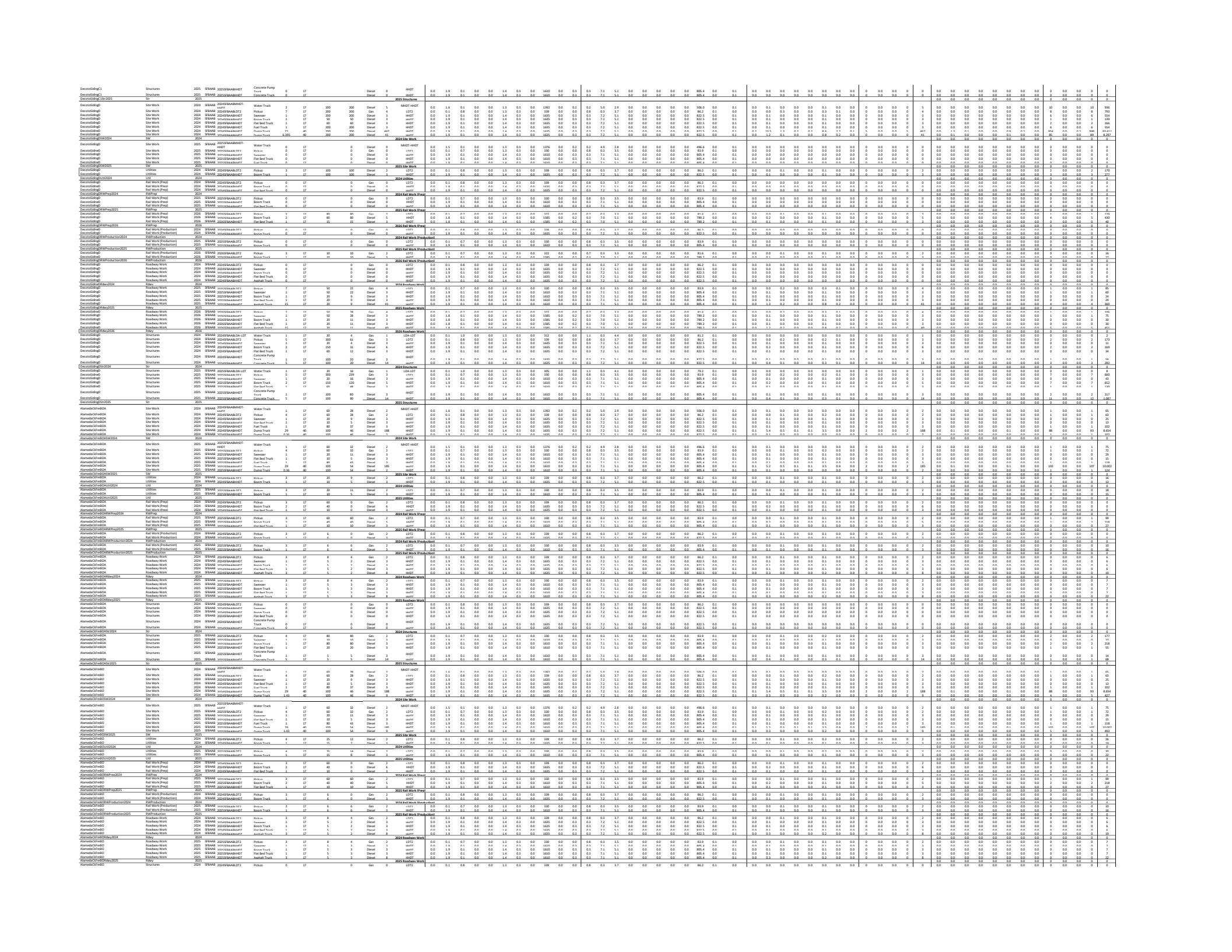
Project	Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT MU/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	80	80	Diesel	2	MHDT-HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	60	60	Gas	2	LDT2
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	60	60	Diesel	3	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	3	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	80	80	Diesel	3	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	22	40	80	80	Diesel	143	HHDT
HaywardSlidingBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.05	40	80	80	Diesel	0	HHDT
HaywardSlidingBOASW2024	SW	2024										**2024 Site Work**
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOAUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	20	20	Gas	2	LDT2
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	2	17	15	15	Diesel	6	HHDT
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBOARWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABLDT2	Pickup	3	17	1	1	Gas	2	LDT2
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	3	3	Diesel	3	HHDT
HaywardSlidingBOARWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	10	10	Gas	2	LDT2
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	65	65	Diesel	3	HHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOASW2024	SW	2024										**2024 Site Work**
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBOA	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOAUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	20	Gas	2	LHDT1
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	2	17	15	15	Diesel	6	MHDT
HaywardSlidingBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	MHDT
HaywardSlidingBOARWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	1	1	Gas	2	LHDT1
HaywardSlidingBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	3	3	Diesel	3	MHDT
HaywardSlidingBOARWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	10	10	Diesel	3	MHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBOA	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOASW2024	Str	2024										**2024 Structures**
HaywardSlidingBOA	Site Work	2024	SFBAAB	2025SFBAABHDT-WaterTruck	Water Truck	1	17	80	80	Diesel	2	MHDT-HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	60	60	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	80	80	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	22	40	80	80	Diesel	143	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.05	40	80	80	Diesel	0	HHDT
HaywardSlidingBOSW2024	SW	2024										**2024 Site Work**
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	20	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	2	17	15	15	Diesel	6	MHDT
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	MHDT
HaywardSlidingBORWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	1	1	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	3	3	Diesel	3	MHDT
HaywardSlidingBORWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	10	10	Diesel	3	MHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOSW2024	Str	2024										**2024 Structures**
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	80	80	Diesel	2	MHDT-HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	60	60	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	10	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	80	80	Diesel	3	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	22	40	80	80	Diesel	143	HHDT
HaywardSlidingBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.05	40	80	80	Diesel	0	HHDT
HaywardSlidingBOSW2024	SW	2024										**2024 Site Work**
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	2	17	10	10	Diesel	1	LDT2
HaywardSlidingBO	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	HHDT
HaywardSlidingBOUtil2024	Util	2024										**2024 Utilities**
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	20	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	2	17	15	15	Diesel	6	MHDT
HaywardSlidingBO	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	MHDT
HaywardSlidingBORWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	1	1	Gas	2	LHDT1
HaywardSlidingBO	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	3	3	Diesel	3	MHDT
HaywardSlidingBORWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	65	65	Gas	3	LHDT1
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Boom Truck	1	17	10	10	Diesel	3	MHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Flat Bed Truck	1	17	5	5	Diesel	3	HHDT
HaywardSlidingBO	Structures	2024	SFBAAB	2024SFBAABHDT-RWTruck	Concrete Pump Truck	1	17	2	2	Diesel	8	HHDT
HaywardSlidingBOSW2024	Str	2024										**2024 Structures**
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	200	142	Diesel	2	MHDT-HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	200	142	Gas	2	LDT2
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	150	107	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	10	21	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	180	128	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	28	40	200	142	Diesel	182	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.26	40	200	142	Diesel	2	HHDT
IndustrialParkwayBOASW2024	SW	2024										**2024 Site Work**
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT-WaterTruck	Water Truck	1	17	200	58	Diesel	2	MHDT-HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABLDT2	Pickup	4	17	200	58	Gas	2	LDT2
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Sweeper	1	17	150	44	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Flat Bed Truck	1	17	10	9	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Fuel Truck	1	17	180	52	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	28	40	200	58	Diesel	179	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	0.26	40	200	58	Diesel	2	HHDT
IndustrialParkwayBOASW2025	SW	2025										**2025 Site Work**
IndustrialParkwayBOA	Utilities	2024	SFBAAB	2024SFBAABLDT2	Pickup	4	17	40	28	Diesel	2	LDT2
IndustrialParkwayBOA	Utilities	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	35	71	Diesel	3	HHDT
IndustrialParkwayBOAUtil2024	Util	2024										**2024 Utilities**
IndustrialParkwayBOA	Utilities	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	4	17	65	17	Diesel	3	HHDT
IndustrialParkwayBOA	Utilities	2025	SFBAAB	2025SFBAABHDT	Boom Truck	1	17	35	9	Diesel	3	HHDT
IndustrialParkwayBOAUtil2025	Util	2025										**2025 Utilities**
IndustrialParkwayBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	0	17	80	0	Gas	0	HHDT
IndustrialParkwayBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	0	17	80	0	Diesel	0	HHDT
IndustrialParkwayBOA	Rail Work (Prep)	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	0	17	10	0	Diesel	0	HHDT
IndustrialParkwayBOARWPrep2024	RWPrep	2024										**2024 Rail Work (Prep)**
IndustrialParkwayBOA	Rail Work (Prep)	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	0	17	80	0	Gas	0	LHDT1
IndustrialParkwayBOA	Rail Work (Prep)	2025	SFBAAB	2025SFBAABHDT	Boom Truck	0	17	80	0	Diesel	0	MHDT
IndustrialParkwayBOA	Rail Work (Prep)	2025	SFBAAB	2025SFBAABHDT	Flat Bed Truck	0	17	10	0	Diesel	0	MHDT
IndustrialParkwayBOARWPrep2025	RWPrep	2025										**2025 Rail Work (Prep)**
IndustrialParkwayBOA	Rail Work (Prep)	2026	SFBAAB	2026SFBAABHDT-RWTruck	Bobcat	6	17	80	80	Gas	3	LHDT1
IndustrialParkwayBOA	Rail Work (Prep)	2026	SFBAAB	2026SFBAABHDT	Boom Truck	2	17	80	80	Diesel	5	MHDT
IndustrialParkwayBOA	Rail Work (Prep)	2026	SFBAAB	2026SFBAABHDT	Flat Bed Truck	1	17	95	95	Diesel	3	MHDT
IndustrialParkwayBOARWPrep2026	RWPrep	2026										**2026 Rail Work (Prep)**
IndustrialParkwayBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABLDT2	Boom Truck	3	17	2	0	Gas	2	LDT2
IndustrialParkwayBOA	Rail Work (Production)	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	2	0	Diesel	3	HHDT
IndustrialParkwayBOARWProduction2024	RWProduction	2024										**2024 Rail Work (Production)**
IndustrialParkwayBOA	Rail Work (Production)	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	3	17	2	0	Gas	2	LHDT1
IndustrialParkwayBOA	Rail Work (Production)	2025	SFBAAB	2025SFBAABHDT	Boom Truck	1	17	2	0	Diesel	3	MHDT
IndustrialParkwayBOARWProduction2025	RWProduction	2025										**2025 Rail Work (Production)**
IndustrialParkwayBOA	Rail Work (Production)	2026	SFBAAB	2026SFBAABHDT-RWTruck	Bobcat	3	17	2	2	Gas	2	LHDT1
IndustrialParkwayBOA	Rail Work (Production)	2026	SFBAAB	2026SFBAABHDT	Boom Truck	1	17	2	2	Diesel	3	MHDT
IndustrialParkwayBOARWProduction2026	RWProduction	2026										**2026 Rail Work (Production)**
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT-RWTruck	Water Truck	1	17	4	5	Diesel	1	HHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT-RWTruck	Bobcat	4	17	20	14	Gas	2	LHDT1
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	4	3	Diesel	3	MHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Boom Truck	1	17	4	3	Diesel	3	MHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	1	17	4	3	Diesel	3	HHDT
IndustrialParkwayBOA	Roadway Work	2024	SFBAAB	2024SFBAABHDT	Asphalt Truck	4	17	4	3	Diesel	11	HHDT
IndustrialParkwayBOARoadway2024	Roadway	2024										**2024 Roadway Work**
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT-RWTruck	Water Truck	1	17	4	3	Diesel	1	HHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT-RWTruck	Bobcat	4	17	20	6	Gas	2	LHDT1
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Sweeper	1	17	4	1	Diesel	3	MHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Boom Truck	1	17	4	1	Diesel	3	HHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	1	17	4	1	Diesel	3	HHDT
IndustrialParkwayBOA	Roadway Work	2025	SFBAAB	2025SFBAABHDT	Asphalt Truck	4	17	4	1	Diesel	11	HHDT
IndustrialParkwayBOARoadway2025	Rdwy	2025										**2025 Roadway Work**
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	335	61	Diesel	1	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABLDT2	Pickup	5	17	300	57	Gas	3	LHDT1
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	320	61	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	2	17	300	57	Diesel	6	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	350	48	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Concrete Truck	1	17	80	15	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Concrete Truck	10	17	80	15	Diesel	28	HHDT
IndustrialParkwayBOA	Site Work	2024	SFBAAB	2024SFBAABHDT	Bulk Cement Truck (for LCCF)	3	17	230	44	Diesel	8	HHDT
IndustrialParkwayBOASW2024	Str	2024										**2024 Structures**
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT-WaterTruck	Water Truck	1	17	320	259	Diesel	1	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABLDT2	Pickup	5	17	300	243	Gas	3	LDT2
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Sweeper	1	17	335	906	Diesel	3	MHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Boom Truck	2	17	300	243	Diesel	5	MHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Dump Truck	2	17	300	243	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Concrete Pump Truck	1	17	80	65	Diesel	3	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Concrete Truck	10	17	80	65	Diesel	28	HHDT
IndustrialParkwayBOA	Site Work	2025	SFBAAB	2025SFBAABHDT	Bulk Cement Truck (for LCCF)	3	17	230	186	Diesel	8	HHDT
IndustrialParkwayBOASW2025	Str	2025										**2025 Structures**
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT-WaterTruck	Water Truck	1	17	200	142	Diesel	2	MHDT-HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT-Bobcat	Bobcat	4	17	390	143	Gas	3	LHDT1
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Sweeper	1	17	150	107	Diesel	3	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Flat Bed Truck	1	17	30	21	Diesel	3	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Fuel Truck	1	17	180	128	Diesel	3	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	28	40	200	142	Diesel	182	HHDT
IndustrialParkwayBO	Site Work	2024	SFBAAB	2024SFBAABHDT	Dump Truck	0.26	40	200	142	Diesel	2	HHDT
IndustrialParkwayBOSW2024	SW	2024										**2024 Site Work**

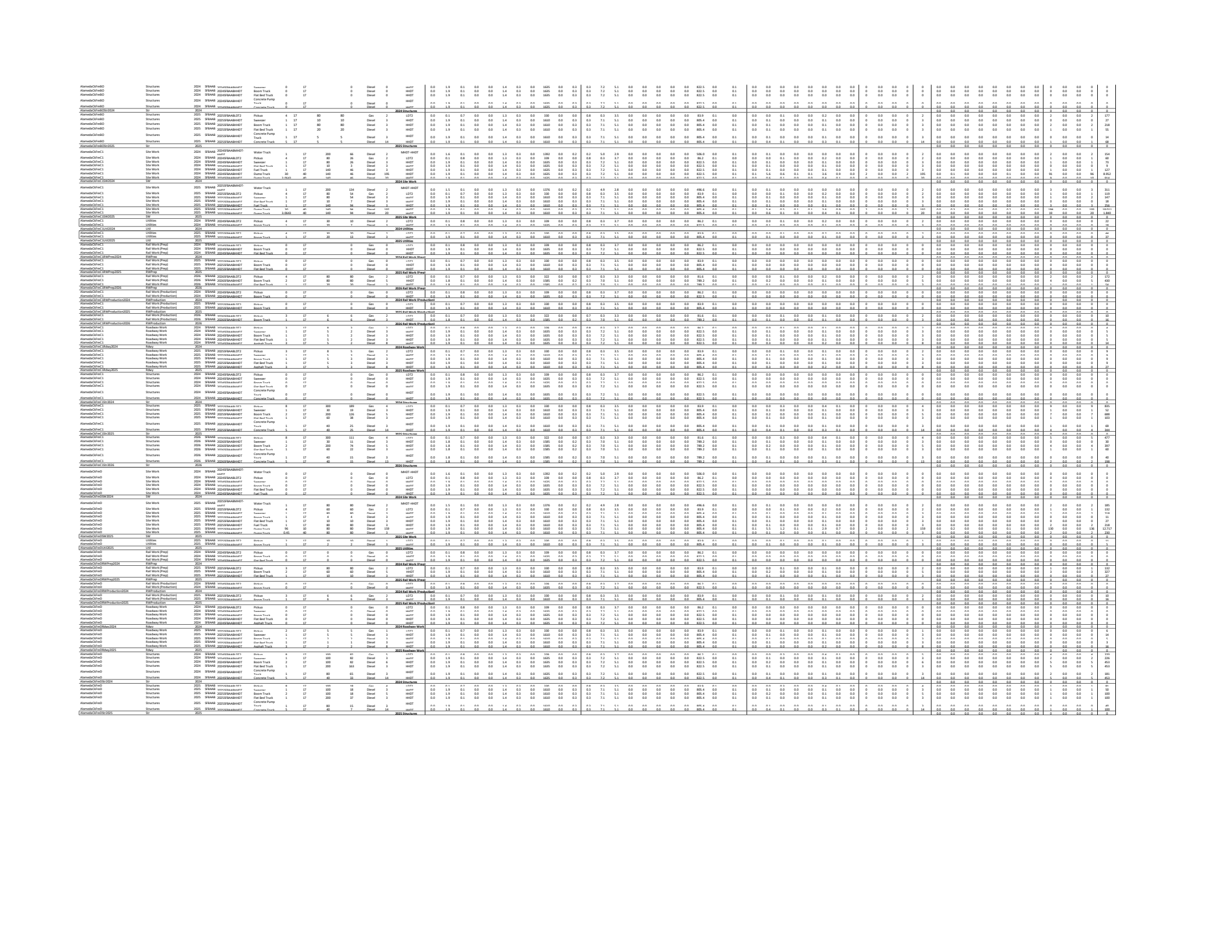
Project	Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT MU/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle

g/mi (EMFAC AP 42)

| | | | | | | | | | |







Locomotive Calculations | Location | Offsite and OnSite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year							Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingBOA	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingBOARWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingBO	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingBORWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingC1	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingC1RWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	4	3	3	4400	0.2	Diesel	352	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	4.4	72.2	29.4	1.3	1.2			0.1	3.6	0.0	0.0	3.6	352	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.9	1,057
HaywardSidingD	2024 Rail Work (Prep)	2024	DSL LOCOMOTIVE	3	2	10	2	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.4	0.2	0.0	0.0	0.0	0.0	38.7	0.0	0.0	39.1	3,792
HaywardSidingDRWPrep2024	RWPrep2024																						28.0	461.0	187.5	8.2	7.9	0.0	0.0	0.5	23.0	0.0	0.0	23.2	2,248	0.0	0.5	0.2	0.0	0.0	0.0	0.0	49.5	0.0	0.0	50.0	4,848
IndustrialParkwayBOA	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	3	12	12	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.7	3,171
IndustrialParkwayBOA	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	15	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	2.9	1.2	0.1	0.1	0.0	0.0	290.3	0.0	0.0	293.2	28,437
IndustrialParkwayBOARWPrep2026	RWPrep2026	2026	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
IndustrialParkwayBORWPrep2026	RWPrep2026																						50.6	831.6	338.2	14.8	14.3	0.0	0.0	0.9	41.4	0.0	0.0	41.8	4,056	0.3	5.2	2.1	0.1	0.1	0.0	0.0	516.3	0.0	0.0	521.4	50,566
IndustrialParkwayBO	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	3	12	12	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.7	3,171
IndustrialParkwayBO	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	15	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	2.9	1.2	0.1	0.1	0.0	0.0	290.3	0.0	0.0	293.2	28,437
IndustrialParkwayBO	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
IndustrialParkwayBORWPrep2026	RWPrep2026																						50.6	831.6	338.2	14.8	14.3	0.0	0.0	0.9	41.4	0.0	0.0	41.8	4,056	0.3	5.2	2.1	0.1	0.1	0.0	0.0	516.3	0.0	0.0	521.4	50,566
IndustrialParkwayC1	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	3	12	12	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	32.4	0.0	0.0	32.7	3,171
IndustrialParkwayC1	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	15	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	2.9	1.2	0.1	0.1	0.0	0.0	290.3	0.0	0.0	293.2	28,437
IndustrialParkwayC1	2026 Rail Work (Prep)	2026	DSL LOCOMOTIVE	3	2	10	10	10	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.9	0.8	0.0	0.0	0.0	0.0	193.6	0.0	0.0	195.5	18,958
IndustrialParkwayC1RWPrep2026	RWPrep2026																						50.6	831.6	338.2	14.8	14.3	0.0	0.0	0.9	41.4	0.0	0.0	41.8	4,056	0.3	5.2	2.1	0.1	0.1	0.0	0.0	516.3	0.0	0.0	521.4	50,566
IndustrialParkwayD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	0	3	0		4400	0.2	Diesel	0	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
IndustrialParkwayD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	0	10	0		4400	0.4	Diesel	0	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
IndustrialParkwayD	2025 Rail Work (Prep)	2025	DSL LOCOMOTIVE	3	0	10	0		4400	0.4	Diesel	0	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
IndustrialParkwayDRWPrep2025	RWPrep2025																						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Earth Moving Calculations Location Onsite

Code	Days	Grading (acres)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor						Pounds per day								Metric tons per day				Gal per day
					PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA																							
HaywardSidingBOASW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOAUtil	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOARWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBOARWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOAStr	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBO																							
HaywardSidingBOSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingBOUtil	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBORWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingBORWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingBOStr	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1																							
HaywardSidingC1SW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingC1Util	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1RWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingC1RWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingC1Str	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingD																							
HaywardSidingDSW	80	0.75	17,500	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
HaywardSidingDUtil	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDRWPrep	20	0	8,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
HaywardSidingDRWProduction	1	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
HaywardSidingDStr	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOA																							
IndustrialParkwayBOASW	200	0.75	55,706	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOAUtil	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOARWPrep	80	0	20,150	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
IndustrialParkwayBOARWProducti	2	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOAStr	320	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBO																							
IndustrialParkwayBOSW	200	0.75	68,868	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayBOUtil	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBORWPrep	80	0	20,150	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
IndustrialParkwayBORWProductio	2	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayBOStr	320	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1																							
IndustrialParkwayC1SW	200	0.75	68,868	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
IndustrialParkwayC1Util	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1RWPrep	80	0	20,150	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
IndustrialParkwayC1RWProductior	2	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayC1Str	320	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayD																							
IndustrialParkwayDSW	0	0	59,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDUtil	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDRWPrep	0	0	13,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDRWProduction	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
IndustrialParkwayDStr	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOA																							
DecotoSidingBOASW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOAUtil	120	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOARWPrep	80	0	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBOARWProduction	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOAStr	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBO																							
DecotoSidingBOSW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingBOUtil	120	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBORWPrep	80	0	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingBORWProduction	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingBOStr	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1																							
DecotoSidingC1SW	120	0.75	41,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
DecotoSidingC1Util	120	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1RWPrep	80	0	33,000	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingC1RWProduction	20	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingC1Str	0	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingD																							
DecotoSidingDSW	200	0.75	179,823	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.7	2.5						
DecotoSidingDUtil	200	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDRWPrep	80	0	26,100	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
DecotoSidingDRWProduction	10	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
DecotoSidingDStr	61	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOA																							
AlamedaCkFreBOASW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.5						
AlamedaCkFreBOAUtil	100	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOARWPrep	80	0	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOARWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBOAStr	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
AlamedaCkFreBO																							

AlamedaCkFreBOSW	100	0.75	32,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4			4.6	2.5		
AlamedaCkFreBOUtil	100	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreBORWPrep	80	0	6,200	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreBORWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreBOStr	80	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreC1																
AlamedaCkFreC1SW	140	0.75	49,000	6	1.1	0.1145	0.0002	0.0000	0.8	0.4			4.6	2.5		
AlamedaCkFreC1RWPrep	80	0	17,250	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.1	0.0		
AlamedaCkFreC1RWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreC1Str	360	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreD																
AlamedaCkFreDSW	80	0.75	77,975	6	1.1	0.1145	0.0002	0.0000	0.8	0.4			4.8	2.5		
AlamedaCkFreDRWPrep	80	0	9,725	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreDRWProduction	6	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		
AlamedaCkFreDStr	300	0	0	0	1.1	0.1145	0.0002	0.0000	0.8	0.4			0.0	0.0		

