

Appendix A

Notice of Preparation and Comments



COMMUNITY DEVELOPMENT SERVICES

PLANNING AND BUILDING DEPARTMENT

<http://www.edcgov.us/DevServices/>

PLACERVILLE OFFICE:

2850 Fairlane Court, Placerville, CA 95667

BUILDING

(530) 621-5315 / (530) 622-1708 Fax

bldgdept@edcgov.us

PLANNING

(530) 621-5355 / (530) 642-0508 Fax

planning@edcgov.us

LAKE TAHOE OFFICE:

924 B Emerald Bay Rd.

South Lake Tahoe, CA 96150

(530) 573-3330

(530) 542-9082 Fax

TO: Interested Parties

FROM: Rommel [Mel] Pabalinas, Senior Planner, County of El Dorado

DATE: July 14, 2017

RE: Notice of Preparation of a Draft Environmental Impact Report and Notice of Public Scoping Meeting for the Montano De El Dorado Phase II Master Plan

The County of El Dorado (County) will be the lead agency under the California Environmental Quality Act (CEQA) for preparation of an Environmental Impact Report (EIR) for the proposed Montano De El Dorado Phase II Master Plan (Project) in El Dorado County. This Notice of Preparation (NOP) and notice of public scoping meeting has been issued to solicit comments from responsible and trustee agencies and other interested parties regarding the scope and content of the environmental information and analyses that should be included in the Draft EIR. The location, project description, project entitlement requests, and potential environmental effects of the proposed project are summarized below.

Comments and suggestions are requested during the 30-day public comment period for the NOP regarding the environmental issues that will be analyzed in the EIR. Agencies and interested parties may provide the County with written comments on topics to be addressed in the EIR for the project. Because of time limits mandated by State law, comments should be provided no later than 5:00 p.m. on August 14, 2017. Keep in mind that there will be another opportunity to submit detailed comments when the Draft EIR is released for public review. Please mail, email, or fax your comments to:

Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Development Services Department, Planning Division
2850 Fairlane Court, Building C
Placerville, CA 95667
Email: rommel.pabalinas@edcgov.us
Fax: (530) 642-0508

The County will hold a public scoping meeting to provide additional information about the Project and to receive verbal and written comments.

Date: Thursday, August 3, 2017

Time: 6:00 p.m. to 8:00 p.m.

Where: El Dorado Hills Fire Department Station
1050 Wilson Boulevard
El Dorado Hills, CA 95762

The scoping meeting format will be an open house; interested parties may arrive at any time during the 2-hour window to receive information on the Project or provide comments.

**NOTICE OF PREPARATION OF
A DRAFT ENVIRONMENTAL IMPACT REPORT (EIR)
AND NOTICE OF PUBLIC SCOPING MEETING
FOR THE
MONTANO DE EL DORADO PHASE II MASTER PLAN**

Project Information

Location:

The proposed Montano De El Dorado Phase II Master Plan (project) is in El Dorado Hills, California, an unincorporated area of El Dorado County (County) that is approximately 23 miles east of Sacramento and 20 miles west of Placerville (see Exhibit 1). The project represents Phase II expansion of the existing Montano de El Dorado retail center, Phase I of the Master Plan, located north of the project site and at the southeast corner of the Latrobe Road intersection with White Rock Road (see Exhibit 2). Highway 50 is located 0.5 mile north of the project site. Existing land uses adjacent to the project site include single-family residential uses along Monte Verde Drive (Creekside Greens Development) to the east/southeast and the existing Montano de El Dorado retail center to the north. Latrobe Road borders the west/southwest boundary of the site with undeveloped land located just west of Latrobe Road. The southernmost portion of the site tapers into a point just before the intersection of Latrobe Road and Monte Verde Drive.

Project Description:

The project site is approximately 16.8 acres (731,808 square feet) of undeveloped nonnative grassland and ranges in elevation from approximately 575 to 640 feet above sea level sloping gently south to north.