Paving Calculations Location Onsite

Code	Days	Paved (sf)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
IndustrialParkwayBOA			2.6													
IndustrialParkwayBOASW	200	43,560	2.6	0.0												
IndustrialParkwayBOARW			2.6													
IndustrialParkwayBOAStr			2.6													
IndustrialParkwayBO			2.6													
IndustrialParkwayBOSW	200	243,936	2.6	0.1												
IndustrialParkwayBORW			2.6													
IndustrialParkwayBOStr			2.6													
IndustrialParkwayC1			2.6													
IndustrialParkwayC1SW	200	243,936	2.6	0.1												
IndustrialParkwayC1RW			2.6													
IndustrialParkwayC1Str			2.6													
IndustrialParkwayD			2.6													
IndustrialParkwayDSW	0	243,936	2.6													
IndustrialParkwayDRW			2.6													
IndustrialParkwayDStr			2.6													
DecotoSidingBOA			2.6													
DecotoSidingBOASW	120	8,712	2.6	0.0												
DecotoSidingBOARW			2.6													
DecotoSidingBOAStr			2.6													
DecotoSidingBO			2.6													
DecotoSidingBOSW	120	8,712	2.6	0.0												
DecotoSidingBORW			2.6													
DecotoSidingBOStr			2.6													
DecotoSidingC1			2.6													
DecotoSidingC1SW	120	8,712	2.6	0.0												
DecotoSidingC1RW			2.6													
DecotoSidingC1Str			2.6													
AlamedaCkFreBOA			2.6													
DecotoSidingD			2.6													
DecotoSidingDSW	200	365,904	2.6	0.1												
DecotoSidingDRW			2.6													
DecotoSidingDStr			2.6													
AlamedaCkFreBOA			2.6													
AlamedaCkFreBOASW	100	27,007	2.6	0.0												
AlamedaCkFreBOARW			2.6													
AlamedaCkFreBOAStr			2.6													
AlamedaCkFreBO			2.6													
AlamedaCkFreBOSW	100	27,007	2.6	0.0												
AlamedaCkFreBORW			2.6													
AlamedaCkFreBOStr			2.6													
AlamedaCkFreC1			2.6													
AlamedaCkFreC1SW	140	87,120	2.6	0.0												
AlamedaCkFreC1RW			2.6													
AlamedaCkFreC1Str			2.6													
AlamedaCkFreD			2.6													
AlamedaCkFreDSW	80	21,780	2.6	0.0												
AlamedaCkFreDRW			2.6													
AlamedaCkFreDStr			2.6													

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
HaywardSidingBOA			0.023	0.003													
HaywardSidingBOASW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBOARW			0.023	0.003													
HaywardSidingBOAStr			0.023	0.003													
HaywardSidingBO			0.023	0.003													
HaywardSidingBOSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingBORW			0.023	0.003													
HaywardSidingBOStr			0.023	0.003													
HaywardSidingC1			0.023	0.003													
HaywardSidingC1SW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingC1RW			0.023	0.003													
HaywardSidingC1Str			0.023	0.003													
HaywardSidingD			0.023	0.003													
HaywardSidingDSW	80	63	0.023	0.003						0.0	0.0						
HaywardSidingDRW			0.023	0.003													
HaywardSidingDStr			0.023	0.003													
IndustrialParkwayBOA			0.023	0.003													
IndustrialParkwayBOAS	200	924	0.023	0.003						0.1	0.0						
IndustrialParkwayBOARW			0.023	0.003													
IndustrialParkwayBOAStr			0.023	0.003													
IndustrialParkwayBO			0.023	0.003													
IndustrialParkwayBOSW	200	924	0.023	0.003						0.1	0.0						
IndustrialParkwayBORW			0.023	0.003													
IndustrialParkwayBOStr			0.023	0.003													
IndustrialParkwayC1			0.023	0.003													
IndustrialParkwayC1SW	200	924	0.023	0.003						0.1	0.0						
IndustrialParkwayC1RW			0.023	0.003													
IndustrialParkwayC1Str			0.023	0.003													
IndustrialParkwayD			0.023	0.003													
IndustrialParkwayDSW	0	861	0.023	0.003						-	-						
IndustrialParkwayDRW			0.023	0.003													
IndustrialParkwayDStr			0.023	0.003													
DecotoSidingBOA			0.023	0.003													
DecotoSidingBOASW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBOARW			0.023	0.003													
DecotoSidingBOAStr			0.023	0.003													
DecotoSidingBO			0.023	0.003													
DecotoSidingBOSW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingBORW			0.023	0.003													
DecotoSidingBOStr			0.023	0.003													
DecotoSidingC1			0.023	0.003													
DecotoSidingC1SW	120	126	0.023	0.003						0.0	0.0						
DecotoSidingC1RW			0.023	0.003													
DecotoSidingC1Str			0.023	0.003													
DecotoSidingD			0.023	0.003													
DecotoSidingDSW	200	22,629	0.023	0.003						2.6	0.4						
DecotoSidingDRW			0.023	0.003													
DecotoSidingDStr			0.023	0.003													
AlamedaCkFreBOA			0.023	0.003													
AlamedaCkFreBOASW	100	632	0.023	0.003						0.1	0.0						
AlamedaCkFreBOARW			0.023	0.003													
AlamedaCkFreBOAStr			0.023	0.003													
AlamedaCkFreBO			0.023	0.003													
AlamedaCkFreBOSW	100	2,528	0.023	0.003						0.6	0.1						
AlamedaCkFreBORW			0.023	0.003													

AlamedaCkFreBOStr			0.023	0.003					
AlamedaCkFreC1			0.023	0.003					
AlamedaCkFreC1SW	140	7,585	0.023	0.003		1.2	0.2		
AlamedaCkFreC1RW			0.023	0.003					
AlamedaCkFreC1Str			0.023	0.003					
AlamedaCkFreD			0.023	0.003					
AlamedaCkFreDSW	80	632	0.023	0.003		0.2	0.0		
AlamedaCkFreDRW			0.023	0.003					
AlamedaCkFreDStr			0.023	0.003					

Construction Electricity

	Annual Value provided (kWh/year)	Scaled Annual Values (based on schedule) (kWh/year)			Year 1				Year 2				Year 3			
Option B.O.A	**At-Grade @ Industrial**	**Year 1**	**Year 2**	**Year 3**	CO_2	CH_4	N_2O	CO_2e	CO_2	CH_4	N_2O	CO_2e	CO_2	CH_4	N_2O	CO_2e
Industrial	1,600	1,600	1,600	-												
Alameda Creek-Fremont	1,600	1,600	1,600	-												
Total	3,200	3,200	3,200	-	0.2961	0.0000	0.0000	0.2990	0.2961	0.0000	0.0000	0.2990	-	-	-	-
	Grade-Separated @ Industrial															
Industrial	2,800	2,800	2,800	844												
Alameda Creek-Fremont	1,600	1,600	1,600	482												
Total	4,400	4,400	4,400	1,327	0.4071	0.0001	0.0000	0.4111	0.4071	0.0001	0.0000	0.4111	0.1228	0.0000	0.0000	0.1240
Option B.O	**At-Grade @ Industrial**															
Industrial	1,600	1,600	1,600	-												
Alameda Creek-Fremont	1,600	1,600	1,600	-												
Total	3,200	3,200	3,200	-	0.2961	0.0000	0.0000	0.2990	0.2961	0.0000	0.0000	0.2990	-	-	-	-
	Grade-Separated @ Industrial															
Industrial	2,800	2,800	2,800	844												
Alameda Creek-Fremont	1,600	1,600	1,600	482												
Total	4,400	4,400	4,400	1,327	0.4071	0.0001	0.0000	0.4111	0.4071	0.0001	0.0000	0.4111	0.1228	0.0000	0.0000	0.1240
Option C	**At-Grade @ Industrial**															
Industrial	1,600	1,600	1,600	1,289												
Alameda Creek-Fremont	4,320	4,320	4,320	3,479												
Total	5,920	5,920	5,920	4,768	0.5477	0.0001	0.0000	0.5532	0.5477	0.0001	0.0000	0.5532	0.4411	0.0001	0.0000	0.4455
	Grade-Separated @ Industrial															
Industrial	2,800	2,800	2,800	2,255												
Alameda Creek-Fremont	4,320	4,320	4,320	3,479												
Total	7,120	7,120	7,120	5,734	0.6588	0.0001	0.0000	0.6653	0.6588	0.0001	0.0000	0.6653	0.5305	0.0001	0.0000	0.5358
Option D	**At-Grade @ Industrial**															
Decoto Siding	5,200	5,200	5,200	-												
Alameda Creek-Niles Junctio	3,960	3,960	3,960	-												
Total	9,160	9,160	9,160	-	0.8475	0.0001	0.0000	0.8559	0.8475	0.0001	0.0000	0.8559	-	-	-	-
Coast Alternative E																
Newark Yard	3,200	2,425	3,200	877												
Total	3,200	2,425	3,200	877	0.2243	0.0000	0.0000	0.2266	0.2961	0.0000	0.0000	0.2990	0.0812	0.0000	0.0000	0.0820

Electricity Emission Factors - PG&E			
	CH_4 (lb/MWh)	**CO_2 (lb/MWh)**	**N_2O (lb/MWh)**
All Years	0.033	203.983	0.004
source: CalEEMod 2022, Appendix G-3			

Ardenwood Station Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Ardenwood Station
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	4.20
Precipitation (days)	35.2
Location	37.55134363689071, -122.05521130320885
County	Alameda
City	Fremont
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1638
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	21.4	1000sqft	0.49	21,450	0.00	—	—	—

Parking Lot	76.8	1000sqft	1.76	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.43	0.73	1.59	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	217	217	0.02	< 0.005	0.00	219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.28	0.27	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	214	214	0.02	< 0.005	0.00	215
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	0.30	0.60	1.00	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	192	192	0.02	< 0.005	0.00	193
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.06	0.06	0.11	0.18	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	31.8	31.8	< 0.005	< 0.005	0.00	32.0

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.17	0.17	0.01	0.93	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	81.8	81.8	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.45	0.43	0.73	1.59	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	217	217	0.02	< 0.005	0.00	219
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	81.8	81.8	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.28	0.27	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	214	214	0.02	< 0.005	0.00	215
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.08	0.09	< 0.005	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.89	1.89	< 0.005	< 0.005	—	1.90
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	81.8	81.8	0.01	< 0.005	—	82.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Stationary	0.23	0.21	0.59	0.54	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	108	108	< 0.005	< 0.005	0.00	109
Total	0.31	0.30	0.60	1.00	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	192	192	0.02	< 0.005	0.00	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.01	0.02	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.31	0.31	< 0.005	< 0.005	—	0.31
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	13.5	13.5	< 0.005	< 0.005	—	13.7
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.04	0.04	0.11	0.10	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17.9	17.9	< 0.005	< 0.005	0.00	18.0
Total	0.06	0.06	0.11	0.18	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	31.8	31.8	< 0.005	< 0.005	0.00	32.0

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	44.3	44.3	0.01	< 0.005	—	44.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6	0.01	< 0.005	—	38.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	81.8	81.8	0.01	< 0.005	—	82.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	44.3	44.3	0.01	< 0.005	—	44.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	37.6	37.6	0.01	< 0.005	—	38.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	81.8	81.8	0.01	< 0.005	—	82.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	7.33	7.33	< 0.005	< 0.005	—	7.40
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	6.22	6.22	< 0.005	< 0.005	—	6.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	13.5	13.5	< 0.005	< 0.005	—	13.7

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.17	0.15	0.01	0.93	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Total	0.17	0.17	0.01	0.93	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.84	3.84	< 0.005	< 0.005	—	3.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.31	0.31	< 0.005	< 0.005	—	0.31
Total	0.01	0.02	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.31	0.31	< 0.005	< 0.005	—	0.31

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Total	0.28	0.26	0.72	0.66	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	132	132	0.01	< 0.005	0.00	132
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.04	0.04	0.11	0.10	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17.9	17.9	< 0.005	< 0.005	0.00	18.0
Total	0.04	0.04	0.11	0.10	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17.9	17.9	< 0.005	< 0.005	0.00	18.0

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	965	107	5,893

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	79,181	204	0.0330	0.0040	0.00
Parking Lot	67,242	204	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	150	314	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	3.25	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	9.76	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	0	0	0	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	1	1	1	2
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—

AQ-Ozone	13.6
AQ-PM	22.4
AQ-DPM	83.5
Drinking Water	8.28
Lead Risk Housing	6.34
Pesticides	29.0
Toxic Releases	37.4
Traffic	89.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	48.5
Haz Waste Facilities/Generators	70.9
Impaired Water Bodies	12.5
Solid Waste	0.00
Sensitive Population	—
Asthma	32.7
Cardio-vascular	40.4
Low Birth Weights	90.0
Socioeconomic Factor Indicators	—
Education	13.1
Housing	16.9
Linguistic	59.8
Poverty	0.20
Unemployment	32.3

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	96.35570384
Employed	54.83125882
Median HI	97.53625048
Education	—
Bachelor's or higher	97.60041062
High school enrollment	13.01167715
Preschool enrollment	55.49852432
Transportation	—
Auto Access	62.47914795
Active commuting	67.0088541
Social	—
2-parent households	90.4914667
Voting	52.58565379
Neighborhood	—
Alcohol availability	46.83690491
Park access	81.35506224
Retail density	47.95329142
Supermarket access	10.66341589
Tree canopy	56.84588733
Housing	—
Homeownership	59.50211728
Housing habitability	81.47055049
Low-inc homeowner severe housing cost burden	97.86988323
Low-inc renter severe housing cost burden	72.66777878
Uncrowded housing	41.35762864

Health Outcomes	—
Insured adults	99.49955088
Arthritis	98.3
Asthma ER Admissions	52.1
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	99.9
Coronary Heart Disease	98.9
Chronic Obstructive Pulmonary Disease	99.6
Diagnosed Diabetes	95.7
Life Expectancy at Birth	98.6
Cognitively Disabled	92.5
Physically Disabled	86.7
Heart Attack ER Admissions	32.5
Mental Health Not Good	99.6
Chronic Kidney Disease	98.6
Obesity	99.8
Pedestrian Injuries	19.6
Physical Health Not Good	99.4
Stroke	98.8
Health Risk Behaviors	—
Binge Drinking	94.8
Current Smoker	98.8
No Leisure Time for Physical Activity	87.6
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	50.5

Children	11.1
Elderly	89.5
English Speaking	53.2
Foreign-born	98.5
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.3
Traffic Density	80.8
Traffic Access	48.7
Other Indices	—
Hardship	25.7
Other Decision Support	—
2016 Voting	54.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	32.0
Healthy Places Index Score for Project Location (b)	92.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Emergency Generators and Fire Pumps	provided by applicant

Emissions in BAAQMD - No Build

	Annual VMT	Tons per Year								Metric Tons per Year			
MPH	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
5	1,222,833,261	18.27	25.19	410.71	2.69	2.47	390.78	96.27	2.00	183,959	4	2	184,776
10	1,447,422,323	16.94	31.20	541.15	2.48	2.28	464.86	114.76	2.37	217,699	4	3	218,682
15	1,336,185,113	13.63	33.49	589.24	2.02	1.86	431.69	106.83	2.36	216,438	3	3	217,472
20	2,352,640,262	27.44	85.64	1538.30	4.06	3.73	767.34	190.64	5.62	515,890	6	8	518,488
25	6,394,423,024	76.32	293.06	5229.01	11.04	10.16	2102.19	523.96	17.66	1,620,469	18	28	1,629,181
30	7,577,609,663	90.49	410.54	7231.27	12.75	11.73	2506.67	626.34	23.20	2,129,023	21	39	2,141,023
35	7,295,705,648	68.28	355.45	6029.16	9.43	8.68	2412.43	602.69	19.23	1,764,735	16	33	1,774,972
40	4,339,680,913	35.92	206.77	3384.12	4.98	4.59	1429.83	356.70	11.31	1,037,843	8	19	1,043,778
45	4,048,791,316	30.11	182.22	2928.94	4.25	3.91	1321.16	328.30	10.63	975,171	7	17	980,419
50	4,207,089,920	30.86	192.89	2903.60	4.36	4.01	1359.64	336.52	11.59	1,063,261	7	18	1,068,802
55	4,557,551,131	36.10	225.55	3124.58	5.10	4.70	1463.83	361.38	13.86	1,272,034	8	21	1,278,485
60	9,810,709,877	81.81	495.45	6246.44	11.89	10.94	3141.47	774.55	31.38	2,879,890	19	46	2,894,135
65	13,554,357,550	133.28	754.55	8396.75	18.82	17.33	4326.58	1065.34	44.97	4,127,263	31	69	4,148,727
Total	68,145,000,000	659.44	3292.00	48553.27	93.87	86.40	22118.46	5484.28	196.17	18,003,675	154	307	18,098,939

	Daily VMT	Pounds per Day							
MPH	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	4,076,111	121.81	167.91	2738.09	17.91	16.48	2605.18	641.79	13.36
10	4,824,741	112.91	208.02	3607.69	16.52	15.20	3099.06	765.05	15.81
15	4,453,950	90.85	223.29	3928.29	13.47	12.40	2877.93	712.22	15.72
20	7,842,134	182.92	570.95	10255.31	27.06	24.90	5115.60	1270.95	37.47
25	21,314,743	508.83	1953.73	34860.03	73.62	67.76	14014.62	3493.09	117.71
30	25,258,699	603.25	2736.93	48208.48	84.97	78.21	16711.12	4175.59	154.66
35	24,319,019	455.20	2369.63	40194.43	62.88	57.88	16082.83	4017.94	128.19
40	14,465,603	239.49	1378.48	22560.79	33.22	30.58	9532.20	2377.97	75.39
45	13,495,971	200.72	1214.78	19526.24	28.32	26.07	8807.72	2188.64	70.84
50	14,023,633	205.76	1285.93	19357.30	29.04	26.74	9064.25	2243.47	77.24
55	15,191,837	240.65	1503.65	20830.52	34.03	31.33	9758.89	2409.21	92.40
60	32,702,366	545.37	3303.02	41642.93	79.27	72.97	20943.12	5163.67	209.20
65	45,181,192	888.51	5030.34	55978.36	125.47	115.51	28843.88	7102.26	299.81
Total	227,150,000	4396.27	21946.66	323688.47	625.77	576.02	147456.41	36561.86	1307.81

Emissions in BAAQMD - Build

MPH	Annual VMT BAAQMD: 2025	Tons per Year ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	Metric Tons per Year CO2	CH4	N2O	CO2e
5	1,222,704,060	18.27	25.18	410.67	2.69	2.47	390.74	96.26	2.00	183,939	4	2	184,757
10	1,447,269,392	16.94	31.20	541.10	2.48	2.28	464.81	114.75	2.37	217,676	4	3	218,659
15	1,336,043,935	13.63	33.49	589.18	2.02	1.86	431.64	106.82	2.36	216,415	3	3	217,449
20	2,352,391,689	27.44	85.63	1538.13	4.06	3.73	767.26	190.62	5.62	515,836	6	8	518,433
25	6,393,747,408	76.32	293.03	5228.45	11.04	10.16	2101.97	523.91	17.65	1,620,298	18	28	1,629,009
30	7,576,809,035	90.48	410.50	7230.51	12.74	11.73	2506.40	626.27	23.20	2,128,798	21	38	2,140,797
35	7,294,934,805	68.27	355.41	6028.53	9.43	8.68	2412.17	602.63	19.23	1,764,549	16	33	1,774,784
40	4,339,222,395	35.92	206.75	3383.76	4.98	4.59	1429.68	356.66	11.31	1,037,733	8	19	1,043,667
45	4,048,363,533	30.10	182.20	2928.63	4.25	3.91	1321.02	328.26	10.62	975,068	7	17	980,315
50	4,206,645,412	30.86	192.87	2903.29	4.36	4.01	1359.49	336.49	11.58	1,063,148	7	18	1,068,689
55	4,557,069,594	36.09	225.52	3124.25	5.10	4.70	1463.68	361.34	13.86	1,271,899	8	21	1,278,350
60	9,809,673,306	81.80	495.40	6245.78	11.89	10.94	3141.14	774.47	31.38	2,879,586	19	46	2,893,829
65	13,552,925,437	133.26	754.47	8395.87	18.82	17.32	4326.13	1065.23	44.97	4,126,827	31	69	4,148,288
Total	68,137,800,000	659.37	3291.65	48548.14	93.86	86.39	22116.13	5483.70	196.15	18,001,772	154	307	18,097,027

MPH	Daily VMT BAAQMD: 2025	Pounds per Day ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	4,075,680	121.79	167.89	2737.80	17.91	16.47	2604.91	641.72	13.36
10	4,824,231	112.90	207.99	3607.31	16.51	15.20	3098.74	764.97	15.81
15	4,453,480	90.84	223.27	3927.88	13.47	12.40	2877.62	712.14	15.72
20	7,841,306	182.90	570.89	10254.22	27.05	24.90	5115.06	1270.81	37.47
25	21,312,491	508.77	1953.52	34856.35	73.61	67.75	14013.14	3492.72	117.70
30	25,256,030	603.18	2736.64	48203.38	84.96	78.20	16709.36	4175.15	154.64
35	24,316,449	455.15	2369.38	40190.18	62.87	57.88	16081.13	4017.52	128.18
40	14,464,075	239.46	1378.34	22558.41	33.22	30.58	9531.19	2377.72	75.38
45	13,494,545	200.70	1214.65	19524.18	28.32	26.07	8806.79	2188.41	70.83
50	14,022,151	205.74	1285.79	19355.26	29.04	26.73	9063.29	2243.23	77.23
55	15,190,232	240.63	1503.49	20828.32	34.03	31.33	9757.86	2408.95	92.39
60	32,698,911	545.31	3302.67	41638.53	79.26	72.96	20940.90	5163.13	209.18
65	45,176,418	888.42	5029.81	55972.45	125.45	115.50	28840.84	7101.51	299.78
Total	227,126,000	4395.80	21944.35	323654.27	625.71	575.95	147440.83	36557.99	1307.67

Emissions in BAAQMD - 2025 Summary

	Annual VMT	Tons per Year								Metric Tons per Year			
	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
Total (No Build)	68,145,000,000	659	3,292	48,553	94	86	22,118	5,484	196	18,003,675	154	307	18,098,939
Total (Build)	68,137,800,000	659	3,292	48,548	94	86	22,116	5,484	196	18,001,772	154	307	18,097,027
Displaced VMT	7,200,000	0	0	5	0	0	2	1	0	1,902	0	0	1,912

	Daily VMT	Pounds per Day							
	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
Total (No Build)	227,150,000	4,396	21,947	323,688	626	576	147,456	36,562	1,308
Total (Build)	227,126,000	4,396	21,944	323,654	626	576	147,441	36,558	1,308
Displaced VMT	24,000	0	2	34	0	0	16	4	0

Emissions in BAAQMD - No Build

	Annual VMT	Tons per Year								Metric Tons per Year			
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
5	1,612,778,648	10.71	17.00	407.02	1.68	1.55	515.60	127.04	2.41	221,058	3	2	221,824
10	1,403,378,260	6.03	13.12	328.38	0.95	0.88	450.52	111.20	1.75	160,312	2	2	160,890
15	1,991,743,642	7.11	20.92	529.51	1.13	1.04	642.89	159.04	2.56	234,504	2	3	235,408
20	3,419,974,084	13.94	52.60	1358.40	2.23	2.05	1113.72	276.52	5.98	548,671	4	7	550,914
25	8,794,332,148	37.09	173.23	4486.28	5.94	5.47	2886.28	718.90	18.34	1,683,017	11	24	1,690,335
30	9,893,262,530	44.08	244.16	6293.86	7.04	6.47	3271.03	817.16	24.61	2,258,804	13	33	2,269,042
35	9,343,834,005	30.85	196.85	4932.57	4.93	4.54	3085.61	770.47	19.33	1,774,124	9	27	1,782,346
40	5,031,849,271	14.94	104.66	2552.42	2.39	2.20	1656.35	413.05	10.45	958,594	4	14	962,962
45	5,105,284,458	13.72	101.79	2392.77	2.17	2.00	1664.56	413.49	10.57	969,763	4	14	973,934
50	4,006,153,303	10.88	82.24	1830.68	1.74	1.60	1294.40	320.34	8.92	818,647	3	11	822,074
55	4,448,692,995	13.30	99.77	2051.10	2.13	1.96	1428.86	352.75	11.14	1,022,633	4	14	1,026,788
60	9,041,428,013	29.45	211.93	3944.29	4.75	4.37	2895.34	713.89	24.09	2,210,670	9	29	2,219,459
65	12,824,288,644	47.73	316.05	5300.97	7.70	7.08	4093.57	1007.97	35.19	3,229,044	14	43	3,242,313
Total	76,917,000,000	279.84	1634.31	36408.26	44.80	41.21	24998.74	6201.82	175.33	16,089,841	81	223	16,158,291

	Daily VMT	Pounds per Day							
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	5,375,929	71.42	113.35	2713.47	11.22	10.32	3437.36	846.94	16.06
10	4,677,928	40.22	87.50	2189.21	6.35	5.84	3003.46	741.31	11.65
15	6,639,145	47.41	139.45	3530.09	7.55	6.95	4285.91	1060.25	17.04
20	11,399,914	92.90	350.68	9055.97	14.89	13.70	7424.82	1843.48	39.86
25	29,314,440	247.30	1154.86	29908.55	39.63	36.45	19241.87	4792.68	122.26
30	32,977,542	293.85	1627.70	41959.05	46.91	43.15	21806.84	5447.75	164.09
35	31,146,113	205.65	1312.34	32883.83	32.87	30.24	20570.74	5136.44	128.88
40	16,772,831	99.63	697.71	17016.13	15.93	14.66	11042.35	2753.68	69.64
45	17,017,615	91.45	678.61	15951.78	14.50	13.33	11097.07	2756.62	70.45
50	13,353,844	72.55	548.24	12204.56	11.61	10.68	8629.32	2135.62	59.47
55	14,828,977	88.66	665.12	13674.02	14.23	13.09	9525.72	2351.64	74.29
60	30,138,093	196.36	1412.87	26295.29	31.64	29.10	19302.29	4759.26	160.59
65	42,747,629	318.23	2106.97	35339.81	51.35	47.23	27290.49	6719.79	234.57
Total	256,390,000	1865.61	10895.41	242721.75	298.69	274.74	166658.25	41345.45	1168.84

Emissions in BAAQMD - Build **Design Year (2045) - Build**

	Annual VMT	Tons per Year								Metric Tons per Year			
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
5	1,612,571,067	10.71	17.00	406.97	1.68	1.55	515.54	127.02	2.41	221,029	3	2	221,795
10	1,403,197,631	6.03	13.12	328.34	0.95	0.88	450.46	111.18	1.75	160,291	2	2	160,869
15	1,991,487,284	7.11	20.92	529.45	1.13	1.04	642.80	159.02	2.55	234,474	2	3	235,378
20	3,419,533,898	13.93	52.60	1358.22	2.23	2.05	1113.58	276.49	5.98	548,600	4	7	550,843
25	8,793,200,228	37.09	173.21	4485.70	5.94	5.47	2885.91	718.81	18.34	1,682,800	11	24	1,690,117
30	9,891,989,166	44.07	244.12	6293.05	7.04	6.47	3270.61	817.06	24.61	2,258,514	13	33	2,268,750
35	9,342,631,359	30.84	196.83	4931.94	4.93	4.54	3085.21	770.37	19.33	1,773,896	9	27	1,782,117
40	5,031,201,620	14.94	104.64	2552.09	2.39	2.20	1656.14	413.00	10.44	958,471	4	14	962,838
45	5,104,627,356	13.72	101.78	2392.46	2.17	2.00	1664.35	413.44	10.57	969,638	4	14	973,809
50	4,005,637,671	10.88	82.23	1830.45	1.74	1.60	1294.23	320.30	8.92	818,541	3	11	821,968
55	4,448,120,403	13.30	99.76	2050.84	2.13	1.96	1428.67	352.70	11.14	1,022,502	4	14	1,026,656
60	9,040,264,289	29.45	211.90	3943.79	4.75	4.37	2894.97	713.80	24.09	2,210,385	9	29	2,219,174
65	12,822,638,027	47.73	316.01	5300.29	7.70	7.08	4093.05	1007.84	35.18	3,228,628	14	43	3,241,896
Total	76,907,100,000	279.81	1634.10	36403.58	44.80	41.21	24995.52	6201.02	175.30	16,087,770	81	223	16,156,211

	Daily VMT	Pounds per Day							
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	5,375,237	71.41	113.33	2713.12	11.22	10.32	3436.92	846.83	16.06
10	4,677,325	40.22	87.49	2188.93	6.35	5.84	3003.07	741.22	11.64
15	6,638,291	47.40	139.43	3529.63	7.55	6.95	4285.36	1060.11	17.03
20	11,398,446	92.89	350.64	9054.80	14.89	13.70	7423.87	1843.25	39.85
25	29,310,667	247.26	1154.71	29904.70	39.62	36.45	19239.39	4792.06	122.25
30	32,973,297	293.81	1627.49	41953.65	46.91	43.15	21804.04	5447.05	164.07
35	31,142,105	205.63	1312.17	32879.60	32.87	30.24	20568.09	5135.78	128.86
40	16,770,672	99.61	697.62	17013.94	15.93	14.65	11040.93	2753.33	69.63
45	17,015,425	91.43	678.52	15949.73	14.50	13.33	11095.64	2756.26	70.44
50	13,352,126	72.54	548.17	12202.99	11.61	10.68	8628.21	2135.34	59.46
55	14,827,068	88.65	665.04	13672.26	14.22	13.08	9524.50	2351.33	74.28
60	30,134,214	196.33	1412.69	26291.91	31.64	29.10	19299.80	4758.65	160.57
65	42,742,127	318.19	2106.70	35335.26	51.34	47.22	27286.98	6718.93	234.54
Total	256,357,000	1865.37	10894.01	242690.51	298.65	274.70	166636.80	41340.13	1168.69

Emissions in BAAQMD - 2040 Summary

	Annual VMT	Tons per Year								Metric Tons per Year			
	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
Total (No Build)	76,917,000,000	280	1,634	36,408	45	41	24,999	6,202	175	16,089,841	81	223	16,158,291
Total (Build)	76,907,100,000	280	1,634	36,404	45	41	24,996	6,201	175	16,087,770	81	223	16,156,211
Displaced VMT	9,900,000	0	0	5	0	0	3	1	0	2,071	0	0	2,080

	Daily VMT	Pounds per Day							
	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
Total (No Build)	256,390,000	1,866	10,895	242,722	299	275	166,658	41,345	1,169
Total (Build)	256,357,000	1,865	10,894	242,691	299	275	166,637	41,340	1,169
Displaced VMT	33,000	0	1	31	0	0	21	5	0

Weighted Emission Factors by Vehicle Speed (grams per mile)

Air District: Year: Speed	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SOX	CO2	CH4	N2O	PM10 BW/TW	PM2.5 BW/TW	PM10 RD	PM2.5 RD
BAAQMD: 2019: 5	0.04	0.05	0.67	0.00	0.00	0.29	0.07	0.00	232.52	0.01	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2019: 10	0.03	0.06	0.76	0.00	0.00	0.29	0.07	0.00	243.55	0.01	0.00	0.005	0.002	0.29	0.07
BAAQMD: 2019: 15	0.03	0.06	0.81	0.00	0.00	0.29	0.07	0.00	234.98	0.01	0.01	0.006	0.002	0.29	0.07
BAAQMD: 2019: 20	0.03	0.09	1.20	0.00	0.00	0.30	0.07	0.00	324.06	0.01	0.01	0.010	0.003	0.29	0.07
BAAQMD: 2019: 25	0.03	0.10	1.31	0.00	0.00	0.30	0.07	0.00	325.66	0.01	0.01	0.012	0.004	0.29	0.07
BAAQMD: 2019: 30	0.02	0.10	1.37	0.00	0.00	0.30	0.08	0.00	319.42	0.01	0.01	0.013	0.004	0.29	0.07
BAAQMD: 2019: 35	0.02	0.10	1.26	0.00	0.00	0.30	0.08	0.00	292.25	0.00	0.01	0.013	0.005	0.29	0.07
BAAQMD: 2019: 40	0.02	0.09	1.15	0.00	0.00	0.30	0.07	0.00	275.58	0.00	0.01	0.012	0.004	0.29	0.07
BAAQMD: 2019: 45	0.02	0.09	1.07	0.00	0.00	0.30	0.07	0.00	280.84	0.00	0.01	0.009	0.003	0.29	0.07
BAAQMD: 2019: 50	0.01	0.09	1.01	0.00	0.00	0.29	0.07	0.00	293.88	0.00	0.01	0.006	0.002	0.29	0.07
BAAQMD: 2019: 55	0.02	0.09	0.97	0.00	0.00	0.29	0.07	0.00	311.18	0.00	0.01	0.004	0.001	0.29	0.07
BAAQMD: 2019: 60	0.02	0.09	0.90	0.00	0.00	0.29	0.07	0.00	324.85	0.00	0.01	0.003	0.001	0.29	0.07
BAAQMD: 2019: 65	0.02	0.10	0.89	0.00	0.00	0.29	0.07	0.00	336.57	0.00	0.01	0.002	0.001	0.29	0.07
Air District: Year: Speed	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SOX	CO2	CH4	N2O				
BAAQMD: 2025: 5	0.01	0.02	0.30	0.00	0.00	0.29	0.07	0.00	150.44	0.00	0.00	0.002	0.001	0.29	0.07
BAAQMD: 2025: 10	0.01	0.02	0.34	0.00	0.00	0.29	0.07	0.00	150.40	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2025: 15	0.01	0.02	0.40	0.00	0.00	0.29	0.07	0.00	161.98	0.00	0.00	0.006	0.002	0.29	0.07
BAAQMD: 2025: 20	0.01	0.03	0.59	0.00	0.00	0.30	0.07	0.00	219.28	0.00	0.00	0.008	0.003	0.29	0.07
BAAQMD: 2025: 25	0.01	0.04	0.74	0.00	0.00	0.30	0.07	0.00	253.42	0.00	0.00	0.011	0.004	0.29	0.07
BAAQMD: 2025: 30	0.01	0.05	0.87	0.00	0.00	0.30	0.07	0.00	280.96	0.00	0.01	0.013	0.004	0.29	0.07
BAAQMD: 2025: 35	0.01	0.04	0.75	0.00	0.00	0.30	0.07	0.00	241.89	0.00	0.00	0.013	0.004	0.29	0.07
BAAQMD: 2025: 40	0.01	0.04	0.71	0.00	0.00	0.30	0.07	0.00	239.15	0.00	0.00	0.011	0.004	0.29	0.07
BAAQMD: 2025: 45	0.01	0.04	0.66	0.00	0.00	0.30	0.07	0.00	240.85	0.00	0.00	0.009	0.003	0.29	0.07
BAAQMD: 2025: 50	0.01	0.04	0.63	0.00	0.00	0.29	0.07	0.00	252.73	0.00	0.00	0.006	0.002	0.29	0.07
BAAQMD: 2025: 55	0.01	0.04	0.62	0.00	0.00	0.29	0.07	0.00	279.10	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2025: 60	0.01	0.05	0.58	0.00	0.00	0.29	0.07	0.00	293.55	0.00	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2025: 65	0.01	0.05	0.56	0.00	0.00	0.29	0.07	0.00	304.50	0.00	0.01	0.002	0.001	0.29	0.07
Air District: Year: Speed	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SOX	CO2	CH4	N2O				
BAAQMD: 2040: 5	0.01	0.01	0.23	0.00	0.00	0.29	0.07	0.00	137.07	0.00	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2040: 10	0.00	0.01	0.21	0.00	0.00	0.29	0.07	0.00	114.23	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2040: 15	0.00	0.01	0.24	0.00	0.00	0.29	0.07	0.00	117.74	0.00	0.00	0.005	0.002	0.29	0.07
BAAQMD: 2040: 20	0.00	0.01	0.36	0.00	0.00	0.30	0.07	0.00	160.43	0.00	0.00	0.008	0.003	0.29	0.07
BAAQMD: 2040: 25	0.00	0.02	0.46	0.00	0.00	0.30	0.07	0.00	191.38	0.00	0.00	0.010	0.004	0.29	0.07
BAAQMD: 2040: 30	0.00	0.02	0.58	0.00	0.00	0.30	0.07	0.00	228.32	0.00	0.00	0.013	0.004	0.29	0.07
BAAQMD: 2040: 35	0.00	0.02	0.48	0.00	0.00	0.30	0.07	0.00	189.87	0.00	0.00	0.012	0.004	0.29	0.07
BAAQMD: 2040: 40	0.00	0.02	0.46	0.00	0.00	0.30	0.07	0.00	190.51	0.00	0.00	0.011	0.004	0.29	0.07
BAAQMD: 2040: 45	0.00	0.02	0.43	0.00	0.00	0.30	0.07	0.00	189.95	0.00	0.00	0.008	0.003	0.29	0.07
BAAQMD: 2040: 50	0.00	0.02	0.41	0.00	0.00	0.29	0.07	0.00	204.35	0.00	0.00	0.006	0.002	0.29	0.07
BAAQMD: 2040: 55	0.00	0.02	0.42	0.00	0.00	0.29	0.07	0.00	229.87	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2040: 60	0.00	0.02	0.40	0.00	0.00	0.29	0.07	0.00	244.50	0.00	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2040: 65	0.00	0.02	0.37	0.00	0.00	0.29	0.07	0.00	251.79	0.00	0.00	0.002	0.001	0.29	0.07

Re-entrained Paved Road Dust Emission Factors

Methodology

Calculation Methodology: USEPA AP-42, Paved Roads, Section 13.2.1, Revised January 2011:
https://www.arb.ca.gov/ei/areasrc/PMSJVPavedRoadMethod2003.pdf
Avg vehicle weight and silt loading on Local Roads within San Joaquin, Stanislaus, and Merced Counties
http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9.pdf
Precipitation Days greater than 0.254mm (0.01 in)
https://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2016.pdf

E = particulate emission factor (grams of particulate matter/VMT)	
k = particle size multiplier (lb/VMT)	default from AP-42
sL = local roadway silt loading (g/m2)	CalEEMod default
W = average weight of vehicles on the road (tons)	ARB Section 7.9, Table 3
P = number of wet days with at least 0.254mm of precipitation	from WRCC
N = number of days in the averaging period	annual days (365)
g to lb conversion	0.002204623

	sL	W	P	
		0.1	2.4	58 Santa Clara County
		0.1	2.4	63 Alameda County
Average		0.1	2.4	61

For BAAQMD

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Pollutant	Variables					
	k	sL	W	P	N	EF (g per mi)
PM_{10}	0.0022	0.1	2.4	61	365	0.28742
$PM_{2.5}$	0.00054	0.1	2.4	61	365	0.07055

Alternative E – Mitigated Emissions Calculation Sheet

Code	Description	Start Date	Working Days	2027	2028	2029		End Date
Elmhurst-Williams	Elmhurst to Williams St. Crossing							
Elmhurst-WilliamsSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsRWProduction	Rail Work (Production)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsStr	Structures	4/1/2027	54	54	0	0	-	6/15/2027
Elmhurst-WilliamsRdwy	Roadway Work	5/1/2027	22	22	0	0	-	6/1/2027
Williams-MtEden	Williams St. Crossing to N. Mt Eden Siding						-	
Williams-MtEdenSW	Site Work	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenUtil	Utilities	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenRWPrep	Rail Work (Prep)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenRWProduction	Rail Work (Production)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenStr	Structures	5/15/2027	143	143	0	0	-	12/1/2027
Williams-MtEdenRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
MtEden-Baumberg	N. Mt. Eden Siding to Baumberg Ave.						-	
MtEden-BaumbergSW	Site Work	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergUtil	Utilities	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergRWPrep	Rail Work (Prep)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergRWProduction	Rail Work (Production)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergStr	Structures	12/1/2027	131	23	108	0	-	6/1/2028
MtEden-BaumbergRdwy	Roadway Work	5/1/2028	22	0	22	0	-	6/1/2028
Baumberg-Alvarado	Baumberg Ave. Crossing to Alvarado Blvd Crossing						-	
Baumberg-AlvaradoSW	Site Work	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoUtil	Utilities	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoRWProduction	Rail Work (Production)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoStr	Structures	5/1/2028	153	0	153	0	-	12/1/2028
Baumberg-AlvaradoRdwy	Roadway Work	9/1/2028	44	0	44	0	-	11/1/2028
Alvarado-Lowry	Alvarado Blvd Crossing to Lowry Road OP						-	
Alvarado-LowrySW	Site Work	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryUtil	Utilities	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryRWPrep	Rail Work (Prep)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryRWProduction	Rail Work (Production)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryStr	Structures	9/1/2028	129	0	86	43	-	3/1/2029
Alvarado-LowryRdwy	Roadway Work	4/1/2028	31	0	31	0	-	5/15/2028
Lowry-Ardenwood	Lowry Rd OP to Ardenwood Blvd. OP						-	
Lowry-ArdenwoodSW	Site Work	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodUtil	Utilities	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodRWProduction	Rail Work (Production)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodStr	Structures	12/1/2027	218	23	195	0	-	10/1/2028
Lowry-ArdenwoodRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Ardenwood-Jarvis	Ardenwood Blvd OP to Jarvis Rd.						-	
Ardenwood-JarvisSW	Site Work	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisUtil	Utilities	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisRWPrep	Rail Work (Prep)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisRWProduction	Rail Work (Production)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisStr	Structures	9/1/2027	65	65	0	0	-	12/1/2027
Ardenwood-JarvisSta	Station	2/1/2028	261	0	239	22	-	2/1/2029
Ardenwood-JarvisRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Jarvis-Thornton	Jarvis Rd. to Thornton Ave.						-	
Jarvis-ThorntonSW	Site Work	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonUtil	Utilities	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonRWPrep	Rail Work (Prep)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonRWProduction	Rail Work (Production)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonStr	Structures	6/1/2027	87	87	0	0	-	10/1/2027
Jarvis-ThorntonRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
Thornton-Newark	Thornton Ave. to S. Newark Yard						-	
Thornton-NewarkSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkRWPrep	Rail Work (Prep)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkRWProduction	Rail Work (Production)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkStr	Structures	4/1/2027	44	44	0	0	-	6/1/2027
Thornton-NewarkRdwy	Roadway Work	7/1/2027	22	22	0	0	-	8/1/2027

Code	Working Days			2027												2028												2029											
				Tons per year							Metric tons per year				Gal/yr	Tons per year							Metric tons per year				Gal/year	Tons per year							Metric tons per year				Gal/yr
	2027	2028	2029	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	COZe	Fuel
Alternative E				**0**	**5**	**13**	**0**	**0**	**2**	**1**	**0**	**3,498**	**0**	**0**	**3,557**	**156,358**	**1**	**6**	**15**	**0**	**0**	**2**	**1**	**0**	**3,969**	**0**	**0**	**4,033**	**177,702**	**0**	**1**	**3**	**0**	**0**	**0**	**0**	**0**	**666**	**0**	**0**	**675**	**29,648**
Off-Road				**0**	**1**	**6**	**0**	**0**	**0**	**0**	**0**	**1054**	**0**	**0**	**1057**	**46,805**	**0**	**1**	**6**	**0**	**0**	**0**	**0**	**0**	**1009**	**0**	**0**	**1013**	**44,837**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**136**	**0**	**0**	**137**	**6,060**
Elmhurst-Williams				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***222***	***0***	***0***	***223***	***9,623***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	50	0	0	50	2,203																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	10	0	0	10	453																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	43	0	0	43	1,894																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	57	0	0	57	2,524																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	15	0	0	15	666																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	38	0	0	38	1,683																									
Williams-MtEden				***0***	***0***	***3***	***0***	***0***	***0***	***0***	***0***	***440***	***0***	***0***	***442***	***19,566***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***4,410***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	1	0	0	0	0	0	90	0	0	90	4,004	0	0	0	0	0	0	0	0	1	0	0	1	31												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	17	0	0	17	740	0	0	0	0	0	0	0	0	0	0	0	0	6												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	26	0	0	26	1,155	0	0	0	0	0	0	0	0	37	0	0	37	1,631												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	44	0	0	44	1,941	0	0	0	0	0	0	0	0	62	0	0	62	2,742												
Williams-MtEdenStr	143	-	-	0	0	1	0	0	0	0	0	131	0	0	132	5,836																									
Williams-MtEdenRdwy	44	-	-	0	0	1	0	0	0	0	0	133	0	0	133	5,890																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***417***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***206***	***0***	***0***	***206***	***9,138***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	41	0	0	41	1,810												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	10	0	0	10	459												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	35	0	0	35	1,552												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	56	0	0	56	2,468												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	9	0	0	9	417	0	0	0	0	0	0	0	0	44	0	0	44	1,955												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	20	0	0	20	893												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***240***	***0***	***0***	***241***	***10,673***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***63***	***0***	***0***	***64***	***2,821***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	38	0	0	38	1,667	0	0	0	0	0	0	0	0	10	0	0	10	451
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	8	0	0	8	342	0	0	0	0	0	0	0	0	2	0	0	2	93
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	20	0	0	20	876	0	0	0	0	0	0	0	0	20	0	0	20	870
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	32	0	0	32	1,416	0	0	0	0	0	0	0	0	32	0	0	32	1,406
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	77	0	0	77	3,426												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	66	0	0	67	2,945												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***116***	***0***	***0***	***116***	***5,136***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***59***	***0***	***0***	***59***	***2,615***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	24	0	0	24	1,063	0	0	0	0	0	0	0	0	13	0	0	13	567
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	3	0	0	3	132	0	0	0	0	0	0	0	0	1	0	0	1	47
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	16	0	0	16	723	0	0	0	0	0	0	0	0	10	0	0	10	440
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	5	0	0	5	206	0	0	0	0	0	0	0	0	13	0	0	13	575
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	44	0	0	44	1,960	0	0	0	0	0	0	0	0	22	0	0	22	987
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	24	0	0	24	1,052												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***379***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***178***	***0***	***0***	***179***	***7,909***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	46	0	0	47	2,064												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	260												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	22	0	0	22	960												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	32	0	0	32	1,416												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	9	0	0	9	379	0	0	0	0	0	0	0	0	72	0	0	72	3,210												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***1,814***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***170***	***0***	***0***	***171***	***7,572***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***624***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	10	0	0	10	457	0	0	0	0	0	0	0	0	5	0	0	5	210												
Ardenwood-JarvisUtil	45	21	-	0	0	0	0	0	0	0	0	2	0	0	2	101	0	0	0	0	0	0	0	0	1	0	0	1	47												
Ardenwood-JarvisRWPrep	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	166	0	0	0	0	0	0	0	0	7	0	0	7	303												
Ardenwood-JarvisRWProduction	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	198	0	0	0	0	0	0	0	0	8	0	0	8	361												
Ardenwood-JarvisStr	65	-	-	0	0	0	0	0	0	0	0	20	0	0	20	893																									
Ardenwood-JarvisSta	-	239	22														0	0	1	0	0	0	0	0	150	0	0	150	6,652	0	0	0	0	0	0	0	0	14	0	0	14	624
Ardenwood-JarvisRdwy	-	-	-																																						
Jarvis-Thornton				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***156***	***0***	***0***	***157***	***6,944***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Jarvis-ThorntonSW	66	-	-	0	0	0	0	0	0	0	0	24	0	0	24	1,053																									
Jarvis-ThorntonUtil	66	-	-	0	0	0	0	0	0	0	0	5	0	0	5	233																									
Jarvis-ThorntonRWPrep	65	-	-	0	0	0	0	0	0	0	0	18	0	0	19	821																									
Jarvis-ThorntonRWProduction	65	-	-	0	0	0	0	0	0	0	0	28	0	0	28	1,230																									
Jarvis-ThorntonStr	87	-	-	0	0	0	0	0	0	0	0	29	0	0	29	1,293																									
Jarvis-ThorntonRdwy	44	-	-	0	0	0	0	0	0	0	0	52	0	0	52	2,314																									
Thornton-Newark				***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***186***	***0***	***0***	***187***	***8,263***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Thornton-NewarkSW	87	-	-	0	0	0	0	0	0	0	0	27	0	0	27	1,197																									
Thornton-NewarkUtil	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	288																									
Thornton-NewarkRWPrep	88	-	-	0	0	0	0	0	0	0	0	26	0	0	26	1,138																									
Thornton-NewarkRWProduction	88	-	-	0	0	0	0	0	0	0	0	21	0	0	21	942																									
Thornton-NewarkStr	44	-	-	0	0	0	0	0	0	0	0	6	0	0	6	281																									
Thornton-NewarkRdwy	22	-	-	0	0	1	0	0	0	0	0	99	0	0	100	4,417																									
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**135**	**0**	**0**	**136**	**6,963**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**188**	**0**	**0**	**190**	**9,724**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**9**	**467**
Elmhurst-Williams				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***43***	***2,215***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	315																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	3	0	0	3	157																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	7	0	0	7	348																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	19	0	0	20	1,007																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	5	0	0	5	252																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	3	0	0	3	136																									
Williams-MtEden				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***55***	***2,837***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***31***	***0***	***0***	***32***	***1,626***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	0	0	0	0	0	0	9	0	0	9	471	0	0	0	0	0	0	0	0	0	0	0	0	4												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	5	0	0	5	236	0	0	0	0	0	0	0	0	0	0	0	0	2												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	6	0	0	6	325	0	0	0	0	0	0	0	0	9	0	0	9	450												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	16	0	0	17	846	0	0	0	0	0	0	0	0	23	0	0	23	1,170												
Williams-MtEdenStr	143	-	-	0	0	0	0	0	0	0	0	14	0	0	14	723																									
Williams-MtEdenRdwy	44	-	-	0	0	0	0	0	0	0	0	5	0	0	5	236																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***	***0***	***0***	***2***	***116***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***54***	***0***	***0***	***55***	***2,805***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	309												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	154												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	9	0	0	9	465												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	23	0	0	24	1,210												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	2	0	0	2	116	0	0	0	0	0	0	0	0	10	0	0	10	534												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	3	0	0	3	133												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***56***	***2,850***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***20***	***0***	***0***	***20***	***1,048***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	12	0	0	12	609	0	0	0	0	0	0	0	0	3	0	0	3	162
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	3	0	0	3	152	0	0	0	0	0	0	0	0	1	0	0	1	40
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	3	0	0	3	152	0	0	0	0	0	0	0	0	3	0	0	3	148
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	14	0	0	14	716	0	0	0	0	0	0	0	0	13	0	0	14	697
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	15	0	0	15	758												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	9	0	0	9	463												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***1,898***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***29***	***0***	***0***	***29***	***1,493***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	9	0	0	9	460	0	0	0	0	0	0	0	0	3	0	0	3	159
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	2	0	0	2	115	0	0	0	0	0	0	0	0	1	0	0	1	40
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	1	0	0	1	74	0	0	0	0	0	0	0	0	4	0	0	4	185
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	7	0	0	7	349	0	0	0	0	0	0	0	0	17	0	0	17	870
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	9	0	0	10	487	0	0	0	0	0	0	0	0	5	0	0	5	240
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	8	0	0	8	412												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***4***	***0***	***0***	***4***	***183***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***70***	***0***	***0***	***71***	***3,615***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	12	0	0	12	617												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	154												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	5	0	0	5	233												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	21	0	0	21	1,094												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	4	0	0	4	183	0	0	0	0	0	0	0	0	29	0	0	30	1,518												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***23***	***0***	***0***	***24***	***1,209***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***118***	***0***	***0***	***119***	***6,108***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***467***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	6	0	0	6	325	0	0	0	0	0	0	0	0	3	0	0	3	147												