Project Characteristics

1. Site Design

The project is Phase II expansion of an existing retail center (Phase I of the Montano de El Dorado Master Plan) located north of the project site that would include additional retail space, an office building, a boutique hotel, and a small amphitheater to host occasional events (see Exhibit 3).

The retail element of the project consists of development of eight buildings containing approximately 74,000 square feet (sf) of retail space. These buildings would range in size from 3,200 sf to 30,000 sf with suite sizes ranging from 1,000 sf to a maximum of 30,000 square feet. As shown in Exhibit 3, the retail buildings would be dispersed along the eastern and western boundaries of the site with one of the retail buildings located near the center of the site. The retail buildings would be between 24 and 50 feet in height, with some architectural elements reaching 70 feet.

An office building containing approximately 6,000 sf of office space would be in the southernmost portion of the site with a maximum height of 43 feet.

An approximate 63,000 square foot hotel is proposed on the north-western portion of the project site at Latrobe Road (south of the existing Pottery World Building). The hotel would include up to 99 guest rooms, two ground level conference rooms (approximately 1,000 square feet each), a lobby area, and other typical amenities featured in boutique non-full-service hotels (e.g., a small sundry sales area and minimal bar area). The hotel building would be diagonally positioned along the western boundary of the project site. To compensate for hillside elevation variations, the hotel would be trellised where the parking area on the north side of the building is at the second level of the hotel and the west side of the building hosts the main entrance at the first level with the porte-cochere facing the proposed main signalized entrance to the shopping center at Post Street and Latrobe Road. The hotel would be four-stories and 47-feet in height, with some architectural elements reaching 70 feet.

A small amphitheater is proposed near the center of the site to host occasional local events for the El Dorado Hills community and others who are visiting the area. Typical events may include plays, music, and local celebrations. The amphitheater would be constructed in a lowered grade configuration to minimize and contain noise levels from travelling into nearby neighborhoods. Specifically, the stage area would be located approximately 15 feet lower than the top of the viewing area to the south, and approximately 20 feet lower than the grade level of a retail building proposed just north (see Exhibit 3). Sound barrier walls would surround the stage at approximately 20 feet below grade on three sides and heavy landscaping would further dampen noise as well as add ambiance. The seating area facing the stage would be a combination concrete/grass “step down” area that gradually transitions to the lowered stage area.

2. Access, Circulation, and Parking

The primary entrances to the project would be the existing signalized Post Street at White Rock Road and an extension of Post Street to the proposed Latrobe Road entrance. The primary roadway that bisects through the shopping center would be Post Street, which will extend from the currently constructed Post Street at White Rock Road extending southward through the plaza and terminating at the proposed new signalized Latrobe Road entrance. An existing secondary point of ingress/egress (right in/right out only) for the existing retail center is located along White Rock Road. Another secondary point of ingress/egress (right in/right out only) is proposed on Latrobe Road near the southern tip of the project site. Approximately 534 new parking spaces would be created to serve the site.

3. Improvements and Infrastructure

The project would extend infrastructure into the site to serve the proposed commercial use. Parking lot and building lighting would be “night sky friendly” like the existing Montano de El Dorado retail center. During installation of outdoor lighting at the project site, outdoor lighting at the existing retail center would be converted from incandescent to light-emitting diode (LED) to conform with proposed outdoor lighting of the project site. Water-efficient landscaping, including parking lot shade trees, would be provided throughout the site and consistent with the character of surrounding landscaping.

Proposed Entitlement Requests:

- Rezone (Z15-0002) of 16.85-acre property from Regional Commercial- Design Control (CR-DC) to Regional Commercial- Planned Development;
- Commercial Tentative Parcel Map (P15-0006) of 16.85-acre property creating a total of 12 commercial lots, ranging from 0.719 acres to 3.48 acres in size, as part of the proposed Montano De El Dorado Phase 2 Development Plan; and
- Planned Development Permit (PD15-0004) for the proposed expansion of the existing Montano De El Dorado Phase 1 Development. The proposed Phase 2 of the development would include approximately 74,000 square feet of retail/commercial space within eight buildings, 6,000 square feet of office space, 63,000 square feet, 99-room hotel, and an amphitheater.