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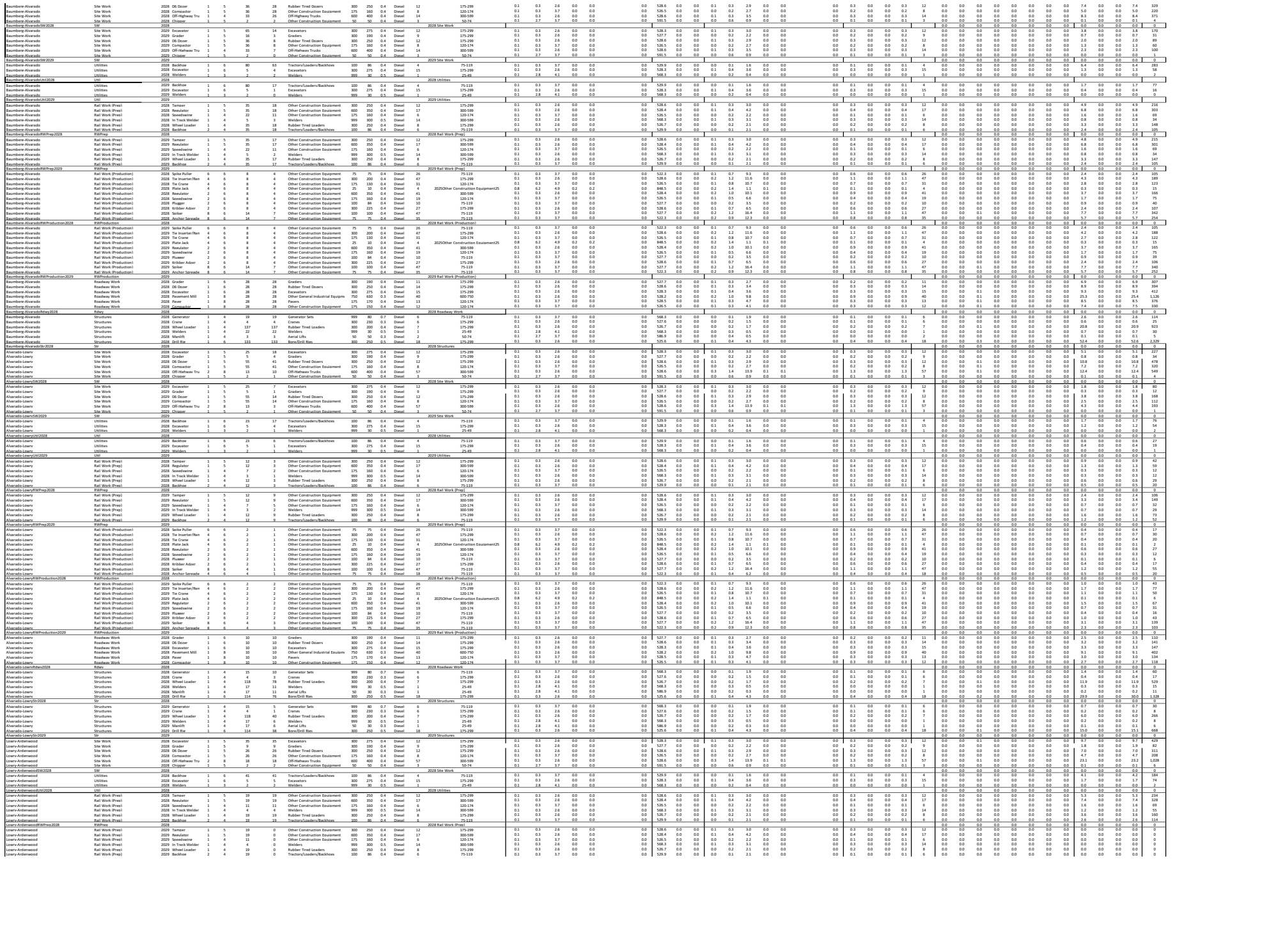
Offroad Calculations | Location: Omsite

Project	Activity	Year	Equip	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	CMOD Equipment Type	HP Bin	HP	LF	Fuel	Fuel (gal/day)	Concat	g/hp-hr (CalEEMod)							Pounds per day							Metric tons per day					Gal per day	Tons per year							Metric tons per year					Gal per Year
															ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	Site Work	2027	Excavator	1	5	65	65	Excavators	300	275	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.3	3.0	0.0	0.0			0.0	533.1	0.0	0.0	0.0	13	0.0	0.0	0.1	0.0	0.0			0.0	0.0	0.0	0.0	0.0	13	0.0	0.0	0.1	0.0	0.0	0.0	0.0	17.9	0.0	0.0	18.0	797
Elmhurst-Williams	Site Work	2027	Grader	1	5	14	14	Graders	300	190	0.4	Diesel	9	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.7	0.0	0.0	0.2	2.2	0.0	0.0	0.0			0.0	532.3	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	2.9	128
Elmhurst-Williams	Site Work	2027	D6 Dozer	1	5	41	41	Rubber Tired Dozers	300	250	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.9	0.0	0.0			0.0	533.4	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.8	480
Elmhurst-Williams	Site Work	2027	Compactor	1	5	41	41	Other Construction Equipment	175	160	0.4	Diesel	8	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	7.3	321
Elmhurst-Williams	Site Work	2027	Off-Highway Tru	1	4	33	33	Off-Highway Trucks	600	400	0.4	Diesel	14	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.6	0.0	0.0			0.0	533.4	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	10.6	471
Elmhurst-Williams	Site Work	2027	Chipper	1	5	2	2	Other Construction Equipment	50	50	0.4	Diesel	3	50-74	0.1	2.7	3.7	0.0	0.0			0.0	591.5	0.0	0.0	0.1	2.7	3.7	0.0	0.0			0.0	597.9	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
Elmhurst-WilliamsSW2027	SW	2027						2027 Site Work																																														
Elmhurst-Williams	Utilities	2027	Backhoe	1	6	67	67	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	4	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.1	1.6	0.0	0.0				0.0	533.8	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	6.8	301
Elmhurst-Williams	Utilities	2027	Excavator	1	6	10	10	Excavators	300	275	0.4	Diesel	15	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.4	3.6	0.0	0.0			0.0	533.3	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	147
Elmhurst-Williams	Utilities	2027	Welders	1	3	5	5	Welders	999	30	0.5	Diesel	1	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.2	0.4	0.0	0.0			0.0	573.1	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	5
Elmhurst-WilliamsUtil2027	Util	2027						2027 Utilities																																														
Elmhurst-Williams	Rail Work (Prep)	2027	Tamper	1	5	40	40	Other Construction Equipment	300	250	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	3.0	0.0	0.0			0.0	533.4	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	11.1	493
Elmhurst-Williams	Rail Work (Prep)	2027	Reeulator	1	5	40	40	Other Construction Equipment	600	350	0.4	Diesel	17	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.4	0.0	0.0	0.1	0.4	4.2	0.0	0.0			0.0	533.2	0.0	0.0	0.0	17	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.0	15.6	690
Elmhurst-Williams	Rail Work (Prep)	2027	Speedswine	1	4	22	22	Other Construction Equipment	175	160	0.4	Diesel	6	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.2	2.2	0.0	0.0			0.0	531.0	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	3.1	138
Elmhurst-Williams	Rail Work (Prep)	2027	In Track Welder	1	4	6	6	Welders	999	30	0.5	Diesel	14	300-599	0.1	0.3	2.6	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.3	3.1	0.0	0.0			0.0	573.1	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.8	82
Elmhurst-Williams	Rail Work (Prep)	2027	Wheel Loader	1	4	34	34	Rubber Tired Loaders	300	250	0.4	Diesel	8	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.2	0.2	2.1	0.0	0.0			0.0	531.2	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	6.5	286
Elmhurst-Williams	Rail Work (Prep)	2027	Backhoe	2	4	34	34	Tractors/Loaders/Backhoes	100	86	0.4	Diesel	6	75-119	0.1	0.3	3.7	0.0	0.0			0.0	529.9	0.0	0.0	0.1	1.2	0.0	0.0	0.0			0.0	533.8	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	204
Elmhurst-WilliamsRWPrep2027	RWPrep	2027						2027 Rail Work (Prep)																																														
Elmhurst-Williams	Rail Work (Production)	2027	Spike Puller	6	6	7	7	Other Construction Equipment	75	75	0.4	Diesel	26	75-119	0.1	0.3	3.7	0.0	0.0			0.0	522.3	0.0	0.0	0.1	0.7	9.3	0.0	0.0			0.0	532.1	0.0	0.0	0.0	26	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	176
Elmhurst-Williams	Rail Work (Production)	2027	Tie Inserter/Ren	4	6	7	7	Other Construction Equipment	300	200	0.4	Diesel	47	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.2	1.2	11.6	0.0	0.0			0.0	541.5	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	7.1	316
Elmhurst-Williams	Rail Work (Production)	2027	Tie Crane	4	6	7	7	Other Construction Equipment	175	130	0.4	Diesel	31	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.1	0.8	10.7	0.0	0.0			0.0	537.9	0.0	0.0	0.0	31	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	205
Elmhurst-Williams	Rail Work (Production)	2027	Plate Jack	4	6	7	7	Other Construction Equipment	25	10	0.4	Diesel	4	2025Other Construction Equipment25	0.8	6.2	4.9	0.2	0.2			0.0	848.5	0.0	0.0	0.2	1.4	1.1	0.1	0.0			0.0	851.4	0.0	0.0	0.0	4	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	27
Elmhurst-Williams	Rail Work (Production)	2027	Reeulator	2	6	7	7	Other Construction Equipment	600	350	0.4	Diesel	41	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.4	0.0	0.0	0.2	1.0	10.1	0.0	0.0			0.0	539.9	0.0	0.0	0.0	41	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	6.2	277
Elmhurst-Williams	Rail Work (Production)	2027	Speedswing	2	6	7	7	Other Construction Equipment	175	160	0.4	Diesel	19	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	2.8	126
Elmhurst-Williams	Rail Work (Production)	2027	Plueser	2	6	7	7	Other Construction Equipment	100	84	0.4	Diesel	10	75-119	0.1	0.3	3.7	0.0	0.0			0.0	527.7	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.9	0.0	0.0	0.0	10	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	1.5	66
Elmhurst-Williams	Rail Work (Production)	2027	Bolter Adzer	2	6	7	7	Other Construction Equipment	300	225	0.4	Diesel	27	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.7	0.0	0.0			0.0	533.4	0.0	0.0	0.0	27	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	178
Elmhurst-Williams	Rail Work (Production)	2027	Spiker	8	6	14	14	Other Construction Equipment	100	100	0.4	Diesel	47	75-119	0.1	0.3	3.7	0.0	0.0			0.0	527.7	0.0	0.0	0.2	1.2	16.4	0.0	0.0			0.0	545.4	0.0	0.0	0.0	47	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	11.2	492
Elmhurst-Williams	Rail Work (Production)	2027	Anchor Separade	8	6	14	14	Other Construction Equipment	75	75	0.4	Diesel	35	75-119	0.1	0.3	3.7	0.0	0.0			0.0	522.3	0.0	0.0	0.2	0.9	12.3	0.0	0.0			0.0	535.5	0.0	0.0	0.0	35	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	8.4	371
Elmhurst-WilliamsRWProduction2027	RWProduction	2027						2027 Rail Work (Production)																																													
Elmhurst-Williams	Structures	2027	Generator	1	4	15	15	Generator Sets	999	80	0.7	Diesel	6	75-119	0.1	0.3	3.7	0.0	0.0			0.0	568.3	0.0	0.0	0.1	1.9	0.0	0.0	0.0			0.0	573.1	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	90
Elmhurst-Williams	Structures	2027	Crane	1	4	22	22	Cranes	300	230	0.3	Diesel	6	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.6	0.0	0.0	0.0	0.2	1.5	0.0	0.0			0.0	531.2	0.0	0.0	0.0	6	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
Elmhurst-Williams	Structures	2027	Wheel Loader	1	4	33	33	Rubber Tired Loaders	300	200	0.4	Diesel	7	175-299	0.1	0.3	2.6	0.0	0.0			0.0	526.7	0.0	0.0	0.0	0.2	1.7	0.0	0.0			0.0	530.6	0.0	0.0	0.0	7	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	8
Elmhurst-Williams	Structures	2027	Welders	1	4	10	10	Welders	999	30	0.5	Diesel	1	25-49	0.1	2.8	4.1	0.0	0.0			0.0	568.3	0.0	0.0	0.1	0.2	0.5	0.0	0.0			0.0	573.1	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	4
Elmhurst-Williams	Structures	2027	Roush Terrain F	1	3	10	10	Forklifts	75	75	0.2	Diesel	1	75-119	0.1	0.3	3.7	0.0	0.0			0.0	520.5	0.0	0.0	0.0	0.4	0.4	0.0	0.0			0.0	521.3	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	10
Elmhurst-Williams	Structures	2027	Drill Rig	1	6	11	11	Bore/Drill Rigs	300	250	0.5	Diesel	18	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	4.3	0.0	0.0			0.0	534.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	14
Elmhurst-WilliamsStr2027	Str	2027						2027 Structures																																													
Elmhurst-Williams	Roadway Work	2027	Grader	1	6	16	16	Graders	300	190	0.4	Diesel	11	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.7	0.0	0.0	0.1	0.3	2.7	0.0	0.0			0.0	532.3	0.0	0.0	0.0	11	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	4.0	175
Elmhurst-Williams	Roadway Work	2027	D6 Dozer	1	6	16	16	Rubber Tired Dozers	300	250	0.4	Diesel	14	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	3.4	0.0	0.0			0.0	533.5	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	5.1	225
Elmhurst-Williams	Roadway Work	2027	Excavator	1	6	16	16	Excavators	300	275	0.4	Diesel	15	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.4	3.6	0.0	0.0			0.0	533.3	0.0	0.0	0.0	15	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.8	167
Elmhurst-Williams	Roadway Work	2027	Pavement Mill	1	8	16	16	Other General Industrial Equipm	750	630	0.3	Diesel	40	600-750	0.1	0.3	2.6	0.0	0.0			0.0	528.2	0.0	0.0	0.2	1.0	9.8	0.0	0.0			0.0	539.0	0.0	0.0	0.0	40	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	14.5	643
Elmhurst-Williams	Roadway Work	2027	Paver	1	8	16	16	Pavers	175	170	0.4	Diesel	13	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.1	0.3	4.7	0.0	0.0			0.0	534.5	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	4.8	215
Elmhurst-Williams	Roadway Work	2027	Compactor	1	8	16	16	Other Construction Equipment	175	160	0.4	Diesel	8	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	4.3	189
Elmhurst-WilliamsRdwy2027	Rdwy	2027						2027 Roadway Work																																													
Williams-Mitden	Site Work	2027	Excavator	1	5	105	104	Excavators	300	275	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.3	0.0	0.0	0.1	0.3	3.0	0.0	0.0			0.0	533.1	0.0	0.0	0.0	12	0.0	0.0	0.1	0.0	0.0			0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8	0.0	0.0	28.8	1,278
Williams-Mitden	Site Work	2027	Grader	1	5	27	27	Graders	300	190	0.4	Diesel	9	175-299	0.1	0.3	2.6	0.0	0.0			0.0	527.7	0.0	0.0	0.2	2.2	0.0	0.0	0.0			0.0	532.3	0.0	0.0	0.0	9	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	5.5	245
Williams-Mitden	Site Work	2027	D6 Dozer	1	5	89	88	Rubber Tired Dozers	300	250	0.4	Diesel	12	175-299	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.9	0.0	0.0			0.0	533.4	0.0	0.0	0.0	12	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	10.8	480
Williams-Mitden	Site Work	2027	Compactor	1	5	89	88	Other Construction Equipment	175	160	0.4	Diesel	8	120-174	0.1	0.3	3.7	0.0	0.0			0.0	526.5	0.0	0.0	0.2	0.3	3.7	0.0	0.0			0.0	532.7	0.0	0.0	0.0	8	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	7.2	321
Williams-Mitden	Site Work	2027	Off-Highway Tru	1	4	53	53	Off-Highway Trucks	600	400	0.4	Diesel	14	300-599	0.1	0.3	2.6	0.0	0.0			0.0	528.6	0.0	0.0	0.1	0.3	2.6	0.0	0.0			0.0	533.4	0.0	0.0	0.0	14	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	10.6	471
Williams-Mitden	Site Work	2027	Chipper	1	5	0	0	Other Construction Equipment	50	50	0.4	Diesel	3	50-74	0.1	2.7	3.7	0.0	0.0			0.0	591.5	0.0	0.0	0.1	2.7	3.7	0.0	0.0			0.0	597.9	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	6
Williams-MittenSW2027	SW	2027						2027 Site Work																																												
Williams-Mitden	Site Work	2028	Exc



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Employee Onroad Calculations | Location | Onsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle	g/mi (EMFAC, AP-42)														Process g/trip (EMFAC)													Pounds per day													Metric tons per day					Gal per day
													2	3	4	5	7	8	9	10	11	12	13	14	15	16	18	17	19	20	21	22	23	24																									
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	Elmhurst-WilliamsSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Elmhurst-Williams	Elmhurst-WilliamsUtil2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.1	1.1	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0.0	0	7
Elmhurst-Williams	Elmhurst-WilliamsRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.3	0.2	3.1	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
Elmhurst-Williams	Elmhurst-WilliamsRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.8	0.2	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
Elmhurst-Williams	Elmhurst-WilliamsSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Elmhurst-Williams	Elmhurst-WilliamsUtil2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.1	1.0	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.2	0.2	2.9	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	18
Elmhurst-Williams	Elmhurst-WilliamsRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.2	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
Elmhurst-Williams	Elmhurst-WilliamsSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Elmhurst-Williams	Elmhurst-WilliamsUtil2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	6	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.1	0.9	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.2	0.2	2.7	0.0	0.0	3.1	0.8	0.0	0	0.0	0.0	0.0	0	18
Elmhurst-Williams	Elmhurst-WilliamsRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.9	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	6
Elmhurst-Williams	Elmhurst-WilliamsStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	5	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Williams-MtEden	Williams-MtEdenUtil2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Williams-MtEden	Williams-MtEdenRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.2	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0.0	0	7
Williams-MtEden	Williams-MtEdenRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.3	0.2	3.1	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
Williams-MtEden	Williams-MtEdenRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.9	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
Williams-MtEden	Williams-MtEdenUtil2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Williams-MtEden	Williams-MtEdenRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.7	0.2	0.0	0.7	0.2	0.0	0	0.0	0.0	0.0	0	7
Williams-MtEden	Williams-MtEdenRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.2	0.2	2.9	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	18
Williams-MtEden	Williams-MtEdenRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.0	0.0	1.0	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	3	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	3
Williams-MtEden	Williams-MtEdenUtil2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
Williams-MtEden	Williams-MtEdenRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	1.1	0.0	0.0	1.2	0.3	0.0	0	0.0	0.0	0.0	0	7
Williams-MtEden	Williams-MtEdenRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	18	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.2	0.2	2.7	0.0	0.0	3.1	0.8	0.0	0	0.0	0.0	0.0	0	18
Williams-MtEden	Williams-MtEdenRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	5	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Williams-MtEden	Williams-MtEdenStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.7	0.0	0.0	1.3	0.3	0.0	281	0.0	0.0	0.9	0.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	72.0	0.1	0.0	0.1	0.1	0.7	0.0	0.0	0.8	0.2	0.0	0	0.0	0.0	0.0	0	5
MtEden-Baumberg	MtEden-BaumbergSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
MtEden-Baumberg	MtEden-BaumbergUtil2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
MtEden-Baumberg	MtEden-BaumbergRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.2	0.0	0.0	1.3	0.3	0.0	0	0.0	0.0	0.0	0	7
MtEden-Baumberg	MtEden-BaumbergRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.3	0.2	3.1	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
MtEden-Baumberg	MtEden-BaumbergRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
MtEden-Baumberg	MtEden-BaumbergStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	292	0.0	0.0	0.9	0.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	75.4	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
MtEden-Baumberg	MtEden-BaumbergSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	4	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.6	0.2	0.0	0.6	0.2	0.0	0	0.0	0.0	0.0	0	4
MtEden-Baumberg	MtEden-BaumbergUtil2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	2	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.3	0.1	0.0	0	0.0	0.0	0.0	0	2
MtEden-Baumberg	MtEden-BaumbergRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	7	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.0	0.0	0.7	0.2	0.0	0.7	0.2	0.0	0	0.0	0.0	0.0	0	7
MtEden-Baumberg	MtEden-BaumbergRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	19	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.2	0.2	2.9	0.0	0.0	3.4	0.8	0.0	0	0.0	0.0	0.0	0	19
MtEden-Baumberg	MtEden-BaumbergRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	6	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	1.0	0.0	0.0	1.1	0.3	0.0	0	0.0	0.0	0.0	0	6
MtEden-Baumberg	MtEden-BaumbergStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	5	LDA-LDT	0.0	0.1	0.8	0.0	0.0	1.3	0.3	0.0	287	0.0	0.0	0.9	0.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	73.6	0.1	0.0	0.1	0.1	0.8	0.0	0.0	0.9	0.2	0.0	0	0.0	0.0	0.0	0	5
Baumberg-Alvarado	Baumbera-AlvaradoSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40

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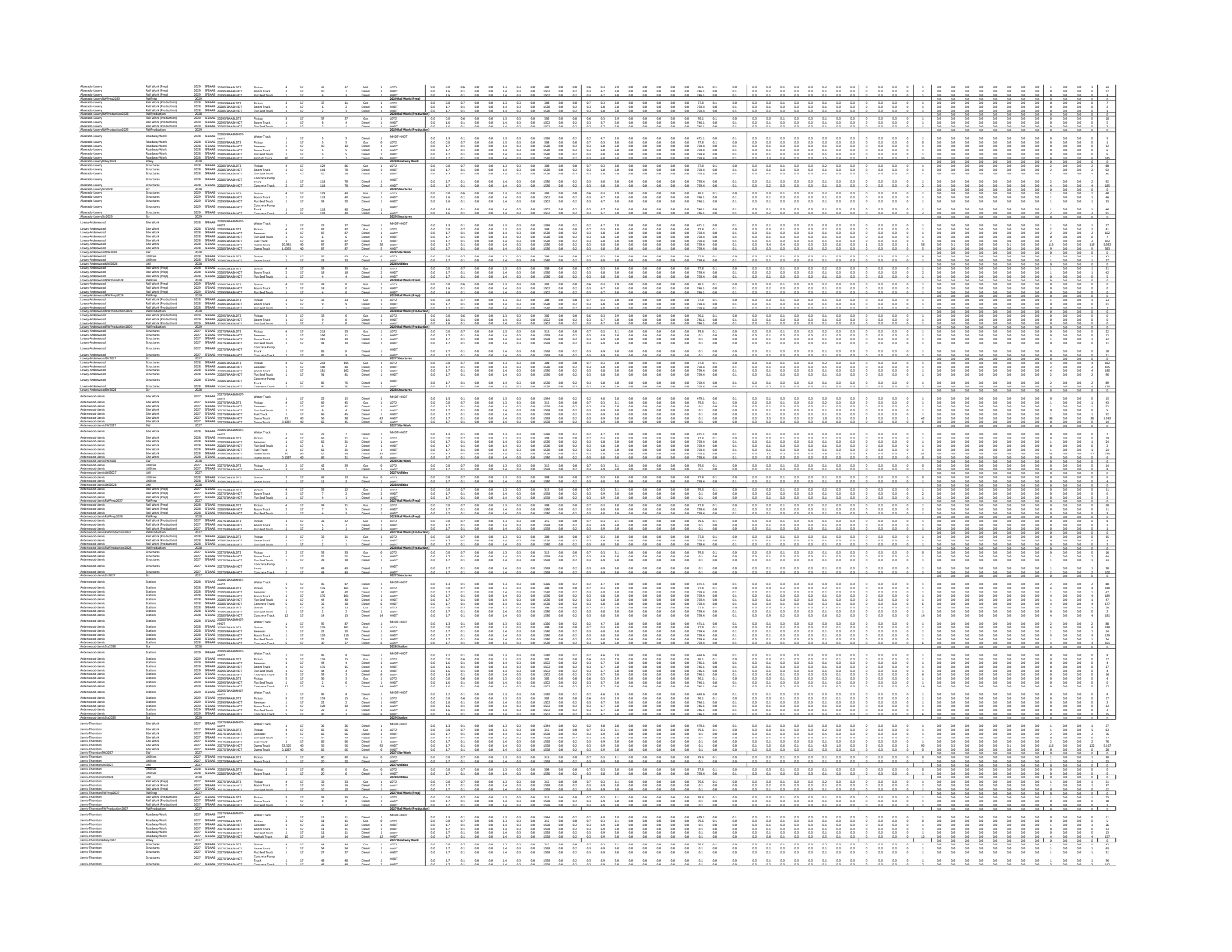
Offsite Onroad Calculations | Location | Offsite

| Project | Activity | Year | Air Basin | Concat | Vehicle | Trucks | RT MI/ Truck | Equipment Days | Year Adjustment | Fuel | Fuel (gal/day) | Vehicle | g/mi (EMFAC AP 42) | | | | | | | | | | | | Process g/trip (EMFAC) | | | | | | | | | | | | Pounds per day | | | | | | | | | | | | Metric tons per day | | | | | | Gal per day | Tons per year | | | | | | | | | | | | Metric tons per year | | | | | | Gal per |
|---|---|---



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Locomotive Calculations | Location | Offsite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr										Pounds per day								Metric tons per day				Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	14	14	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	37.8	0.0	0.0	38.1	1,678
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	21	21	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.9	1.7	0.0	0.0	0.0	0.0	0.0	406.5	0.0	0.0	410.5	18,058
Elmhurst-WilliamsRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	1.0	1.8	0.0	0.0	0.0	0.0	0.0	444.2	0.0	0.0	448.6	19,736
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	14	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	21	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	14	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	21	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	23	10	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0	26.0	1,142
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	44	18	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.8	1.4	0.0	0.0	0.0	0.0	0.0	353.0	0.0	0.0	356.5	15,682
Williams-MtEdenRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	0.8	1.5	0.0	0.0	0.0	0.0	0.0	378.7	0.0	0.0	382.4	16,825
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	23	13	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	36.3	0.0	0.0	36.7	1,614
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	44	26	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	1.1	2.0	0.0	0.0	0.0	0.0	0.0	498.7	0.0	0.0	503.6	22,154
Williams-MtEdenRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	1.2	2.2	0.0	0.0	0.0	0.0	0.0	535.0	0.0	0.0	540.3	23,768
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	23	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	44	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	13	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	28	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	13	13	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	35.1	0.0	0.0	35.4	1,558
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	28	28	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	1.2	2.2	0.0	0.0	0.0	0.0	0.0	542.0	0.0	0.0	547.3	24,078
MtEden-BaumbergRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	1.3	2.4	0.0	0.0	0.0	0.0	0.0	577.0	0.0	0.0	582.7	25,636
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	13	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	28	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	14	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	31	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-AlvaradoRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	14	7	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	18.9	0.0	0.0	19.1	842
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	31	16	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.7	1.2	0.0	0.0	0.0	0.0	0.0	301.0	0.0	0.0	304.0	13,373
Baumberg-AlvaradoRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	0.7	1.3	0.0	0.0	0.0	0.0	0.0	320.0	0.0	0.0	323.1	14,215
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	14	7	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	19.0	836
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	31	15	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.1	0.7	1.2	0.0	0.0	0.0	0.0	0.0	299.0	0.0	0.0	302.0	13,284
Baumberg-AlvaradoRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.1	0.7	1.3	0.0	0.0	0.0	0.0	0.0	317.8	0.0	0.0	321.0	14,121
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	5	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	6	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-LowryRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	5	1	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	169
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	6	2	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	32.8	0.0	0.0	33.2	1,459
Alvarado-LowryRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	36.6	0.0	0.0	37.0	1,628
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	5	4	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	9.8	430
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	6	4	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	83.3	0.0	0.0	84.1	3,701
Alvarado-LowryRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	93.9	4,131
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	8	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	11	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	8	8	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	21.8	959
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	11	11	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.5	0.9	0.0	0.0	0.0	0.0	0.0	212.9	0.0	0.0	215.0	9,459
Lowry-ArdenwoodRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	234.5	0.0	0.0	236.8	10,418
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	8	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	11	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	4	1	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	170
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	10	14	5	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	95.9	0.0	0.0	96.8	4,260
Ardenwood-JarvisRWPrep2027	RWPrep2027																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	99.7	0.0	0.0	100.7	4,430
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	3	4	3	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	7.0	310
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	4	2	10	14	9	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	175.1	0.0	0.0	176.8	7,779
Ardenwood-JarvisRWPrep2028	RWPrep2028																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	182.1	0.0	0.0	183.9	8,089
Ardenwood-Jarvis	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	3	4	0	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-Jarvis	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	4	2	10	14	0	4400	0.4	Diesel	860								0.0	494.0	0.0	0.0	7.3	86.4	158.1	1.3	1.3			0.4	19.4	0.0	0.0	19.5	860	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-JarvisRWPrep2029	RWPrep2029																							8.3	98.4	180.1	1.5	1.4	0.0	0.0	0.5	22.1	0.0	0.0	22.3	980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Jarvis-Thornton	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	4	2	3	7	7	4400	0.2	Diesel	120								0.0	494.0	0.0	0.0	1.0	12.0	22.0	0.2	0.2			0.1	2.7	0.0	0.0	2.7	120	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	18.9	0.0

Earth Moving Calculations Location Onsite

Code	Activity	Days 2027	Days 2028	Days 2029	Grading (acres/day)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	Pounds per day ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	Metric tons per day CO2	CH4	N2O	CO2e	Gal per day Fuel
Elmhurst-Williams																										
Elmhurst-WilliamsSW	Site Work	87	-	-	0.625	57,289	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	54	-	-	-	25,639	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Elmhurst-WilliamsRWProduction	Rail Work (Production)	54	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Elmhurst-WilliamsStr	Structures	54	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Elmhurst-WilliamsRdwy	Roadway Work	22	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Elmhurst-WilliamsUtil	Utilities	87	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEden		-	-	-	-		-																			
Williams-MtEdenSW	Site Work	130	1	-	0.625	75,270	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Williams-MtEdenRWPrep	Rail Work (Prep)	45	64	-	-	42,377	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEdenRWProduction	Rail Work (Production)	45	64	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEdenStr	Structures	143	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Williams-MtEdenRdwy	Roadway Work	44	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Williams-MtEdenUtil	Utilities	130	1	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-Baumberg		-	-	-	-		-																			
MtEden-BaumbergSW	Site Work	-	87	-	0.625	52,021	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
MtEden-BaumbergRWPrep	Rail Work (Prep)	-	66	-	-	22,376	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-BaumbergRWProduction	Rail Work (Production)	-	66	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-BaumbergStr	Structures	23	108	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
MtEden-BaumbergRdwy	Roadway Work	-	22	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
MtEden-BaumbergUtil	Utilities	-	87	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-Alvarado		-	-	-	-		-																			
Baumberg-AlvaradoSW	Site Work	-	86	23	0.625	56,924	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	-	43	43	-	25,067	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-AlvaradoRWProductior	Rail Work (Production)	-	43	43	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-AlvaradoStr	Structures	-	153	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Baumberg-AlvaradoRdwy	Roadway Work	-	44	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Baumberg-AlvaradoUtil	Utilities	-	86	23	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-Lowry		-	-	-	-		-																			
Alvarado-LowrySW	Site Work	-	65	23	0.625	32,184	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Alvarado-LowryRWPrep	Rail Work (Prep)	-	21	53	-	7,084	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-LowryRWProduction	Rail Work (Production)	-	21	53	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-LowryStr	Structures	-	86	43	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Alvarado-LowryRdwy	Roadway Work	-	31	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Alvarado-LowryUtil	Utilities	-	65	23	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-Ardenwood		-	-	-	-		-																			
Lowry-ArdenwoodSW	Site Work	-	87	-	0.625	21,872	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.7	0.8						
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	-	66	-	-	12,520	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-ArdenwoodRWProduction	Rail Work (Production)	-	66	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-ArdenwoodStr	Structures	23	195	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Lowry-ArdenwoodRdwy	Roadway Work	-	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2													
Lowry-ArdenwoodUtil	Utilities	-	87	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-Jarvis		-	-	-	-		-																			
Ardenwood-JarvisSW	Site Work	45	21	-	0.625	11,405	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.7	0.8						
Ardenwood-JarvisRWPrep	Rail Work (Prep)	23	42	-	-	4,942	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisRWProduction	Rail Work (Production)	23	42	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisStr	Structures	65	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisSta	Station	-	239	22	-	10,143	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Ardenwood-JarvisRdwy	Roadway Work	-	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2													
Ardenwood-JarvisUtil	Utilities	45	21	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-Thornton		-	-	-	-		-																			
Jarvis-ThorntonSW	Site Work	66	-	-	0.625	25,091	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Jarvis-ThorntonRWPrep	Rail Work (Prep)	65	-	-	-	10,873	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-ThorntonRWProduction	Rail Work (Production)	65	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-ThorntonStr	Structures	87	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Jarvis-ThorntonRdwy	Roadway Work	44	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Jarvis-ThorntonUtil	Utilities	66	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-Newark		-	-	-	-		-																			
Thornton-NewarkSW	Site Work	87	-	-	0.625	26,857	5	0.4	0.0447	0.0001	0.0000	0.3	0.2						1.8	0.8						
Thornton-NewarkRWPrep	Rail Work (Prep)	88	-	-	-	18,029	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-NewarkRWProduction	Rail Work (Production)	88	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-NewarkStr	Structures	44	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						
Thornton-NewarkRdwy	Roadway Work	22	-	-	0.750	-	6	0.4	0.0447	0.0001	0.0000	0.3	0.2						2.1	1.0						
Thornton-NewarkUtil	Utilities	87	-	-	-	-	-	0.4	0.0447	0.0001	0.0000	0.3	0.2						0.0	0.0						

Paving Calculations Location Onsite

Code	Days	Paved (acres)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams																
Elmhurst-WilliamsSW	87	0.9	2.6	0.0												
Elmhurst-WilliamsRW																
Elmhurst-WilliamsStr																
Williams-MtEden																
Williams-MtEdenSW	131	3.5	2.6	0.1												
Williams-MtEdenRW																
Williams-MtEdenStr																
MtEden-Baumberg																
MtEden-BaumbergSW	87	1.3	2.6	0.0												
MtEden-BaumbergRW																
MtEden-BaumbergStr																
Baumberg-Alvarado																
Baumberg-AlvaradoSW	109	2.4	2.6	0.1												
Baumberg-AlvaradoRW																
Baumberg-AlvaradoStr																
Alvarado-Lowry																
Alvarado-LowrySW	88	2.8	2.6	0.1												
Alvarado-LowryRW																
Alvarado-LowryStr																
Lowry-Ardenwood																
Lowry-ArdenwoodSW	87	-	2.6	0.0												
Lowry-ArdenwoodRW																
Lowry-ArdenwoodStr																
Ardenwood-Jarvis																
Ardenwood-JarvisSta	261	13.2	2.6	0.1												
Ardenwood-JarvisRW																
Ardenwood-JarvisStr																
Jarvis-Thornton																
Jarvis-ThorntonSW	66	1.8	2.6	0.1												
Jarvis-ThorntonRW																
Jarvis-ThorntonStr																
Thornton-Newark																
Thornton-NewarkSW	87	3.1	2.6	0.1												
Thornton-NewarkRW																
Thornton-NewarkStr																

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor			
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX
Elmhurst-Williams						
Elmhurst-WilliamsSW	87	632	0.014	0.002		
Elmhurst-WilliamsRW						
Elmhurst-WilliamsStr						
Williams-MtEden						
Williams-MtEdenSW	131	253	0.014	0.002		
Williams-MtEdenRW						
Williams-MtEdenStr						
MtEden-Baumberg						
MtEden-BaumbergSW	87	126	0.014	0.002		
MtEden-BaumbergRW						
MtEden-BaumbergStr						
Baumberg-Alvarado						
Baumberg-AlvaradoSW	109	253	0.014	0.002		
Baumberg-AlvaradoRW						
Baumberg-AlvaradoStr						
Alvarado-Lowry						
Alvarado-LowrySW	88	253	0.014	0.002		
Alvarado-LowryRW						
Alvarado-LowryStr						
Lowry-Ardenwood						
Lowry-ArdenwoodSW	87	2,528	0.014	0.002		
Lowry-ArdenwoodRW						
Lowry-ArdenwoodStr						
Ardenwood-Jarvis						
Ardenwood-JarvisSW	66	126	0.014	0.002		
Ardenwood-JarvisRW						
Ardenwood-JarvisStr						
Jarvis-Thornton						
Jarvis-ThorntonSW	66	126	0.014	0.002		
Jarvis-ThorntonRW						
Jarvis-ThorntonStr						
Thornton-Newark						
Thornton-NewarkSW	87	126	0.014	0.002		
Thornton-NewarkRW						
Thornton-NewarkStr						

Pounds per day						Metric tons per day				Gal per day
CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
			0.1	0.0						
			0.0	0.0						
			0.0	0.0						
			0.0	0.0						
			0.0	0.0						
			0.4	0.1						
			0.0	0.0						
			0.0	0.0						

Alternative E – Unmitigated Emissions Calculation Sheet

Code	Description	Start Date	Working Days	2027	2028	2029		End Date
Elmhurst-Williams	Elmhurst to Williams St. Crossing							
Elmhurst-WilliamsSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsRWProduction	Rail Work (Production)	6/1/2027	54	54	0	0	-	8/15/2027
Elmhurst-WilliamsStr	Structures	4/1/2027	54	54	0	0	-	6/15/2027
Elmhurst-WilliamsRdwy	Roadway Work	5/1/2027	22	22	0	0	-	6/1/2027
Williams-MtEden	Williams St. Crossing to N. Mt Eden Siding						-	
Williams-MtEdenSW	Site Work	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenUtil	Utilities	7/1/2027	131	130	1	0	-	1/1/2028
Williams-MtEdenRWPrep	Rail Work (Prep)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenRWProduction	Rail Work (Production)	11/1/2027	109	45	64	0	-	4/1/2028
Williams-MtEdenStr	Structures	5/15/2027	143	143	0	0	-	12/1/2027
Williams-MtEdenRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
MtEden-Baumberg	N. Mt. Eden Siding to Baumberg Ave.						-	
MtEden-BaumbergSW	Site Work	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergUtil	Utilities	3/1/2028	87	0	87	0	-	7/1/2028
MtEden-BaumbergRWPrep	Rail Work (Prep)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergRWProduction	Rail Work (Production)	5/1/2028	66	0	66	0	-	8/1/2028
MtEden-BaumbergStr	Structures	12/1/2027	131	23	108	0	-	6/1/2028
MtEden-BaumbergRdwy	Roadway Work	5/1/2028	22	0	22	0	-	6/1/2028
Baumberg-Alvarado	Baumberg Ave. Crossing to Alvarado Blvd Crossing						-	
Baumberg-AlvaradoSW	Site Work	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoUtil	Utilities	9/1/2028	109	0	86	23	-	2/1/2029
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoRWProduction	Rail Work (Production)	11/1/2028	86	0	43	43	-	3/1/2029
Baumberg-AlvaradoStr	Structures	5/1/2028	153	0	153	0	-	12/1/2028
Baumberg-AlvaradoRdwy	Roadway Work	9/1/2028	44	0	44	0	-	11/1/2028
Alvarado-Lowry	Alvarado Blvd Crossing to Lowry Road OP						-	
Alvarado-LowrySW	Site Work	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryUtil	Utilities	10/1/2028	88	0	65	23	-	2/1/2029
Alvarado-LowryRWPrep	Rail Work (Prep)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryRWProduction	Rail Work (Production)	12/1/2028	74	0	21	53	-	3/15/2029
Alvarado-LowryStr	Structures	9/1/2028	129	0	86	43	-	3/1/2029
Alvarado-LowryRdwy	Roadway Work	4/1/2028	31	0	31	0	-	5/15/2028
Lowry-Ardenwood	Lowry Rd OP to Ardenwood Blvd. OP						-	
Lowry-ArdenwoodSW	Site Work	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodUtil	Utilities	6/1/2028	87	0	87	0	-	10/1/2028
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodRWProduction	Rail Work (Production)	7/1/2028	66	0	66	0	-	10/1/2028
Lowry-ArdenwoodStr	Structures	12/1/2027	218	23	195	0	-	10/1/2028
Lowry-ArdenwoodRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Ardenwood-Jarvis	Ardenwood Blvd OP to Jarvis Rd.						-	
Ardenwood-JarvisSW	Site Work	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisUtil	Utilities	11/1/2027	66	45	21	0	-	2/1/2028
Ardenwood-JarvisRWPrep	Rail Work (Prep)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisRWProduction	Rail Work (Production)	12/1/2027	65	23	42	0	-	3/1/2028
Ardenwood-JarvisStr	Structures	9/1/2027	65	65	0	0	-	12/1/2027
Ardenwood-JarvisSta	Station	2/1/2028	261	0	239	22	-	2/1/2029
Ardenwood-JarvisRdwy	Roadway Work	N/A	0	0	0	0	-	N/A
Jarvis-Thornton	Jarvis Rd. to Thornton Ave.						-	
Jarvis-ThorntonSW	Site Work	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonUtil	Utilities	8/1/2027	66	66	0	0	-	11/1/2027
Jarvis-ThorntonRWPrep	Rail Work (Prep)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonRWProduction	Rail Work (Production)	9/1/2027	65	65	0	0	-	12/1/2027
Jarvis-ThorntonStr	Structures	6/1/2027	87	87	0	0	-	10/1/2027
Jarvis-ThorntonRdwy	Roadway Work	9/1/2027	44	44	0	0	-	11/1/2027
Thornton-Newark	Thornton Ave. to S. Newark Yard						-	
Thornton-NewarkSW	Site Work	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkUtil	Utilities	4/1/2027	87	87	0	0	-	8/1/2027
Thornton-NewarkRWPrep	Rail Work (Prep)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkRWProduction	Rail Work (Production)	7/1/2027	88	88	0	0	-	11/1/2027
Thornton-NewarkStr	Structures	4/1/2027	44	44	0	0	-	6/1/2027
Thornton-NewarkRdwy	Roadway Work	7/1/2027	22	22	0	0	-	8/1/2027