Additional project information can be accessed via the following web link:

<http://edcapps.edcgov.us/Planning/ProjectInquiryDisplay.asp?ProjectID=20502>

Environmental Effects and Project Alternatives**Probable Environmental Effects:**

Based on a preliminary environmental analysis of the project, the County has determined that the range of issues identified in the CEQA Guidelines, listed below, shall be addressed in the EIR.

- | | |
|-----------------------------------|---|
| • Aesthetics | • Geology, Soils, Minerals, and Paleontological Resources |
| • Hydrology and Water Quality | • Land Use and Planning |
| • Air Quality | • Population and Housing |
| • Biological Resources | • Public Services and Utilities |
| • Cultural Resources | • Traffic and Circulation |
| • Noise and Vibration | • Greenhouse Gas Emissions |
| • Hazards and Hazardous Materials | |

In addition to the above areas, the Draft EIR will also evaluate the potential cumulative and growth inducing effects of the project, as required by CEQA. Reasonably foreseeable future projects in the project vicinity will be considered in this analysis.

Comments and suggestions are requested during the 30-day public comment period for the NOP regarding the environmental issues that will be analyzed in the EIR.

Potential Alternatives to be addressed in the EIR:

In accordance with section 15126.6 of the State CEQA Guidelines, an EIR must “describe a range of reasonable alternatives to the Project, or to the location of the Project, which would feasibly attain most of the basic objectives of the Project, but would avoid or substantially lessen any of the significant effects of the Project, and evaluate the comparative merits of the alternatives.” As required by CEQA, the EIR will evaluate a No Project Alternative. Aside from the No Project Alternative, the County has not yet determined what additional alternatives to the project will be evaluated in the EIR. These will be identified during the environmental review process. Once selected, the alternatives will be analyzed at a qualitative level of detail in the Draft EIR for comparison against the impacts identified for the proposed project, consistent with the requirements of CEQA.

Public Scoping Meeting

The County will hold a public scoping meeting to provide additional information about the project and to receive verbal and written input. The public scoping meeting will be held on August 3, 2017 from 6:00 p.m. to 8:00 p.m. at El Dorado Hills Fire Department Station 85 at 1050 Wilson Boulevard, El Dorado Hills, CA 95762. The scoping meeting format will be an open house; interested parties may arrive at any time during the 2-hour window to receive information on the project or provide input.