Code	Working Days			2027												2028												2029											
				Tons per year							Metric tons per year				Gal/yr	Tons per year								Metric tons per year				Gal/year	Tons per year								Metric tons per year				Gal/yr
	2027	2028	2029	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	COZe	Fuel
Alternative E				**1**	**20**	**11**	**0**	**0**	**2**	**1**	**0**	**3,498**	**0**	**0**	**3,557**	**344,711**	**2**	**25**	**13**	**1**	**1**	**2**	**1**	**0**	**3,969**	**0**	**0**	**4,033**	**391,765**	**0**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**666**	**0**	**0**	**675**	**65,362**
Off-Road				**1**	**5**	**4**	**0**	**0**	**0**	**0**	**0**	**1054**	**0**	**0**	**1057**	**103,187**	**1**	**5**	**4**	**0**	**0**	**0**	**0**	**0**	**1009**	**0**	**0**	**1013**	**98,849**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**136**	**0**	**0**	**137**	**13,360**
Elmhurst-Williams				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***212***	***0***	***0***	***213***	***20,774***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	50	0	0	50	4,857																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	10	0	0	10	1,000																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	43	0	0	43	4,175																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	57	0	0	57	5,564																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	15	0	0	15	1,469																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	38	0	0	38	3,710																									
Williams-MtEden				***0***	***2***	***2***	***0***	***0***	***0***	***0***	***0***	***440***	***0***	***0***	***442***	***43,135***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***99***	***0***	***0***	***100***	***9,722***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	0	0	0	0	0	0	90	0	0	90	8,828	0	0	0	0	0	0	0	0	1	0	0	1	68												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	17	0	0	17	1,631	0	0	0	0	0	0	0	0	0	0	0	0	13												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	26	0	0	26	2,545	0	0	0	0	0	0	0	0	37	0	0	37	3,596												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	44	0	0	44	4,279	0	1	0	0	0	0	0	0	62	0	0	62	6,046												
Williams-MtEdenStr	143	-	-	0	0	0	0	0	0	0	0	131	0	0	132	12,867																									
Williams-MtEdenRdwy	44	-	-	0	0	1	0	0	0	0	0	133	0	0	133	12,984																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***920***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***206***	***0***	***0***	***206***	***20,145***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	41	0	0	41	3,991												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	10	0	0	10	1,013												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	35	0	0	35	3,421												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	56	0	0	56	5,441												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	9	0	0	9	920	0	0	0	0	0	0	0	0	44	0	0	44	4,310												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	20	0	0	20	1,969												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***240***	***0***	***0***	***241***	***23,529***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***63***	***0***	***0***	***64***	***6,219***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	38	0	0	38	3,675	0	0	0	0	0	0	0	0	10	0	0	10	995
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	8	0	0	8	755	0	0	0	0	0	0	0	0	2	0	0	2	204
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	20	0	0	20	1,932	0	0	0	0	0	0	0	0	20	0	0	20	1,919
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	32	0	0	32	3,122	0	0	0	0	0	0	0	0	32	0	0	32	3,101
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	77	0	0	77	7,554												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	66	0	0	67	6,492												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***116***	***0***	***0***	***116***	***11,323***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***59***	***0***	***0***	***59***	***5,765***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	24	0	0	24	2,342	0	0	0	0	0	0	0	0	13	0	0	13	1,250
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	3	0	0	3	292	0	0	0	0	0	0	0	0	1	0	0	1	103
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	16	0	0	16	1,593	0	0	0	0	0	0	0	0	10	0	0	10	969
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	5	0	0	5	455	0	0	0	0	0	0	0	0	13	0	0	13	1,268
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	44	0	0	44	4,322	0	0	0	0	0	0	0	0	22	0	0	22	2,175
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	24	0	0	24	2,319												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***835***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***178***	***0***	***0***	***179***	***17,437***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	46	0	0	47	4,550												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	573												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	22	0	0	22	2,116												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	32	0	0	32	3,123												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	9	0	0	9	835	0	0	0	0	0	0	0	0	72	0	0	72	7,076												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***41***	***0***	***0***	***41***	***3,998***	***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***170***	***0***	***0***	***171***	***16,693***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***14***	***0***	***0***	***14***	***1,376***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	10	0	0	10	1,006	0	0	0	0	0	0	0	0	5	0	0	5	463												
Ardenwood-JarvisUtil	45	21	-	0	0	0	0	0	0	0	0	2	0	0	2	223	0	0	0	0	0	0	0	0	1	0	0	1	103												
Ardenwood-JarvisRWPrep	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	365	0	0	0	0	0	0	0	0	7	0	0	7	667												
Ardenwood-JarvisRWProduction	23	42	-	0	0	0	0	0	0	0	0	4	0	0	4	436	0	0	0	0	0	0	0	0	8	0	0	8	796												
Ardenwood-JarvisStr	65	-	-	0	0	0	0	0	0	0	0	20	0	0	20	1,968																									
Ardenwood-JarvisSta	-	239	22														0	1	1	0	0	0	0	0	150	0	0	150	14,664	0	0	0	0	0	0	0	0	14	0	0	14	1,376
Ardenwood-JarvisRdwy	-	-	-																																						
Jarvis-Thornton				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***156***	***0***	***0***	***157***	***15,308***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Jarvis-ThorntonSW	66	-	-	0	0	0	0	0	0	0	0	24	0	0	24	2,321																									
Jarvis-ThorntonUtil	66	-	-	0	0	0	0	0	0	0	0	5	0	0	5	513																									
Jarvis-ThorntonRWPrep	65	-	-	0	0	0	0	0	0	0	0	18	0	0	19	1,811																									
Jarvis-ThorntonRWProduction	65	-	-	0	0	0	0	0	0	0	0	28	0	0	28	2,711																									
Jarvis-ThorntonStr	87	-	-	0	0	0	0	0	0	0	0	29	0	0	29	2,852																									
Jarvis-ThorntonRdwy	44	-	-	0	0	0	0	0	0	0	0	52	0	0	52	5,101																									
Thornton-Newark				***0***	***1***	***1***	***0***	***0***	***0***	***0***	***0***	***186***	***0***	***0***	***187***	***18,216***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Thornton-NewarkSW	87	-	-	0	0	0	0	0	0	0	0	27	0	0	27	2,639																									
Thornton-NewarkUtil	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	634																									
Thornton-NewarkRWPrep	88	-	-	0	0	0	0	0	0	0	0	26	0	0	26	2,508																									
Thornton-NewarkRWProduction	88	-	-	0	0	0	0	0	0	0	0	21	0	0	21	2,076																									
Thornton-NewarkStr	44	-	-	0	0	0	0	0	0	0	0	6	0	0	6	620																									
Thornton-NewarkRdwy	22	-	-	0	0	0	0	0	0	0	0	99	0	0	100	9,738																									
Employee				**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**135**	**0**	**0**	**136**	**15,350**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**188**	**0**	**0**	**190**	**21,437**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**9**	**1,030**
Elmhurst-Williams				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***43***	***0***	***0***	***43***	***4,883***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Elmhurst-WilliamsSW	87	-	-	0	0	0	0	0	0	0	0	6	0	0	6	694																									
Elmhurst-WilliamsUtil	87	-	-	0	0	0	0	0	0	0	0	3	0	0	3	347																									
Elmhurst-WilliamsRWPrep	54	-	-	0	0	0	0	0	0	0	0	7	0	0	7	768																									
Elmhurst-WilliamsRWProduction	54	-	-	0	0	0	0	0	0	0	0	19	0	0	20	2,219																									
Elmhurst-WilliamsStr	54	-	-	0	0	0	0	0	0	0	0	5	0	0	5	555																									
Elmhurst-WilliamsRdwy	22	-	-	0	0	0	0	0	0	0	0	3	0	0	3	300																									
Williams-MtEden				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***55***	***6,253***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***31***	***0***	***0***	***32***	***3,585***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Williams-MtEdenSW	130	1	-	0	0	0	0	0	0	0	0	9	0	0	9	1,039	0	0	0	0	0	0	0	0	0	0	0	0	8												
Williams-MtEdenUtil	130	1	-	0	0	0	0	0	0	0	0	5	0	0	5	520	0	0	0	0	0	0	0	0	0	0	0	0	4												
Williams-MtEdenRWPrep	45	64	-	0	0	0	0	0	0	0	0	6	0	0	6	717	0	0	0	0	0	0	0	0	9	0	0	9	992												
Williams-MtEdenRWProduction	45	64	-	0	0	0	0	0	0	0	0	16	0	0	17	1,864	0	0	0	0	0	0	0	0	23	0	0	23	2,580												
Williams-MtEdenStr	143	-	-	0	0	0	0	0	0	0	0	14	0	0	14	1,593																									
Williams-MtEdenRdwy	44	-	-	0	0	0	0	0	0	0	0	5	0	0	5	521																									
MtEden-Baumberg				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***2***	***0***	***0***	***2***	***257***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***54***	***0***	***0***	***55***	***6,184***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
MtEden-BaumbergSW	-	87	-														0	0	0	0	0	0	0	0	6	0	0	6	680												
MtEden-BaumbergUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	340												
MtEden-BaumbergRWPrep	-	66	-														0	0	0	0	0	0	0	0	9	0	0	9	1,026												
MtEden-BaumbergRWProduction	-	66	-														0	0	0	0	0	0	0	0	23	0	0	24	2,667												
MtEden-BaumbergStr	23	108	-	0	0	0	0	0	0	0	0	2	0	0	2	257	0	0	0	0	0	0	0	0	10	0	0	10	1,177												
MtEden-BaumbergRdwy	-	22	-														0	0	0	0	0	0	0	0	3	0	0	3	294												
Baumberg-Alvarado				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***55***	***0***	***0***	***56***	***6,289***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***20***	***0***	***0***	***20***	***2,309***
Baumberg-AlvaradoSW	-	86	23														0	0	0	0	0	0	0	0	12	0	0	12	1,343	0	0	0	0	0	0	0	0	3	0	0	3	356
Baumberg-AlvaradoUtil	-	86	23														0	0	0	0	0	0	0	0	3	0	0	3	336	0	0	0	0	0	0	0	0	1	0	0	1	89
Baumberg-AlvaradoRWPrep	-	43	43														0	0	0	0	0	0	0	0	3	0	0	3	336	0	0	0	0	0	0	0	0	3	0	0	3	327
Baumberg-AlvaradoRWProduction	-	43	43														0	0	0	0	0	0	0	0	14	0	0	14	1,578	0	0	0	0	0	0	0	0	13	0	0	14	1,537
Baumberg-AlvaradoStr	-	153	-														0	0	0	0	0	0	0	0	15	0	0	15	1,670												
Baumberg-AlvaradoRdwy	-	44	-														0	0	0	0	0	0	0	0	9	0	0	9	1,020												
Alvarado-Lowry				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***37***	***0***	***0***	***37***	***4,185***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***29***	***0***	***0***	***29***	***3,293***
Alvarado-LowrySW	-	65	23														0	0	0	0	0	0	0	0	9	0	0	9	1,015	0	0	0	0	0	0	0	0	3	0	0	3	350
Alvarado-LowryUtil	-	65	23														0	0	0	0	0	0	0	0	2	0	0	2	254	0	0	0	0	0	0	0	0	1	0	0	1	87
Alvarado-LowryRWPrep	-	21	53														0	0	0	0	0	0	0	0	1	0	0	1	164	0	0	0	0	0	0	0	0	4	0	0	4	408
Alvarado-LowryRWProduction	-	21	53														0	0	0	0	0	0	0	0	7	0	0	7	770	0	0	0	0	0	0	0	0	17	0	0	17	1,917
Alvarado-LowryStr	-	86	43														0	0	0	0	0	0	0	0	9	0	0	10	1,074	0	0	0	0	0	0	0	0	5	0	0	5	530
Alvarado-LowryRdwy	-	31	-														0	0	0	0	0	0	0	0	8	0	0	8	908												
Lowry-Ardenwood				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***4***	***0***	***0***	***4***	***403***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***70***	***0***	***0***	***71***	***7,971***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
Lowry-ArdenwoodSW	-	87	-														0	0	0	0	0	0	0	0	12	0	0	12	1,360												
Lowry-ArdenwoodUtil	-	87	-														0	0	0	0	0	0	0	0	3	0	0	3	340												
Lowry-ArdenwoodRWPrep	-	66	-														0	0	0	0	0	0	0	0	5	0	0	5	513												
Lowry-ArdenwoodRWProduction	-	66	-														0	0	0	0	0	0	0	0	21	0	0	21	2,411												
Lowry-ArdenwoodStr	23	195	-	0	0	0	0	0	0	0	0	4	0	0	4	403	0	0	0	0	0	0	0	0	29	0	0	30	3,346												
Lowry-ArdenwoodRdwy	-	-	-																																						
Ardenwood-Jarvis				***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***23***	***0***	***0***	***24***	***2,665***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***118***	***0***	***0***	***119***	***13,466***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***9***	***0***	***0***	***9***	***1,030***
Ardenwood-JarvisSW	45	21	-	0	0	0	0	0	0	0	0	6	0	0	6	717	0	0	0	0	0	0	0	0	3	0	0	3	323												

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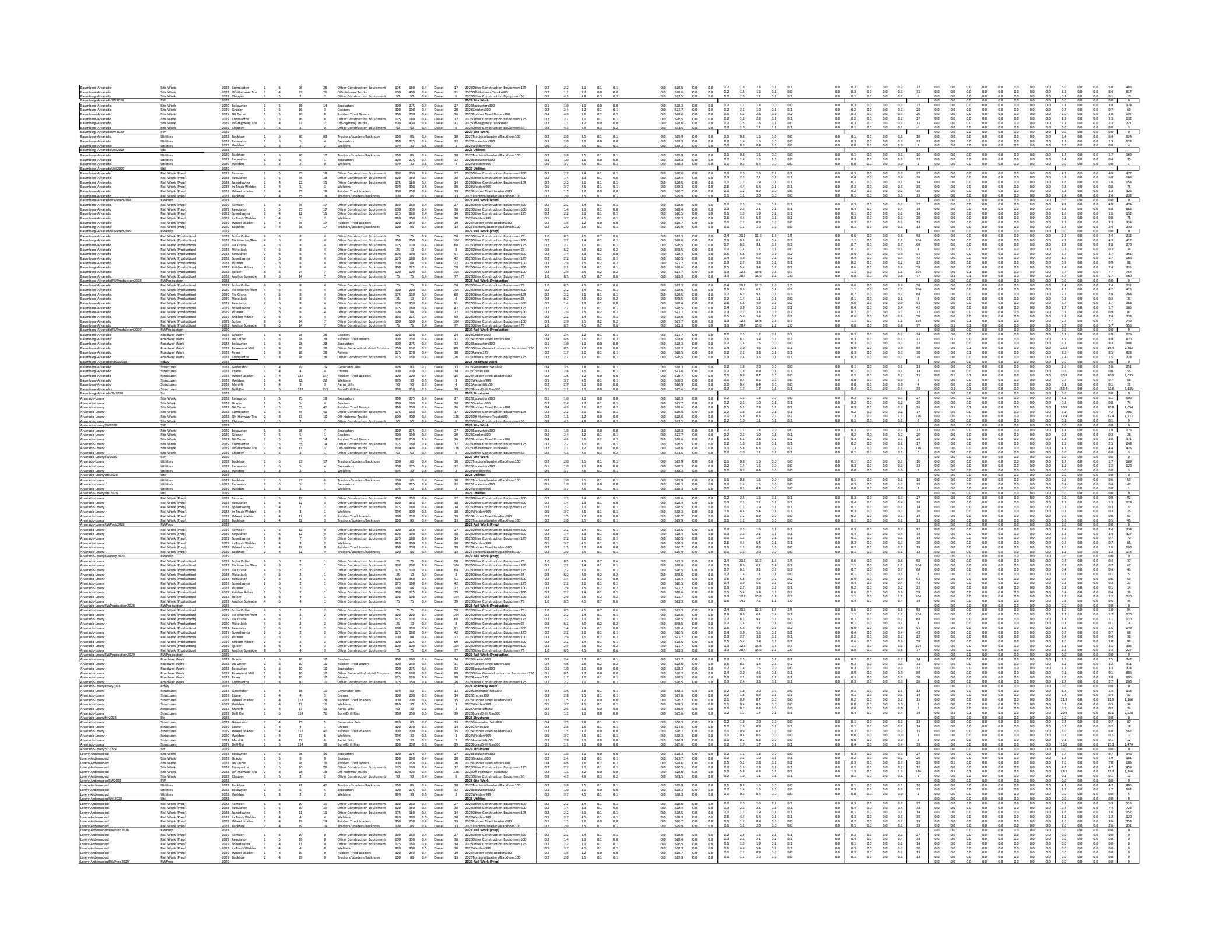
Offroad Calculations | Location | Onsite

| Project | Activity | Year | Equip | #/day | Site hrs/day | Equipment Days | Year Adjustment Factor | CMOD Equipment Type | HP Bin | HP | LF | Fuel | Fuel (gal/gal) | Concat | g/hp-hr (CalEEMod) | | | | | | | | | | Pounds per day | | | | | | | | | | Metric tons per day | | | | | | | | | | Gal per day | Tons per year | | | | | | | | | | Metric tons per year | | | | | | | | | | Gal per Year |
|---|---|---



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Employee Onroad Calculations Location Onsite

Project	Code	Activity	Year	Air Basin	Concat	Vehicle	Employee/ Day	Trips/ Day	MI/Day	Fuel	Fuel (gal/day)	Vehicle
Elmhurst-Williams	Elmhurst-WilliamsSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	10	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	10	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
Elmhurst-Williams	Elmhurst-WilliamsStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	13	26	304	Gas	10	LDA-LDT
Williams-MtEden	Williams-MtEdenSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Williams-MtEden	Williams-MtEdenUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Williams-MtEden	Williams-MtEdenRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	40	468	Gas	16	LDA-LDT
Williams-MtEden	Williams-MtEdenRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Williams-MtEden	Williams-MtEdenRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Williams-MtEden	Williams-MtEdenStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Williams-MtEden	Williams-MtEdenSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Williams-MtEden	Williams-MtEdenUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Williams-MtEden	Williams-MtEdenRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	40	468	Gas	16	LDA-LDT
Williams-MtEden	Williams-MtEdenRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
Williams-MtEden	Williams-MtEdenRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Williams-MtEden	Williams-MtEdenStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Williams-MtEden	Williams-MtEdenSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Williams-MtEden	Williams-MtEdenUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Williams-MtEden	Williams-MtEdenRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Williams-MtEden	Williams-MtEdenRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	40	LDA-LDT
Williams-MtEden	Williams-MtEdenRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	11	LDA-LDT
Williams-MtEden	Williams-MtEdenStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	41	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	52	104	1,217	Gas	40	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	17	34	398	Gas	13	LDA-LDT
MtEden-Baumberg	MtEden-BaumbergStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWProduction2	2027 Rail Work (Production2	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	24	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWProduction2	2028 Rail Work (Production2	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	23	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRWProduction2	2029 Rail Work (Production2	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	30	60	702	Gas	23	LDA-LDT
Baumberg-Alvarado	Baumberg-AlvaradoStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Alvarado-Lowry	Alvarado-LowrySW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Alvarado-Lowry	Alvarado-LowryUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWProduction2027	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	37	74	866	Gas	29	LDA-LDT
Alvarado-Lowry	Alvarado-LowryStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	16	32	374	Gas	13	LDA-LDT
Alvarado-Lowry	Alvarado-LowrySW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Alvarado-Lowry	Alvarado-LowryUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	37	74	866	Gas	29	LDA-LDT
Alvarado-Lowry	Alvarado-LowryStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	16	32	374	Gas	12	LDA-LDT
Alvarado-Lowry	Alvarado-LowrySW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Alvarado-Lowry	Alvarado-LowryUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Alvarado-Lowry	Alvarado-LowryRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	37	74	866	Gas	28	LDA-LDT
Alvarado-Lowry	Alvarado-LowryStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	16	32	374	Gas	12	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	22	44	515	Gas	18	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWProduction20	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	22	44	515	Gas	17	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRWProduction20	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Lowry-Ardenwood	Lowry-ArdenwoodStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	22	44	515	Gas	17	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSta2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	60	120	1,404	Gas	48	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWProduction202	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSta2028	2028 Station	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	60	120	1,404	Gas	47	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRWProduction202	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	0	0	0	Gas	0	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	14	28	328	Gas	11	LDA-LDT
Ardenwood-Jarvis	Ardenwood-JarvisSta2029	2029 Station	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	60	120	1,404	Gas	46	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWProduction202	2027 Rail Work (Production)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRdwy2027	2027 Roadway Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonStr2027	2027 Structures	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonSW2028	2028 Site Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonUti2028	2028 Utilities	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWPreo2028	2028 Rail Work (Preo)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWProduction2028	2028 Rail Work (Production)	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	37	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRdwy2028	2028 Roadway Work	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonStr2028	2028 Structures	2028	SFBAAB	2028SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	12	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonSW2029	2029 Site Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	15	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonUti2029	2029 Utilities	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWPreo2029	2029 Rail Work (Preo)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRWProduction2029	2029 Rail Work (Production)	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	47	94	1,100	Gas	36	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonRdwy2029	2029 Roadway Work	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	18	36	421	Gas	14	LDA-LDT
Jarvis-Thornton	Jarvis-ThorntonStr2029	2029 Structures	2029	SFBAAB	2029SFBAABLDA-LDT	Employee Auto	15	30	351	Gas	11	LDA-LDT
Thornton-Newark	Thornton-NewarkSW2027	2027 Site Work	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	20	40	468	Gas	16	LDA-LDT
Thornton-Newark	Thornton-NewarkUti2027	2027 Utilities	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	5	10	117	Gas	4	LDA-LDT
Thornton-Newark	Thornton-NewarkRWPreo2027	2027 Rail Work (Preo)	2027	SFBAAB	2027SFBAABLDA-LDT	Employee Auto	10	20	234	Gas	8	LDA-LDT
Thornton-Newark	Thornton-NewarkRWProduction202	2027 Rail Work (Production)	2027	SF

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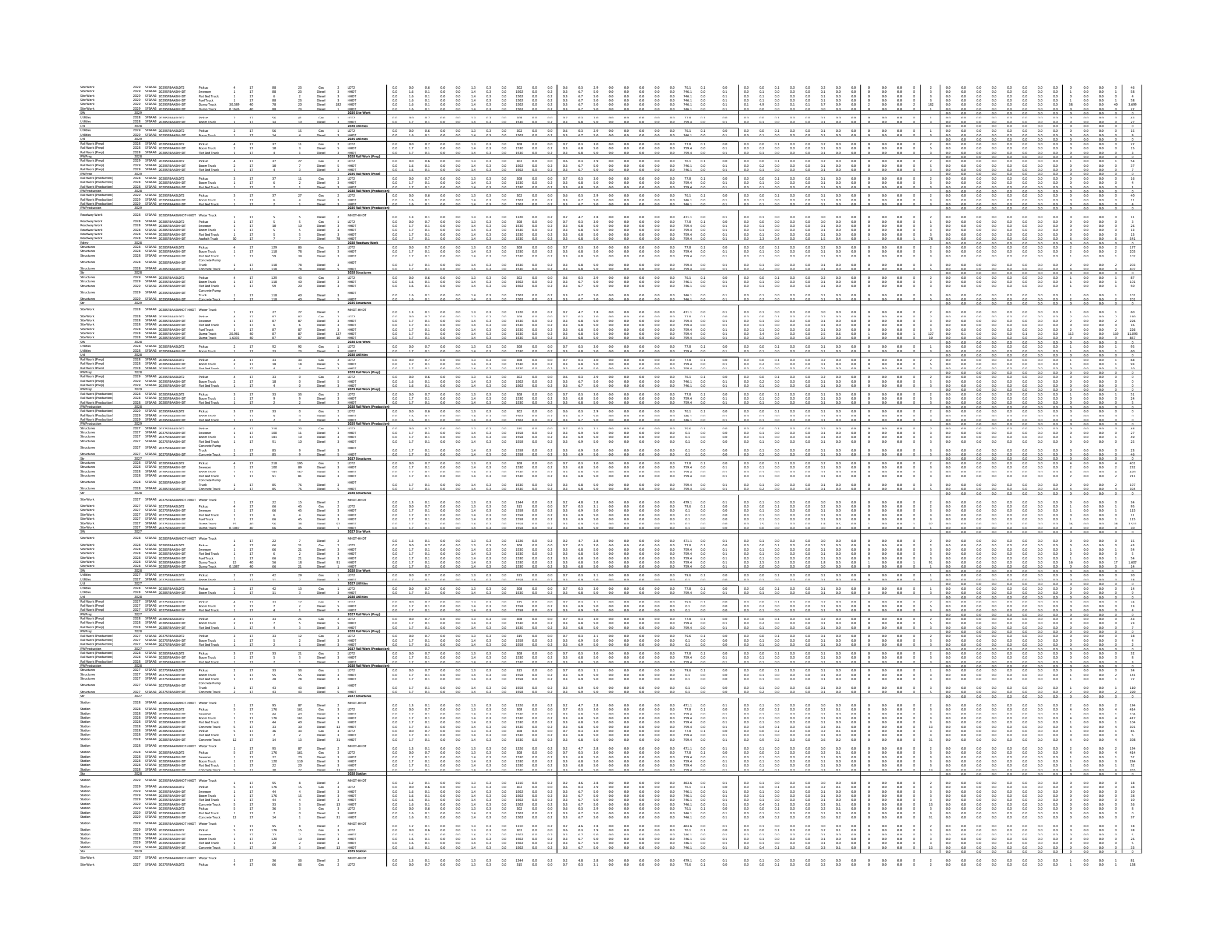
Offsite Onroad Calculations | Location | Offsite