Requests for Additional Information

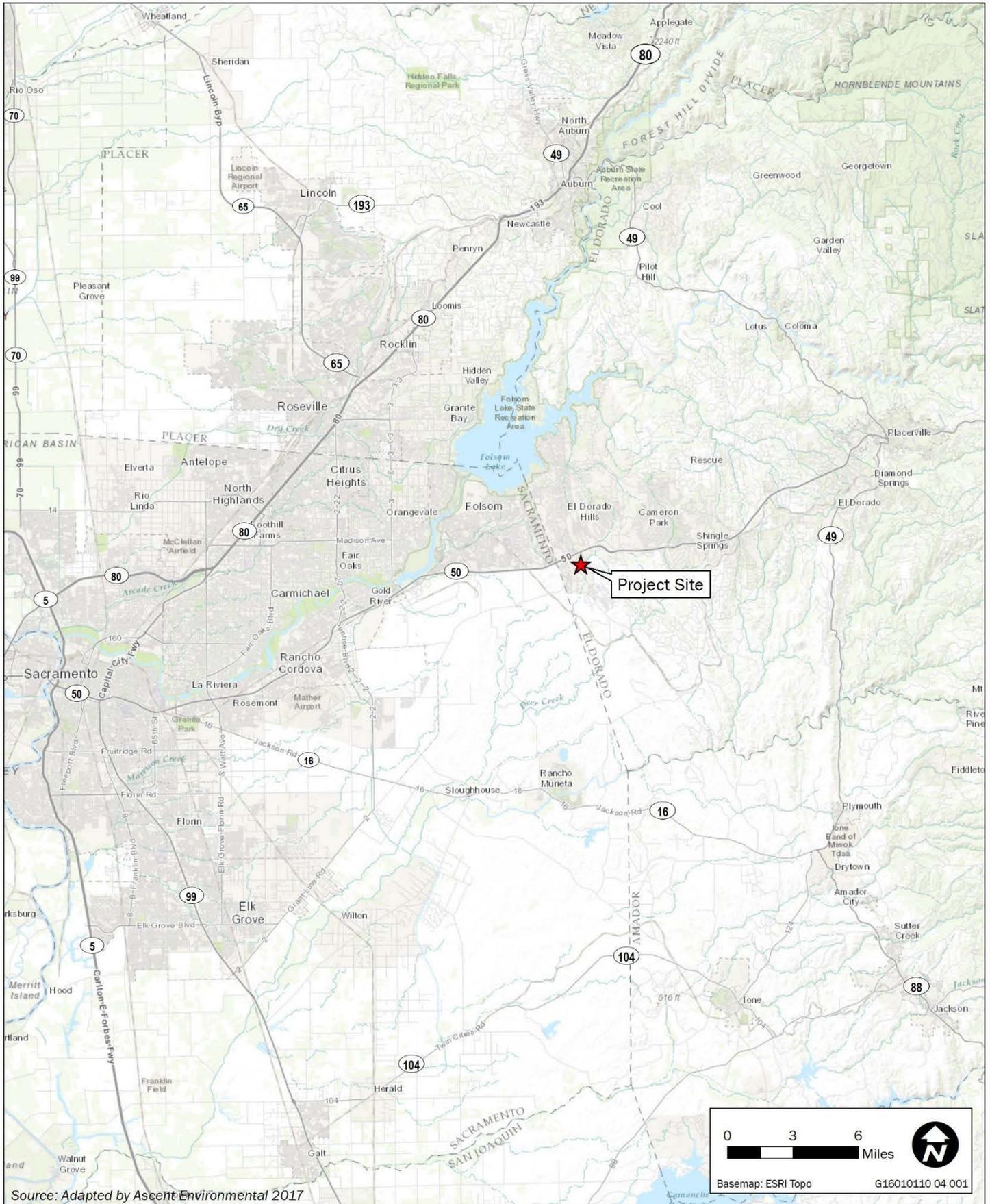
If you have any questions, please contact Rommel (Mel) Pabalinas at the County of El Dorado, Community Development Agency, Development Services Division-Planning, 2850 Fairlane Court, Building C, Placerville, CA95667, by telephone at (530) 621-5363, or by email to rommel.pabalinas@edcgov.us.

Attachments:

Exhibit 1 – Regional Map

Exhibit 2 – Project Site

Exhibit 3 – Preliminary Site Plan



Source: Adapted by Ascent Environmental 2017

Exhibit 1

Regional Map





Source: Adapted by Ascent Environmental 2017

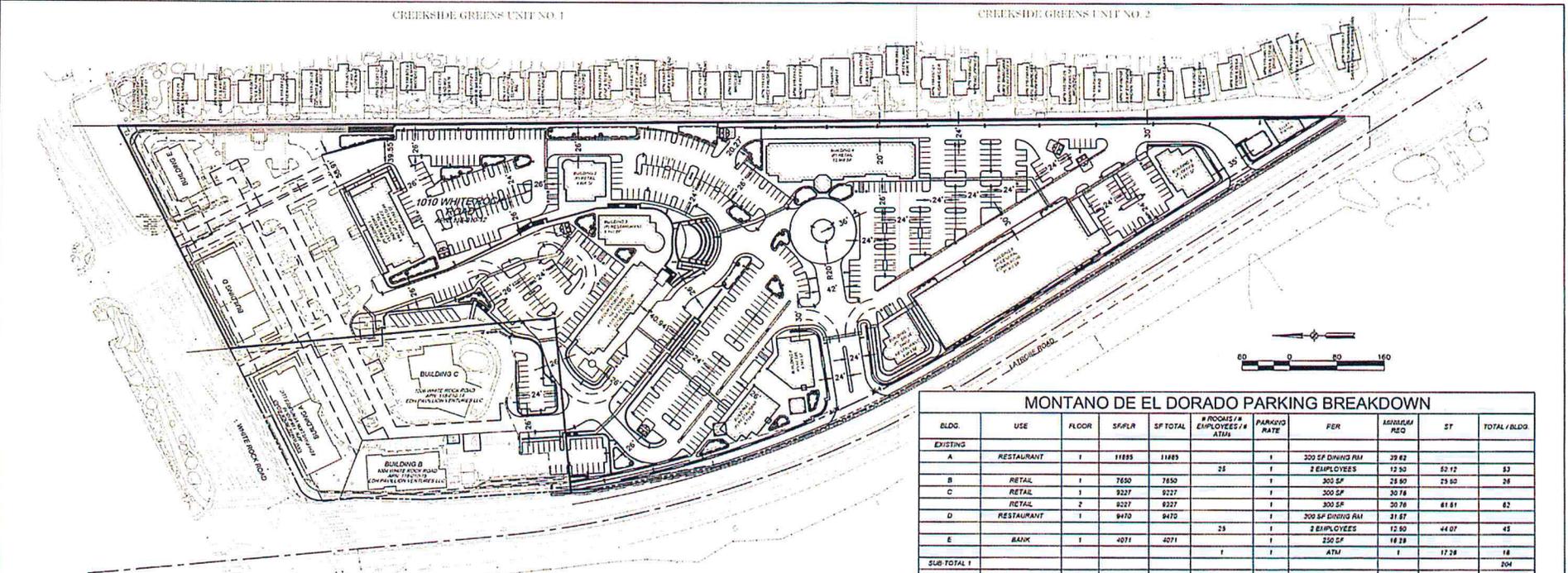
Exhibit 2

Project Site



CREEKSIDE GREENS UNIT NO. 1

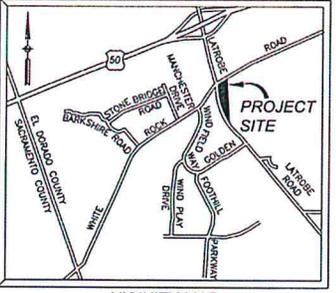
CREEKSIDE GREENS UNIT NO. 2



MONTANO DE EL DORADO PARKING BREAKDOWN

BLDG.	USE	FLOOR	SF/FLR	SF TOTAL	# ROOMS / # EMPLOYEES / # ATMs	PARKING RATE	FER	AMEMB/REQD	ST	TOTAL / BLDG
EXISTING										
A	RESTAURANT	1	11895	11895		1	300 SF DINING RM	29.82		
					25	1	2 EMPLOYEES	12.50	52.12	53
B	RETAIL	1	7650	7650		1	300 SF	25.80	23.50	28
C	RETAIL	1	9227	9227		1	300 SF	30.76		
	RETAIL	2	9227	9227		1	300 SF	30.76	81.81	62
D	RESTAURANT	1	9470	9470		1	300 SF DINING RM	31.87		
					25	1	2 EMPLOYEES	12.50	44.07	45
E	BANK	1	4071	4071		1	250 SF	18.28		
					1	1	ATM	1	17.28	18
SUB-TOTAL 1										
PROPOSED										
1	RETAIL	12	8841	8841		1	300 SF	29.47		
1	OFFICE		8841	8841		1	750 SF	35.38	64.83	65
2	RETAIL	1	4606	4606		1	300 SF	15.35	13.25	18
3	RESTAURANT	1	5193	5193		1	300 SF DINING RM	17.31		
					25	1	2 EMPLOYEES	12.50	29.81	30
4	RETAIL	1	13968	13968		1	300 SF	46.63	46.63	47
5	RESTAURANT	1	4714	4714		1	300 SF DINING RM	15.71		
					25	1	2 EMPLOYEES	12.50	28.21	29
6	RETAIL	1	4331	4331		1	300 SF	14.44	14.44	15
7	DRIVE-THRU RESTAURANT	1	4063	4063		1	300 SF GFA	13.54	13.54	14
8	RETAIL - GROCERY	1	31902	31902		1	200 SF ADA	159.51	159.51	160
9	OFFICE	1	4837	4837		1	250 SF	18.43	18.43	20
10	HOTEL	2, 2, & 4	2636	25914	100	12	GUEST ROOM	100.00		
10	OFFICE	1	1038	1038		1	50% OF 250 SF	2.58		
10	CHECK-IN ENTRY	1	1600	1600		1	50% OF 300 SF	2.87		
10	BANK	1	3200	3200		1	200 SF	12.00		
10	MEETING ROOMS	1	3000	3000		1	50% OF 50 SF	30.00	168.74	167
SUB-TOTAL 2										
TOTAL ESTIMATED REQUIRED										
PARKING PROVIDED										
EXISTING							REGULAR	COMPACT	ACCESSIBLE	
PROPOSED							165	58	10	233
TOTAL PROVIDED							482	22	19	524
TOTAL							647	80	29	767