Activity	Year	Air Basin	Concat	Vehicle	Trucks	RT MI/ Truck	Equipment Days	Year Adjustment	Fuel	Fuel (gal/day)	Vehicle
Site Work	2027	SFBAAB	2027SFBAABMHDT-HHDT	Water Truck	1	17	67	67	Diesel	2	MHDT-HHDT
Site Work	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	87	87	Gas	2	LDT2
Site Work	2027	SFBAAB	2027SFBAABHHDT	Sweeper	1	17	87	87	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Flatbed/Semi	1	17	8	8	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Fuel Truck	1	17	87	87	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABMHDT	Dump Truck	54.955	40	77	77	Diesel	335	HHDT
Site Work	2027	SFBAAB	2027SFBAABMHDT	Dump Truck	0.4938	40	87	87	Diesel	3	HHDT
SW	2027										2027 Site Work
Utilities	2027	SFBAAB	2027SFBAABLDT2	Pickup	2	17	154	154	Gas	1	LDT2
Utilities	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	39	39	Diesel	3	HHDT
Util	2027										2027 Utilities
Rail Work (Prep)	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	27	27	Gas	2	LDT2
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	2	17	33	33	Diesel	3	HHDT
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	6	6	Diesel	3	HHDT
RWPrep	2027										2027 Rail Work (Prep)
Rail Work (Production)	2027	SFBAAB	2027SFBAABLDT2	Pickup	3	17	27	27	Gas	2	LDT2
Rail Work (Production)	2027	SFBAAB	2027SFBAABMHDT	Boom Truck	1	17	16	16	Diesel	3	HHDT
Rail Work (Production)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	2	2	Diesel	3	HHDT
RWProduction	2027										2027 Rail Work (Production)
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	8	8	Diesel	3	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	8	8	Diesel	3	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Asphalt Truck	5	17	13	13	Diesel	13	HHDT
Rdwy	2027										2027 Roadway Work
Structures	2027	SFBAAB	2027SFBAABLDT2	Pickup	2	17	54	54	Gas	1	LDT2
Structures	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	33	33	Diesel	3	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	17	17	Diesel	3	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Concrete Pump Truck	1	17	15	15	Diesel	3	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Concrete Truck	2	17	15	15	Diesel	5	HHDT
Str	2027										2027 Structures
Site Work	2027	SFBAAB	2027SFBAABMHDT-HHDT	Water Truck	1	17	69	68	Diesel	2	MHDT-HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Pickup	4	17	131	130	Gas	2	LDT2
Site Work	2027	SFBAAB	2027SFBAABHHDT	Sweeper	1	17	131	130	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	6	6	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABHHDT	Fuel Truck	1	17	131	130	Diesel	3	HHDT
Site Work	2027	SFBAAB	2027SFBAABMHDT	Dump Truck	45.87	40	121	120	Diesel	280	HHDT
Site Work	2027	SFBAAB	2027SFBAABMHDT	Dump Truck	0.1087	40	131	130	Diesel	1	HHDT
SW	2027										2027 Site Work
Site Work	2028	SFBAAB	2028SFBAABMHDT-HHDT	Water Truck	1	17	69	1	Diesel	2	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	131	1	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	131	1	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	6	0	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	131	1	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	45.87	40	121	1	Diesel	276	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.1087	40	131	1	Diesel	3	HHDT
SW	2028										2028 Site Work
Utilities	2027	SFBAAB	2027SFBAABLDT2	Pickup	2	17	142	141	Gas	1	LDT2
Utilities	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	1	17	71	70	Diesel	3	HHDT
Util	2027										2027 Utilities
Utilities	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	142	1	Gas	1	LDT2
Utilities	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	71	1	Diesel	3	HHDT
Util	2028										2028 Utilities
Rail Work (Prep)	2027	SFBAAB	2027SFBAABLDT2	Pickup	4	17	54	23	Gas	2	LDT2
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	2	17	59	24	Diesel	3	HHDT
Rail Work (Prep)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2027										2027 Rail Work (Prep)
Rail Work (Prep)	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	54	32	Gas	2	LDT2
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	2	17	59	35	Diesel	3	HHDT
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2028										2028 Rail Work (Prep)
Rail Work (Production)	2027	SFBAAB	2027SFBAABLDT2	Pickup	3	17	54	73	Gas	3	LDT2
Rail Work (Production)	2027	SFBAAB	2027SFBAABMHDT	Boom Truck	1	17	26	11	Diesel	3	HHDT
Rail Work (Production)	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2027										2027 Rail Work (Production)
Rail Work (Production)	2028	SFBAAB	2028SFBAABLDT2	Pickup	3	17	54	32	Gas	2	LDT2
Rail Work (Production)	2028	SFBAAB	2028SFBAABMHDT	Boom Truck	1	17	26	15	Diesel	3	HHDT
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2028										2028 Rail Work (Production)
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	4	17	28	28	Diesel	10	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	3	17	28	28	Diesel	8	HHDT
Roadway Work	2027	SFBAAB	2027SFBAABHHDT	Asphalt Truck	3	17	87	87	Diesel	8	HHDT
Rdwy	2027										2027 Roadway Work
Site Work	2028	SFBAAB	2028SFBAABMHDT-HHDT	Water Truck	1	17	64	64	Diesel	3	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	87	87	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	87	87	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	6	6	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	87	87	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	49.901	40	77	77	Diesel	303	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.082	40	87	87	Diesel	0	HHDT
SW	2028										2028 Site Work
Utilities	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	158	158	Gas	1	LDT2
Utilities	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	40	40	Diesel	3	HHDT
Util	2028										2028 Utilities
Rail Work (Prep)	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	33	33	Gas	2	LDT2
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	2	17	33	33	Diesel	3	HHDT
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	4	4	Diesel	3	HHDT
RWPrep	2028										2028 Rail Work (Prep)
Rail Work (Production)	2028	SFBAAB	2028SFBAABLDT2	Pickup	3	17	15	15	Gas	1	LDT2
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	2	2	Diesel	3	HHDT
RWProduction	2028										2028 Rail Work (Production)
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	11	11	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	11	11	Diesel	3	HHDT
Roadway Work	2028	SFBAAB	2028SFBAABHHDT	Asphalt Truck	5	17	20	20	Diesel	13	HHDT
Rdwy	2028										2028 Roadway Work
Structures	2027	SFBAAB	2027SFBAABMHDT-HHDT	Water Truck	4	17	131	131	Gas	7	MHDT-HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Boom Truck	4	17	119	21	Diesel	10	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Flat Bed Truck	4	17	60	11	Diesel	10	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Concrete Pump Truck	6	17	119	21	Diesel	15	HHDT
Structures	2027	SFBAAB	2027SFBAABHHDT	Concrete Truck	3	17	119	21	Diesel	8	HHDT
Str	2027										2027 Structures
Structures	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	131	108	Gas	2	LDT2
Structures	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	4	17	119	98	Diesel	10	HHDT
Structures	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	4	17	60	49	Diesel	10	HHDT
Structures	2028	SFBAAB	2028SFBAABHHDT	Concrete Pump Truck	6	17	119	98	Diesel	16	HHDT
Structures	2028	SFBAAB	2028SFBAABHHDT	Concrete Truck	3	17	119	98	Diesel	8	HHDT
Str	2028										2028 Structures
Site Work	2028	SFBAAB	2028SFBAABMHDT-HHDT	Water Truck	1	17	68	53	Diesel	2	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	109	86	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	109	86	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	5	4	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	109	86	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	42.427	40	99	78	Diesel	257	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.1307	40	109	86	Diesel	1	HHDT
SW	2028										2028 Site Work
Site Work	2029	SFBAAB	2029SFBAABMHDT-HHDT	Water Truck	1	17	68	14	Diesel	2	MHDT-HHDT
Site Work	2029	SFBAAB	2029SFBAABLDT2	Pickup	4	17	109	23	Gas	2	LDT2
Site Work	2029	SFBAAB	2029SFBAABHHDT	Sweeper	1	17	109	23	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	5	1	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABHHDT	Fuel Truck	1	17	109	23	Diesel	3	HHDT
Site Work	2029	SFBAAB	2029SFBAABMHDT	Dump Truck	42.427	40	99	21	Diesel	253	HHDT
Site Work	2029	SFBAAB	2029SFBAABMHDT	Dump Truck	0.1307	40	109	23	Diesel	1	HHDT
SW	2029										2029 Site Work
Utilities	2028	SFBAAB	2028SFBAABLDT2	Pickup	2	17	170	134	Gas	1	LDT2
Utilities	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	43	34	Diesel	3	HHDT
Util	2028										2028 Utilities
Utilities	2029	SFBAAB	2029SFBAABLDT2	Pickup	2	17	170	36	Gas	1	LDT2
Utilities	2029	SFBAAB	2029SFBAABHHDT	Boom Truck	1	17	43	9	Diesel	3	HHDT
Util	2029										2029 Utilities
Rail Work (Prep)	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	43	22	Gas	2	LDT2
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	2	17	36	18	Diesel	3	HHDT
Rail Work (Prep)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2028										2028 Rail Work (Prep)
Rail Work (Prep)	2029	SFBAAB	2029SFBAABLDT2	Pickup	4	17	43	21	Gas	2	LDT2
Rail Work (Prep)	2029	SFBAAB	2029SFBAABHHDT	Boom Truck	2	17	36	18	Diesel	3	HHDT
Rail Work (Prep)	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	4	2	Diesel	3	HHDT
RWPrep	2029										2029 Rail Work (Prep)
Rail Work (Production)	2028	SFBAAB	2028SFBAABLDT2	Pickup	3	17	43	22	Gas	2	LDT2
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Boom Truck	1	17	16	8	Diesel	3	HHDT
Rail Work (Production)	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2028										2028 Rail Work (Production)
Rail Work (Production)	2029	SFBAAB	2029SFBAABLDT2	Pickup	3	17	43	21	Gas	2	LDT2
Rail Work (Production)	2029	SFBAAB	2029SFBAABHHDT	Boom Truck	1	17	16	8	Diesel	3	HHDT
Rail Work (Production)	2029	SFBAAB	2029SFBAABHHDT	Flat Bed Truck	1	17	2	1	Diesel	3	HHDT
RWProduction	2029										2029 Rail Work (Production)
Site Work	2028	SFBAAB	2028SFBAABMHDT-HHDT	Water Truck	1	17	10	7	Diesel	2	MHDT-HHDT
Site Work	2028	SFBAAB	2028SFBAABLDT2	Pickup	4	17	88	65	Gas	2	LDT2
Site Work	2028	SFBAAB	2028SFBAABHHDT	Sweeper	1	17	88	65	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Flat Bed Truck	1	17	6	4	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABHHDT	Fuel Truck	1	17	88	65	Diesel	3	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	30.589	40	78	58	Diesel	186	HHDT
Site Work	2028	SFBAAB	2028SFBAABMHDT	Dump Truck	0.1626	40	88	65	Diesel	1	HHDT
SW	2028										2028 Site Work
Site Work	2029	SFBAAB	2029SFBAABMHDT-HHDT	Water Truck	1	17	10	3	Diesel	2	MHDT-HHDT

g/mi (EMFAC, AP-42)												Process g/trip (EMFAC)												Pounds per day												Metric tons per day					Gal per day	Tons per year												Metric tons per year				Gal per Fuel
ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O		ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O		ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
0.0	1.3	0.1	0.0	0.0	1.3	0.3	0.0	1344	0.0	0.2		0.2	4.8	2.8	0.0	0.0	0.0	0.0	0.0	479.1	0.0	0.1		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	2	151
0.0	0.0	0.7	0.0	0.0	1.3	0.3	0.0	315	0.0	0.0		0.7	0.3	3.1	0.0	0.0	0.0	0.0	0.0	79.6	0.1	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	2	183
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	223
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	21
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	169
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	15
0.0	0.0	0.7	0.0	0.0	1.3	0.3	0.0	315	0.0	0.0		0.7	0.3	3.1	0.0	0.0	0.0	0.0	0.0	79.6	0.1	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	2	162
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	99
0.0	0.0	0.7	0.0	0.0	1.3	0.3	0.0	315	0.0	0.0		0.7	0.3	3.1	0.0	0.0	0.0	0.0	0.0	79.6	0.1	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	2	56
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	85
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	44
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	38
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	5
0.0	0.0	0.7	0.0	0.0	1.3	0.3	0.0	315	0.0	0.0		0.7	0.3	3.1	0.0	0.0	0.0	0.0	0.0	79.6	0.1	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.0	0.0	2	172
0.0	0.0	0.7	0.0	0.0	1.3	0.3	0.0	315	0.0	0.0		0.7	0.3	3.1	0.0	0.0	0.0	0.0	0.0	79.6	0.1	0.0		0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.0	0.0	1	56
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	85
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	44
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	3	38
0.0	1.7	0.1	0.0	0.0	1.4	0.3	0.0	1558	0.0	0.2		0.3	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Locomotive Calculations | Location | Offsite

Project	Code	Year	Loco	Engine Tier	#/day	Site hrs/day	Equipment Days	Year Adjustment Factor	HP	LF	Fuel	Fuel (gal/day)	g/hp-hr									Pounds per day								Metric tons per day					Gal per day	Tons per year								Metric tons per year				Gal per Year
													ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	14	14	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	37.8	0.0	0.0	38.1	3,699
Elmhurst-Williams	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	21	21	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	4.1	1.7	0.1	0.1	0.0	0.0	0.0	406.5	0.0	0.0	410.5	39,812
Elmhurst-WilliamsRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.3	4.5	1.8	0.1	0.1	0.0	0.0	0.0	444.2	0.0	0.0	448.6	43,511
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	14	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	21	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	14	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-Williams	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	21	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Elmhurst-WilliamsRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	23	10	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	25.7	0.0	0.0	26.0	2,519
Williams-MtEden	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	44	18	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	3.5	1.4	0.1	0.1	0.0	0.0	0.0	353.0	0.0	0.0	356.5	34,573
Williams-MtEdenRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.2	3.8	1.5	0.1	0.1	0.0	0.0	0.0	378.7	0.0	0.0	382.4	37,092
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	23	13	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	36.3	0.0	0.0	36.7	3,558
Williams-MtEden	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	44	26	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.3	5.0	2.0	0.1	0.1	0.0	0.0	0.0	498.7	0.0	0.0	503.6	48,842
Williams-MtEdenRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.3	5.4	2.2	0.1	0.1	0.0	0.0	0.0	535.0	0.0	0.0	540.3	52,400
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	23	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	44	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Williams-MtEden	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	13	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	28	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	13	13	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	35.1	0.0	0.0	35.4	3,435
MtEden-Baumberg	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	28	28	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.3	5.4	2.2	0.1	0.1	0.0	0.0	0.0	542.0	0.0	0.0	547.3	53,082
MtEden-BaumbergRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.4	5.8	2.4	0.1	0.1	0.0	0.0	0.0	577.0	0.0	0.0	582.7	56,517
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	13	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-Baumberg	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	28	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
MtEden-BaumbergRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	14	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	31	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-AlvaradoRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	14	7	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	18.9	0.0	0.0	19.1	1,856
Baumberg-Alvarado	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	31	16	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	3.0	1.2	0.1	0.1	0.0	0.0	0.0	301.0	0.0	0.0	304.0	29,483
Baumberg-AlvaradoRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.2	3.2	1.3	0.1	0.1	0.0	0.0	0.0	320.0	0.0	0.0	323.1	31,339
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	14	7	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	19.0	1,843
Baumberg-Alvarado	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	31	15	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.2	3.0	1.2	0.1	0.1	0.0	0.0	0.0	299.0	0.0	0.0	302.0	29,287
Baumberg-AlvaradoRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.2	3.2	1.3	0.1	0.1	0.0	0.0	0.0	317.8	0.0	0.0	321.0	31,130
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	5	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	6	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-LowryRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	5	1	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	373
Alvarado-Lowry	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	6	2	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	32.8	0.0	0.0	33.2	3,216
Alvarado-LowryRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	36.6	0.0	0.0	37.0	3,589
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	5	4	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	9.8	948
Alvarado-Lowry	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	6	4	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	83.3	0.0	0.0	84.1	8,159
Alvarado-LowryRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	93.9	9,107
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	8	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	11	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	8	8	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	21.8	2,114
Lowry-Ardenwood	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	11	11	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	2.1	0.9	0.0	0.0	0.0	0.0	0.0	212.9	0.0	0.0	215.0	20,854
Lowry-ArdenwoodRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.1	2.4	1.0	0.0	0.0	0.0	0.0	0.0	234.5	0.0	0.0	236.8	22,968
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	3	8	0	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-Ardenwood	2029 Rail Work (Prep)	2029	DSL LOCOMOTIVE	3	2	10	11	0	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lowry-ArdenwoodRWPrep2029	RWPrep2029																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	3	4	1	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	3.9	374
Ardenwood-Jarvis	2027 Rail Work (Prep)	2027	DSL LOCOMOTIVE	3	2	10	14	5	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.0	0.4	0.0	0.0	0.0	0.0	0.0	95.9	0.0	0.0	96.8	9,392
Ardenwood-JarvisRWPrep2027	RWPrep2027																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0	22.3	2,160	0.1	1.0	0.4	0.0	0.0	0.0	0.0	0.0	99.7	0.0	0.0	100.7	9,765
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	3	4	3	4400	0.2	Diesel	264	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	3.3	54.2	22.0	1.0	0.9			0.1	2.7	0.0	0.0	2.7	264	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	0.0	7.0	683
Ardenwood-Jarvis	2028 Rail Work (Prep)	2028	DSL LOCOMOTIVE	3	2	10	14	9	4400	0.4	Diesel	1896	0.3	4.5	1.8	0.1	0.1			0.0	494.0	0.0	0.0	23.6	388.7	158.1	6.9	6.7			0.4	19.4	0.0	0.0	19.5	1,896	0.1	1.8	0.7	0.0	0.0	0.0	0.0	0.0	175.1	0.0	0.0	176.8	17,150
Ardenwood-JarvisRWPrep2028	RWPrep2028																					26.9	442.9	180.1	7.9	7.6	0.0	0.0	0.5	22.1	0.0	0.0

Earth Moving Calculations Location Onsite

Code	Activity	Days 2027	Days 2028	Days 2029	Grading (acres/day)	Cut/fill (cy)	Dozing (hour/day)	Emission Factor PM10 G (lb/acre)	PM2.5 G (lb/acre)	PM10 C/F (lb/ton)	PM2.5 C/F (lb/ton)	PM10 Doz (lb/hr)	PM2.5 Doz (lb/hr)	Pounds per day ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	Metric tons per day CO2	CH4	N2O	CO2e	Gal per day Fuel
Elmhurst-Williams																										
Elmhurst-WilliamsSW	Site Work	87	-	-	0.625	57,289	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
Elmhurst-WilliamsRWPrep	Rail Work (Prep)	54	-	-	-	25,639	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
Elmhurst-WilliamsRWProduction	Rail Work (Production)	54	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Elmhurst-WilliamsStr	Structures	54	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Elmhurst-WilliamsRdwy	Roadway Work	22	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Elmhurst-WilliamsUtil	Utilities	87	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Williams-MtEden		-	-	-	-		-																			
Williams-MtEdenSW	Site Work	130	1	-	0.625	75,270	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
Williams-MtEdenRWPrep	Rail Work (Prep)	45	64	-	-	42,377	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
Williams-MtEdenRWProduction	Rail Work (Production)	45	64	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Williams-MtEdenStr	Structures	143	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Williams-MtEdenRdwy	Roadway Work	44	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Williams-MtEdenUtil	Utilities	130	1	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
MtEden-Baumberg		-	-	-	-		-																			
MtEden-BaumbergSW	Site Work	-	87	-	0.625	52,021	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
MtEden-BaumbergRWPrep	Rail Work (Prep)	-	66	-	-	22,376	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
MtEden-BaumbergRWProduction	Rail Work (Production)	-	66	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
MtEden-BaumbergStr	Structures	23	108	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
MtEden-BaumbergRdwy	Roadway Work	-	22	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
MtEden-BaumbergUtil	Utilities	-	87	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Baumberg-Alvarado		-	-	-	-		-																			
Baumberg-AlvaradoSW	Site Work	-	86	23	0.625	56,924	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.6	2.2						
Baumberg-AlvaradoRWPrep	Rail Work (Prep)	-	43	43	-	25,067	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.1	0.0						
Baumberg-AlvaradoRWProductior	Rail Work (Production)	-	43	43	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Baumberg-AlvaradoStr	Structures	-	153	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Baumberg-AlvaradoRdwy	Roadway Work	-	44	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Baumberg-AlvaradoUtil	Utilities	-	86	23	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-Lowry		-	-	-	-		-																			
Alvarado-LowrySW	Site Work	-	65	23	0.625	32,184	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.2						
Alvarado-LowryRWPrep	Rail Work (Prep)	-	21	53	-	7,084	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-LowryRWProduction	Rail Work (Production)	-	21	53	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-LowryStr	Structures	-	86	43	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Alvarado-LowryRdwy	Roadway Work	-	31	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Alvarado-LowryUtil	Utilities	-	65	23	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-Ardenwood		-	-	-	-		-																			
Lowry-ArdenwoodSW	Site Work	-	87	-	0.625	21,872	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.1						
Lowry-ArdenwoodRWPrep	Rail Work (Prep)	-	66	-	-	12,520	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-ArdenwoodRWProduction	Rail Work (Production)	-	66	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-ArdenwoodStr	Structures	23	195	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Lowry-ArdenwoodRdwy	Roadway Work	-	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4													
Lowry-ArdenwoodUtil	Utilities	-	87	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-Jarvis		-	-	-	-		-																			
Ardenwood-JarvisSW	Site Work	45	21	-	0.625	11,405	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.1						
Ardenwood-JarvisRWPrep	Rail Work (Prep)	23	42	-	-	4,942	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisRWProduction	Rail Work (Production)	23	42	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisStr	Structures	65	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisSta	Station	-	239	22	-	10,143	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Ardenwood-JarvisRdwy	Roadway Work	-	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4													
Ardenwood-JarvisUtil	Utilities	45	21	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-Thornton		-	-	-	-		-																			
Jarvis-ThorntonSW	Site Work	66	-	-	0.625	25,091	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.2						
Jarvis-ThorntonRWPrep	Rail Work (Prep)	65	-	-	-	10,873	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-ThorntonRWProduction	Rail Work (Production)	65	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-ThorntonStr	Structures	87	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Jarvis-ThorntonRdwy	Roadway Work	44	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Jarvis-ThorntonUtil	Utilities	66	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-Newark		-	-	-	-		-																			
Thornton-NewarkSW	Site Work	87	-	-	0.625	26,857	5	1.1	0.1145	0.0002	0.0000	0.8	0.4						4.5	2.2						
Thornton-NewarkRWPrep	Rail Work (Prep)	88	-	-	-	18,029	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-NewarkRWProduction	Rail Work (Production)	88	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-NewarkStr	Structures	44	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						
Thornton-NewarkRdwy	Roadway Work	22	-	-	0.750	-	6	1.1	0.1145	0.0002	0.0000	0.8	0.4						5.3	2.6						
Thornton-NewarkUtil	Utilities	87	-	-	-	-	-	1.1	0.1145	0.0002	0.0000	0.8	0.4						0.0	0.0						

Paving Calculations Location Onsite

Code	Days	Paved (acres)	Emission Factor	Pounds per day								Metric tons per day				Gal per day
			ROG (lbs per acre)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams																
Elmhurst-WilliamsSW	87	0.9	2.6	0.0												
Elmhurst-WilliamsRW																
Elmhurst-WilliamsStr																
Williams-MtEden																
Williams-MtEdenSW	131	3.5	2.6	0.1												
Williams-MtEdenRW																
Williams-MtEdenStr																
MtEden-Baumberg																
MtEden-BaumbergSW	87	1.3	2.6	0.0												
MtEden-BaumbergRW																
MtEden-BaumbergStr																
Baumberg-Alvarado																
Baumberg-AlvaradoSW	109	2.4	2.6	0.1												
Baumberg-AlvaradoRW																
Baumberg-AlvaradoStr																
Alvarado-Lowry																
Alvarado-LowrySW	88	2.8	2.6	0.1												
Alvarado-LowryRW																
Alvarado-LowryStr																
Lowry-Ardenwood																
Lowry-ArdenwoodSW	87	-	2.6	0.0												
Lowry-ArdenwoodRW																
Lowry-ArdenwoodStr																
Ardenwood-Jarvis																
Ardenwood-JarvisSta	261	13.2	2.6	0.1												
Ardenwood-JarvisRW																
Ardenwood-JarvisStr																
Jarvis-Thornton																
Jarvis-ThorntonSW	66	1.8	2.6	0.1												
Jarvis-ThorntonRW																
Jarvis-ThorntonStr																
Thornton-Newark																
Thornton-NewarkSW	87	3.1	2.6	0.1												
Thornton-NewarkRW																
Thornton-NewarkStr																

Demolition Calculations Location Onsite

Code	Days	Demo (tons)	Emission Factor		Pounds per day								Metric tons per day				Gal per day
			PM10 G (lb/ton)	PM2.5 G (lb/ton)	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	Fuel
Elmhurst-Williams																	
Elmhurst-WilliamsSW	87	632	0.023	0.003						0.2	0.0						
Elmhurst-WilliamsRW																	
Elmhurst-WilliamsStr																	
Williams-MtEden																	
Williams-MtEdenSW	131	253	0.023	0.003						0.0	0.0						
Williams-MtEdenRW																	
Williams-MtEdenStr																	
MtEden-Baumberg																	
MtEden-BaumbergSW	87	126	0.023	0.003						0.0	0.0						
MtEden-BaumbergRW																	
MtEden-BaumbergStr																	
Baumberg-Alvarado																	
Baumberg-AlvaradoSW	109	253	0.023	0.003						0.1	0.0						
Baumberg-AlvaradoRW																	
Baumberg-AlvaradoStr																	
Alvarado-Lowry																	
Alvarado-LowrySW	88	253	0.023	0.003						0.1	0.0						
Alvarado-LowryRW																	
Alvarado-LowryStr																	
Lowry-Ardenwood																	
Lowry-ArdenwoodSW	87	2,528	0.023	0.003						0.7	0.1						
Lowry-ArdenwoodRW																	
Lowry-ArdenwoodStr																	
Ardenwood-Jarvis																	
Ardenwood-JarvisSW	66	126	0.023	0.003						0.0	0.0						
Ardenwood-JarvisRW																	
Ardenwood-JarvisStr																	
Jarvis-Thornton																	
Jarvis-ThorntonSW	66	126	0.023	0.003													
Jarvis-ThorntonRW																	
Jarvis-ThorntonStr																	
Thornton-Newark																	
Thornton-NewarkSW	87	126	0.023	0.003						0.0	0.0						
Thornton-NewarkRW																	
Thornton-NewarkStr																	

Construction Electricity

	Annual Value provided (kWh/year)	Scaled Annual Values (based on schedule) (kWh/year)			Year 1				Year 2				Year 3			
Option B.O.A	**At-Grade @ Industrial**	**Year 1**	**Year 2**	**Year 3**	CO_2	CH_4	N_2O	CO_2e	CO_2	CH_4	N_2O	CO_2e	CO_2	CH_4	N_2O	CO_2e
Industrial	1,600	1,600	1,600	-												
Alameda Creek-Fremont	1,600	1,600	1,600	-												
Total	3,200	3,200	3,200	-	0.2961	0.0000	0.0000	0.2990	0.2961	0.0000	0.0000	0.2990	-	-	-	-
	Grade-Separated @ Industrial															
Industrial	2,800	2,800	2,800	844												
Alameda Creek-Fremont	1,600	1,600	1,600	482												
Total	4,400	4,400	4,400	1,327	0.4071	0.0001	0.0000	0.4111	0.4071	0.0001	0.0000	0.4111	0.1228	0.0000	0.0000	0.1240
Option B.O	**At-Grade @ Industrial**															
Industrial	1,600	1,600	1,600	-												
Alameda Creek-Fremont	1,600	1,600	1,600	-												
Total	3,200	3,200	3,200	-	0.2961	0.0000	0.0000	0.2990	0.2961	0.0000	0.0000	0.2990	-	-	-	-
	Grade-Separated @ Industrial															
Industrial	2,800	2,800	2,800	844												
Alameda Creek-Fremont	1,600	1,600	1,600	482												
Total	4,400	4,400	4,400	1,327	0.4071	0.0001	0.0000	0.4111	0.4071	0.0001	0.0000	0.4111	0.1228	0.0000	0.0000	0.1240
Option C	**At-Grade @ Industrial**															
Industrial	1,600	1,600	1,600	1,289												
Alameda Creek-Fremont	4,320	4,320	4,320	3,479												
Total	5,920	5,920	5,920	4,768	0.5477	0.0001	0.0000	0.5532	0.5477	0.0001	0.0000	0.5532	0.4411	0.0001	0.0000	0.4455
	Grade-Separated @ Industrial															
Industrial	2,800	2,800	2,800	2,255												
Alameda Creek-Fremont	4,320	4,320	4,320	3,479												
Total	7,120	7,120	7,120	5,734	0.6588	0.0001	0.0000	0.6653	0.6588	0.0001	0.0000	0.6653	0.5305	0.0001	0.0000	0.5358
Option D	**At-Grade @ Industrial**															
Decoto Siding	5,200	5,200	5,200	-												
Alameda Creek-Niles Junctio	3,960	3,960	3,960	-												
Total	9,160	9,160	9,160	-	0.8475	0.0001	0.0000	0.8559	0.8475	0.0001	0.0000	0.8559	-	-	-	-
Coast Alternative E																
Newark Yard	3,200	2,425	3,200	877												
Total	3,200	2,425	3,200	877	0.2243	0.0000	0.0000	0.2266	0.2961	0.0000	0.0000	0.2990	0.0812	0.0000	0.0000	0.0820