LEGEND:



X16010110 01 003
Source: RFE Engineering, Inc. 2016





COMMUNITY DEVELOPMENT SERVICES

PLANNING AND BUILDING DEPARTMENT

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LAKE TAHOE OFFICE:

924 B Emerald Bay Rd.

South Lake Tahoe, CA 96150

(530) 573-3330

(530) 542-9082 Fax

TO: Interested Parties

FROM: Aaron Mount, Senior Planner, County of El Dorado

DATE: October 1, 2018

RE: Re-Circulation of Notice of Preparation of a Draft Environmental Impact Report for the Montano De El Dorado Phase I and II Master Plan

The County of El Dorado (County) will be the lead agency under the California Environmental Quality Act (CEQA) for preparation of an Environmental Impact Report (EIR) for the existing Montano De El Dorado Phase I and proposed Phase II Master Plan (Project) in El Dorado County. This re-circulated Notice of Preparation (NOP) has been issued October 1, 2018 due to changes in the project since release of the previous NOP in 2017 and to solicit comments from responsible and trustee agencies and other interested parties regarding the scope and content of the environmental information and analyses that should be included in the Draft EIR. The location, project description, project entitlement requests, and potential environmental effects of the proposed project are summarized below.

Comments and suggestions are requested during the 30-day public comment period for the NOP regarding the environmental issues that will be analyzed in the EIR. Agencies and interested parties may provide the County with written comments on topics to be addressed in the EIR for the project. Because of time limits mandated by State law, comments should be provided no later than 5:00 p.m. on October 31, 2018. Keep in mind that there will be another opportunity to submit detailed comments when the Draft EIR is released for public review. Please mail, email, or fax your comments to:

Aaron Mount, Senior Planner
El Dorado County, Planning and Building Department, Planning Services
2850 Fairlane Court, Building C
Placerville, CA 95667
Email: aaron.mount@edcgov.us
Fax: (530) 621-5345

RE-CIRCULATION OF NOTICE OF PREPARATION OF
A DRAFT ENVIRONMENTAL IMPACT REPORT (EIR)
FOR THE
MONTANO DE EL DORADO PHASE I and II MASTER PLAN

Project Information

Location:

The Montano De El Dorado existing Phase I and proposed Phase II Master Plan (project) is in El Dorado Hills, California, an unincorporated area of El Dorado County (County) that is approximately 23 miles east of Sacramento and 20 miles west of Placerville (see Exhibit 1). The project represents existing Phase I and proposed Phase II expansion of the Montano de El Dorado retail center located at the southeast corner of the Latrobe Road intersection with White Rock Road (see Exhibit 2). Highway 50 is located 0.5 mile north of the project site. Existing land uses adjacent to the project site include single-family residential uses along Monte Verde Drive (Creekside Greens Development) to the east/southeast and the commercial development of El Dorado Hills Town Center to the north. Latrobe Road borders the west/southwest boundary of the site with developed and undeveloped land located just west of Latrobe Road. The southernmost portion of the site tapers into a point just before the intersection of Latrobe Road and Monte Verde Drive.