Electricity Emission Factors - PG&E			
	CH_4 (lb/MWh)	**CO_2 (lb/MWh)**	**N_2O (lb/MWh)**
All Years	0.033	203.983	0.004
source: CalEEMod 2022, Appendix G-3			

Emissions in BAAQMD - No Build

	Annual VMT	Tons per Year								Metric Tons per Year			
MPH	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
5	1,222,833,261	18.27	25.19	410.71	2.69	2.47	390.78	96.27	2.00	183,959	4	2	184,776
10	1,447,422,323	16.94	31.20	541.15	2.48	2.28	464.86	114.76	2.37	217,699	4	3	218,682
15	1,336,185,113	13.63	33.49	589.24	2.02	1.86	431.69	106.83	2.36	216,438	3	3	217,472
20	2,352,640,262	27.44	85.64	1538.30	4.06	3.73	767.34	190.64	5.62	515,890	6	8	518,488
25	6,394,423,024	76.32	293.06	5229.01	11.04	10.16	2102.19	523.96	17.66	1,620,469	18	28	1,629,181
30	7,577,609,663	90.49	410.54	7231.27	12.75	11.73	2506.67	626.34	23.20	2,129,023	21	39	2,141,023
35	7,295,705,648	68.28	355.45	6029.16	9.43	8.68	2412.43	602.69	19.23	1,764,735	16	33	1,774,972
40	4,339,680,913	35.92	206.77	3384.12	4.98	4.59	1429.83	356.70	11.31	1,037,843	8	19	1,043,778
45	4,048,791,316	30.11	182.22	2928.94	4.25	3.91	1321.16	328.30	10.63	975,171	7	17	980,419
50	4,207,089,920	30.86	192.89	2903.60	4.36	4.01	1359.64	336.52	11.59	1,063,261	7	18	1,068,802
55	4,557,551,131	36.10	225.55	3124.58	5.10	4.70	1463.83	361.38	13.86	1,272,034	8	21	1,278,485
60	9,810,709,877	81.81	495.45	6246.44	11.89	10.94	3141.47	774.55	31.38	2,879,890	19	46	2,894,135
65	13,554,357,550	133.28	754.55	8396.75	18.82	17.33	4326.58	1065.34	44.97	4,127,263	31	69	4,148,727
Total	68,145,000,000	659.44	3292.00	48553.27	93.87	86.40	22118.46	5484.28	196.17	18,003,675	154	307	18,098,939

	Daily VMT	Pounds per Day							
MPH	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	4,076,111	121.81	167.91	2738.09	17.91	16.48	2605.18	641.79	13.36
10	4,824,741	112.91	208.02	3607.69	16.52	15.20	3099.06	765.05	15.81
15	4,453,950	90.85	223.29	3928.29	13.47	12.40	2877.93	712.22	15.72
20	7,842,134	182.92	570.95	10255.31	27.06	24.90	5115.60	1270.95	37.47
25	21,314,743	508.83	1953.73	34860.03	73.62	67.76	14014.62	3493.09	117.71
30	25,258,699	603.25	2736.93	48208.48	84.97	78.21	16711.12	4175.59	154.66
35	24,319,019	455.20	2369.63	40194.43	62.88	57.88	16082.83	4017.94	128.19
40	14,465,603	239.49	1378.48	22560.79	33.22	30.58	9532.20	2377.97	75.39
45	13,495,971	200.72	1214.78	19526.24	28.32	26.07	8807.72	2188.64	70.84
50	14,023,633	205.76	1285.93	19357.30	29.04	26.74	9064.25	2243.47	77.24
55	15,191,837	240.65	1503.65	20830.52	34.03	31.33	9758.89	2409.21	92.40
60	32,702,366	545.37	3303.02	41642.93	79.27	72.97	20943.12	5163.67	209.20
65	45,181,192	888.51	5030.34	55978.36	125.47	115.51	28843.88	7102.26	299.81
Total	227,150,000	4396.27	21946.66	323688.47	625.77	576.02	147456.41	36561.86	1307.81

Emissions in BAAQMD - Build

MPH	Annual VMT BAAQMD: 2025	Tons per Year ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	Metric Tons per Year CO2	CH4	N2O	CO2e
5	1,222,704,060	18.27	25.18	410.67	2.69	2.47	390.74	96.26	2.00	183,939	4	2	184,757
10	1,447,269,392	16.94	31.20	541.10	2.48	2.28	464.81	114.75	2.37	217,676	4	3	218,659
15	1,336,043,935	13.63	33.49	589.18	2.02	1.86	431.64	106.82	2.36	216,415	3	3	217,449
20	2,352,391,689	27.44	85.63	1538.13	4.06	3.73	767.26	190.62	5.62	515,836	6	8	518,433
25	6,393,747,408	76.32	293.03	5228.45	11.04	10.16	2101.97	523.91	17.65	1,620,298	18	28	1,629,009
30	7,576,809,035	90.48	410.50	7230.51	12.74	11.73	2506.40	626.27	23.20	2,128,798	21	38	2,140,797
35	7,294,934,805	68.27	355.41	6028.53	9.43	8.68	2412.17	602.63	19.23	1,764,549	16	33	1,774,784
40	4,339,222,395	35.92	206.75	3383.76	4.98	4.59	1429.68	356.66	11.31	1,037,733	8	19	1,043,667
45	4,048,363,533	30.10	182.20	2928.63	4.25	3.91	1321.02	328.26	10.62	975,068	7	17	980,315
50	4,206,645,412	30.86	192.87	2903.29	4.36	4.01	1359.49	336.49	11.58	1,063,148	7	18	1,068,689
55	4,557,069,594	36.09	225.52	3124.25	5.10	4.70	1463.68	361.34	13.86	1,271,899	8	21	1,278,350
60	9,809,673,306	81.80	495.40	6245.78	11.89	10.94	3141.14	774.47	31.38	2,879,586	19	46	2,893,829
65	13,552,925,437	133.26	754.47	8395.87	18.82	17.32	4326.13	1065.23	44.97	4,126,827	31	69	4,148,288
Total	68,137,800,000	659.37	3291.65	48548.14	93.86	86.39	22116.13	5483.70	196.15	18,001,772	154	307	18,097,027

MPH	Daily VMT BAAQMD: 2025	Pounds per Day ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	4,075,680	121.79	167.89	2737.80	17.91	16.47	2604.91	641.72	13.36
10	4,824,231	112.90	207.99	3607.31	16.51	15.20	3098.74	764.97	15.81
15	4,453,480	90.84	223.27	3927.88	13.47	12.40	2877.62	712.14	15.72
20	7,841,306	182.90	570.89	10254.22	27.05	24.90	5115.06	1270.81	37.47
25	21,312,491	508.77	1953.52	34856.35	73.61	67.75	14013.14	3492.72	117.70
30	25,256,030	603.18	2736.64	48203.38	84.96	78.20	16709.36	4175.15	154.64
35	24,316,449	455.15	2369.38	40190.18	62.87	57.88	16081.13	4017.52	128.18
40	14,464,075	239.46	1378.34	22558.41	33.22	30.58	9531.19	2377.72	75.38
45	13,494,545	200.70	1214.65	19524.18	28.32	26.07	8806.79	2188.41	70.83
50	14,022,151	205.74	1285.79	19355.26	29.04	26.73	9063.29	2243.23	77.23
55	15,190,232	240.63	1503.49	20828.32	34.03	31.33	9757.86	2408.95	92.39
60	32,698,911	545.31	3302.67	41638.53	79.26	72.96	20940.90	5163.13	209.18
65	45,176,418	888.42	5029.81	55972.45	125.45	115.50	28840.84	7101.51	299.78
Total	227,126,000	4395.80	21944.35	323654.27	625.71	575.95	147440.83	36557.99	1307.67

Emissions in BAAQMD - 2025 Summary

	Annual VMT	Tons per Year								Metric Tons per Year			
	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
Total (No Build)	68,145,000,000	659	3,292	48,553	94	86	22,118	5,484	196	18,003,675	154	307	18,098,939
Total (Build)	68,137,800,000	659	3,292	48,548	94	86	22,116	5,484	196	18,001,772	154	307	18,097,027
Displaced VMT	7,200,000	0	0	5	0	0	2	1	0	1,902	0	0	1,912

	Daily VMT	Pounds per Day							
	BAAQMD: 2025	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
Total (No Build)	227,150,000	4,396	21,947	323,688	626	576	147,456	36,562	1,308
Total (Build)	227,126,000	4,396	21,944	323,654	626	576	147,441	36,558	1,308
Displaced VMT	24,000	0	2	34	0	0	16	4	0

Emissions in BAAQMD - No Build

	Annual VMT	Tons per Year								Metric Tons per Year			
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
5	1,612,778,648	10.71	17.00	407.02	1.68	1.55	515.60	127.04	2.41	221,058	3	2	221,824
10	1,403,378,260	6.03	13.12	328.38	0.95	0.88	450.52	111.20	1.75	160,312	2	2	160,890
15	1,991,743,642	7.11	20.92	529.51	1.13	1.04	642.89	159.04	2.56	234,504	2	3	235,408
20	3,419,974,084	13.94	52.60	1358.40	2.23	2.05	1113.72	276.52	5.98	548,671	4	7	550,914
25	8,794,332,148	37.09	173.23	4486.28	5.94	5.47	2886.28	718.90	18.34	1,683,017	11	24	1,690,335
30	9,893,262,530	44.08	244.16	6293.86	7.04	6.47	3271.03	817.16	24.61	2,258,804	13	33	2,269,042
35	9,343,834,005	30.85	196.85	4932.57	4.93	4.54	3085.61	770.47	19.33	1,774,124	9	27	1,782,346
40	5,031,849,271	14.94	104.66	2552.42	2.39	2.20	1656.35	413.05	10.45	958,594	4	14	962,962
45	5,105,284,458	13.72	101.79	2392.77	2.17	2.00	1664.56	413.49	10.57	969,763	4	14	973,934
50	4,006,153,303	10.88	82.24	1830.68	1.74	1.60	1294.40	320.34	8.92	818,647	3	11	822,074
55	4,448,692,995	13.30	99.77	2051.10	2.13	1.96	1428.86	352.75	11.14	1,022,633	4	14	1,026,788
60	9,041,428,013	29.45	211.93	3944.29	4.75	4.37	2895.34	713.89	24.09	2,210,670	9	29	2,219,459
65	12,824,288,644	47.73	316.05	5300.97	7.70	7.08	4093.57	1007.97	35.19	3,229,044	14	43	3,242,313
Total	76,917,000,000	279.84	1634.31	36408.26	44.80	41.21	24998.74	6201.82	175.33	16,089,841	81	223	16,158,291

	Daily VMT	Pounds per Day							
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	5,375,929	71.42	113.35	2713.47	11.22	10.32	3437.36	846.94	16.06
10	4,677,928	40.22	87.50	2189.21	6.35	5.84	3003.46	741.31	11.65
15	6,639,145	47.41	139.45	3530.09	7.55	6.95	4285.91	1060.25	17.04
20	11,399,914	92.90	350.68	9055.97	14.89	13.70	7424.82	1843.48	39.86
25	29,314,440	247.30	1154.86	29908.55	39.63	36.45	19241.87	4792.68	122.26
30	32,977,542	293.85	1627.70	41959.05	46.91	43.15	21806.84	5447.75	164.09
35	31,146,113	205.65	1312.34	32883.83	32.87	30.24	20570.74	5136.44	128.88
40	16,772,831	99.63	697.71	17016.13	15.93	14.66	11042.35	2753.68	69.64
45	17,017,615	91.45	678.61	15951.78	14.50	13.33	11097.07	2756.62	70.45
50	13,353,844	72.55	548.24	12204.56	11.61	10.68	8629.32	2135.62	59.47
55	14,828,977	88.66	665.12	13674.02	14.23	13.09	9525.72	2351.64	74.29
60	30,138,093	196.36	1412.87	26295.29	31.64	29.10	19302.29	4759.26	160.59
65	42,747,629	318.23	2106.97	35339.81	51.35	47.23	27290.49	6719.79	234.57
Total	256,390,000	1865.61	10895.41	242721.75	298.69	274.74	166658.25	41345.45	1168.84

Emissions in BAAQMD - Build **Design Year (2045) - Build**

	Annual VMT	Tons per Year								Metric Tons per Year			
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
5	1,612,571,067	10.71	17.00	406.97	1.68	1.55	515.54	127.02	2.41	221,029	3	2	221,795
10	1,403,197,631	6.03	13.12	328.34	0.95	0.88	450.46	111.18	1.75	160,291	2	2	160,869
15	1,991,487,284	7.11	20.92	529.45	1.13	1.04	642.80	159.02	2.55	234,474	2	3	235,378
20	3,419,533,898	13.93	52.60	1358.22	2.23	2.05	1113.58	276.49	5.98	548,600	4	7	550,843
25	8,793,200,228	37.09	173.21	4485.70	5.94	5.47	2885.91	718.81	18.34	1,682,800	11	24	1,690,117
30	9,891,989,166	44.07	244.12	6293.05	7.04	6.47	3270.61	817.06	24.61	2,258,514	13	33	2,268,750
35	9,342,631,359	30.84	196.83	4931.94	4.93	4.54	3085.21	770.37	19.33	1,773,896	9	27	1,782,117
40	5,031,201,620	14.94	104.64	2552.09	2.39	2.20	1656.14	413.00	10.44	958,471	4	14	962,838
45	5,104,627,356	13.72	101.78	2392.46	2.17	2.00	1664.35	413.44	10.57	969,638	4	14	973,809
50	4,005,637,671	10.88	82.23	1830.45	1.74	1.60	1294.23	320.30	8.92	818,541	3	11	821,968
55	4,448,120,403	13.30	99.76	2050.84	2.13	1.96	1428.67	352.70	11.14	1,022,502	4	14	1,026,656
60	9,040,264,289	29.45	211.90	3943.79	4.75	4.37	2894.97	713.80	24.09	2,210,385	9	29	2,219,174
65	12,822,638,027	47.73	316.01	5300.29	7.70	7.08	4093.05	1007.84	35.18	3,228,628	14	43	3,241,896
Total	76,907,100,000	279.81	1634.10	36403.58	44.80	41.21	24995.52	6201.02	175.30	16,087,770	81	223	16,156,211

	Daily VMT	Pounds per Day							
MPH	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
5	5,375,237	71.41	113.33	2713.12	11.22	10.32	3436.92	846.83	16.06
10	4,677,325	40.22	87.49	2188.93	6.35	5.84	3003.07	741.22	11.64
15	6,638,291	47.40	139.43	3529.63	7.55	6.95	4285.36	1060.11	17.03
20	11,398,446	92.89	350.64	9054.80	14.89	13.70	7423.87	1843.25	39.85
25	29,310,667	247.26	1154.71	29904.70	39.62	36.45	19239.39	4792.06	122.25
30	32,973,297	293.81	1627.49	41953.65	46.91	43.15	21804.04	5447.05	164.07
35	31,142,105	205.63	1312.17	32879.60	32.87	30.24	20568.09	5135.78	128.86
40	16,770,672	99.61	697.62	17013.94	15.93	14.65	11040.93	2753.33	69.63
45	17,015,425	91.43	678.52	15949.73	14.50	13.33	11095.64	2756.26	70.44
50	13,352,126	72.54	548.17	12202.99	11.61	10.68	8628.21	2135.34	59.46
55	14,827,068	88.65	665.04	13672.26	14.22	13.08	9524.50	2351.33	74.28
60	30,134,214	196.33	1412.69	26291.91	31.64	29.10	19299.80	4758.65	160.57
65	42,742,127	318.19	2106.70	35335.26	51.34	47.22	27286.98	6718.93	234.54
Total	256,357,000	1865.37	10894.01	242690.51	298.65	274.70	166636.80	41340.13	1168.69

Emissions in BAAQMD - 2040 Summary

	Annual VMT	Tons per Year								Metric Tons per Year			
	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX	CO2	CH4	N2O	CO2e
Total (No Build)	76,917,000,000	280	1,634	36,408	45	41	24,999	6,202	175	16,089,841	81	223	16,158,291
Total (Build)	76,907,100,000	280	1,634	36,404	45	41	24,996	6,201	175	16,087,770	81	223	16,156,211
Displaced VMT	9,900,000	0	0	5	0	0	3	1	0	2,071	0	0	2,080

	Daily VMT	Pounds per Day							
	BAAQMD: 2040	ROG	NOX	CO	PM10 Ex	PM2.5 Ex	PM10 Dust	PM2.5 Dust	SOX
Total (No Build)	256,390,000	1,866	10,895	242,722	299	275	166,658	41,345	1,169
Total (Build)	256,357,000	1,865	10,894	242,691	299	275	166,637	41,340	1,169
Displaced VMT	33,000	0	1	31	0	0	21	5	0

Weighted Emission Factors by Vehicle Speed (grams per mile)

Air District: Year: Speed	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SOX	CO2	CH4	N2O	PM10 BW/TW	PM2.5 BW/TW	PM10 RD	PM2.5 RD
BAAQMD: 2019: 5	0.04	0.05	0.67	0.00	0.00	0.29	0.07	0.00	232.52	0.01	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2019: 10	0.03	0.06	0.76	0.00	0.00	0.29	0.07	0.00	243.55	0.01	0.00	0.005	0.002	0.29	0.07
BAAQMD: 2019: 15	0.03	0.06	0.81	0.00	0.00	0.29	0.07	0.00	234.98	0.01	0.01	0.006	0.002	0.29	0.07
BAAQMD: 2019: 20	0.03	0.09	1.20	0.00	0.00	0.30	0.07	0.00	324.06	0.01	0.01	0.010	0.003	0.29	0.07
BAAQMD: 2019: 25	0.03	0.10	1.31	0.00	0.00	0.30	0.07	0.00	325.66	0.01	0.01	0.012	0.004	0.29	0.07
BAAQMD: 2019: 30	0.02	0.10	1.37	0.00	0.00	0.30	0.08	0.00	319.42	0.01	0.01	0.013	0.004	0.29	0.07
BAAQMD: 2019: 35	0.02	0.10	1.26	0.00	0.00	0.30	0.08	0.00	292.25	0.00	0.01	0.013	0.005	0.29	0.07
BAAQMD: 2019: 40	0.02	0.09	1.15	0.00	0.00	0.30	0.07	0.00	275.58	0.00	0.01	0.012	0.004	0.29	0.07
BAAQMD: 2019: 45	0.02	0.09	1.07	0.00	0.00	0.30	0.07	0.00	280.84	0.00	0.01	0.009	0.003	0.29	0.07
BAAQMD: 2019: 50	0.01	0.09	1.01	0.00	0.00	0.29	0.07	0.00	293.88	0.00	0.01	0.006	0.002	0.29	0.07
BAAQMD: 2019: 55	0.02	0.09	0.97	0.00	0.00	0.29	0.07	0.00	311.18	0.00	0.01	0.004	0.001	0.29	0.07
BAAQMD: 2019: 60	0.02	0.09	0.90	0.00	0.00	0.29	0.07	0.00	324.85	0.00	0.01	0.003	0.001	0.29	0.07
BAAQMD: 2019: 65	0.02	0.10	0.89	0.00	0.00	0.29	0.07	0.00	336.57	0.00	0.01	0.002	0.001	0.29	0.07
Air District: Year: Speed	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SOX	CO2	CH4	N2O				
BAAQMD: 2025: 5	0.01	0.02	0.30	0.00	0.00	0.29	0.07	0.00	150.44	0.00	0.00	0.002	0.001	0.29	0.07
BAAQMD: 2025: 10	0.01	0.02	0.34	0.00	0.00	0.29	0.07	0.00	150.40	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2025: 15	0.01	0.02	0.40	0.00	0.00	0.29	0.07	0.00	161.98	0.00	0.00	0.006	0.002	0.29	0.07
BAAQMD: 2025: 20	0.01	0.03	0.59	0.00	0.00	0.30	0.07	0.00	219.28	0.00	0.00	0.008	0.003	0.29	0.07
BAAQMD: 2025: 25	0.01	0.04	0.74	0.00	0.00	0.30	0.07	0.00	253.42	0.00	0.00	0.011	0.004	0.29	0.07
BAAQMD: 2025: 30	0.01	0.05	0.87	0.00	0.00	0.30	0.07	0.00	280.96	0.00	0.01	0.013	0.004	0.29	0.07
BAAQMD: 2025: 35	0.01	0.04	0.75	0.00	0.00	0.30	0.07	0.00	241.89	0.00	0.00	0.013	0.004	0.29	0.07
BAAQMD: 2025: 40	0.01	0.04	0.71	0.00	0.00	0.30	0.07	0.00	239.15	0.00	0.00	0.011	0.004	0.29	0.07
BAAQMD: 2025: 45	0.01	0.04	0.66	0.00	0.00	0.30	0.07	0.00	240.85	0.00	0.00	0.009	0.003	0.29	0.07
BAAQMD: 2025: 50	0.01	0.04	0.63	0.00	0.00	0.29	0.07	0.00	252.73	0.00	0.00	0.006	0.002	0.29	0.07
BAAQMD: 2025: 55	0.01	0.04	0.62	0.00	0.00	0.29	0.07	0.00	279.10	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2025: 60	0.01	0.05	0.58	0.00	0.00	0.29	0.07	0.00	293.55	0.00	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2025: 65	0.01	0.05	0.56	0.00	0.00	0.29	0.07	0.00	304.50	0.00	0.01	0.002	0.001	0.29	0.07
Air District: Year: Speed	ROG	NOX	CO	PM10	PM2.5	PM10 D	PM2.5 D	SOX	CO2	CH4	N2O				
BAAQMD: 2040: 5	0.01	0.01	0.23	0.00	0.00	0.29	0.07	0.00	137.07	0.00	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2040: 10	0.00	0.01	0.21	0.00	0.00	0.29	0.07	0.00	114.23	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2040: 15	0.00	0.01	0.24	0.00	0.00	0.29	0.07	0.00	117.74	0.00	0.00	0.005	0.002	0.29	0.07
BAAQMD: 2040: 20	0.00	0.01	0.36	0.00	0.00	0.30	0.07	0.00	160.43	0.00	0.00	0.008	0.003	0.29	0.07
BAAQMD: 2040: 25	0.00	0.02	0.46	0.00	0.00	0.30	0.07	0.00	191.38	0.00	0.00	0.010	0.004	0.29	0.07
BAAQMD: 2040: 30	0.00	0.02	0.58	0.00	0.00	0.30	0.07	0.00	228.32	0.00	0.00	0.013	0.004	0.29	0.07
BAAQMD: 2040: 35	0.00	0.02	0.48	0.00	0.00	0.30	0.07	0.00	189.87	0.00	0.00	0.012	0.004	0.29	0.07
BAAQMD: 2040: 40	0.00	0.02	0.46	0.00	0.00	0.30	0.07	0.00	190.51	0.00	0.00	0.011	0.004	0.29	0.07
BAAQMD: 2040: 45	0.00	0.02	0.43	0.00	0.00	0.30	0.07	0.00	189.95	0.00	0.00	0.008	0.003	0.29	0.07
BAAQMD: 2040: 50	0.00	0.02	0.41	0.00	0.00	0.29	0.07	0.00	204.35	0.00	0.00	0.006	0.002	0.29	0.07
BAAQMD: 2040: 55	0.00	0.02	0.42	0.00	0.00	0.29	0.07	0.00	229.87	0.00	0.00	0.004	0.001	0.29	0.07
BAAQMD: 2040: 60	0.00	0.02	0.40	0.00	0.00	0.29	0.07	0.00	244.50	0.00	0.00	0.003	0.001	0.29	0.07
BAAQMD: 2040: 65	0.00	0.02	0.37	0.00	0.00	0.29	0.07	0.00	251.79	0.00	0.00	0.002	0.001	0.29	0.07

Re-entrained Paved Road Dust Emission Factors

Methodology

Calculation Methodology: USEPA AP-42, Paved Roads, Section 13.2.1, Revised January 2011:
https://www.arb.ca.gov/ei/areasrc/PMSJVPavedRoadMethod2003.pdf
Avg vehicle weight and silt loading on Local Roads within San Joaquin, Stanislaus, and Merced Counties
http://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9.pdf
Precipitation Days greater than 0.254mm (0.01 in)
https://www.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2016.pdf

E = particulate emission factor (grams of particulate matter/VMT)	
k = particle size multiplier (lb/VMT)	default from AP-42
sL = local roadway silt loading (g/m2)	CalEEMod default
W = average weight of vehicles on the road (tons)	ARB Section 7.9, Table 3
P = number of wet days with at least 0.254mm of precipitation	from WRCC
N = number of days in the averaging period	annual days (365)
g to lb conversion	0.002204623

	sL	W	P	
		0.1	2.4	58 Santa Clara County
		0.1	2.4	63 Alameda County
Average		0.1	2.4	61

For BAAQMD

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Pollutant	Variables					
	k	sL	W	P	N	EF (g per mi)
PM_{10}	0.0022	0.1	2.4	61	365	0.28742
$PM_{2.5}$	0.00054	0.1	2.4	61	365	0.07055