Project Description:

The Phase I project site is an existing commercial center consisting of five structures totaling 39,645 square feet in size located on four parcels totaling 20.1 acres. Uses include retail, restaurants, and a bank.

The proposed Phase II project site is approximately 16.8 acres (731,808 square feet) of undeveloped nonnative grassland and ranges in elevation from approximately 575 to 640 feet above sea level sloping gently north to south.

Project Characteristics

1. Site Design

The Phase II expansion of the existing retail center (Phase I of the Montano de El Dorado Master Plan) located south of the project site that would include additional retail space, an office building, a hotel, and a small amphitheater to host occasional events (see Exhibit 3). Architectural design of proposed Phase II would match the design of existing Phase I. Other than minor parking improvements, the Phase I site would remain unaffected.

The proposed retail element of the project consists of the development of eight buildings containing approximately 74,000 square feet (sq. ft.) of retail space. These buildings would range in size from 3,200 sf to 30,000 sf with suite sizes ranging from 1,000 sq. ft. to a maximum of 30,000 square feet. As shown in Exhibit 3, the retail buildings would be dispersed along the eastern and western boundaries of the site with one of the retail buildings located near the center of the site. The retail buildings would be between 24 and 50 feet in height, with some architectural elements reaching 70 feet in height.

A proposed office building containing approximately 6,000 sq. ft. of office space would be in the southernmost portion of the site with a maximum height of 43 feet.

An approximate 63,000 square foot hotel is proposed on the north-western portion of the project site at Latrobe Road (south of the existing Pottery World Building). The hotel would include up to 99 guest rooms, two ground level conference rooms (approximately 1,000 square feet each), a lobby area, and other typical amenities featured in boutique non-full-service hotels (e.g., a small sundry sales area and minimal bar area). The hotel building would be diagonally positioned along the western boundary of the project site. To compensate for hillside elevation variations, the hotel would be terraced where the parking area on the north side of the building is at the second level of the hotel and the west side of the building hosts the main entrance at the first level with the porte-cochere facing the proposed main signalized entrance to the shopping center is at Post Street and Latrobe Road. The hotel would be four-stories and 47 feet in height, with some architectural elements reaching 52 feet in height.

A small amphitheater is proposed near the center of the site to host occasional local events for the El Dorado Hills community and others who are visiting the area. Typical events may include plays, music, and local celebrations. The amphitheater would be constructed in a lowered grade configuration to minimize and contain noise levels from travelling into nearby neighborhoods. Specifically, the stage area would be located approximately 15 feet lower than the top of the viewing area to the south, and approximately 20 feet lower than the grade level of a retail building proposed just north (see Exhibit 3). Sound barrier walls would surround the stage at approximately 20 feet below grade on three sides and heavy landscaping would further dampen noise as well as add ambiance. The seating area facing the stage would be a combination concrete/grass “step down” area that gradually transitions to the lowered stage area.

2. Access, Circulation, and Parking

The north entrance to the project would be at the existing signalized Post Street and White Rock Road intersection that introduces an extension of Post Street southward to the proposed Latrobe Road entrance. The primary roadway that bisects through the shopping center would be Post Street, which will extend from the currently constructed Post Street at White Rock Road extending southward through the plaza and terminating at the proposed new signalized Latrobe Road entrance. An existing secondary point of ingress/egress (right in/right out only) for the existing retail center is located along White Rock Road. A proposed secondary point of ingress/egress (right in/right out only) is proposed on Latrobe Road near the southern tip of the project site.

Approximately 534 new parking spaces would be created to serve the site. Pedestrian circulation includes a sidewalk extension and connection to Monte Verde Way.

3. Improvements and Infrastructure

The project would extend infrastructure into the site to serve the proposed commercial use, including an off-site sewer facility improvement along Golden Foothill Parkway. Parking lot and building lighting would be “night sky friendly” consistent with Montano de El Dorado Phase 1. During installation of outdoor lighting at the project site, outdoor lighting at the existing retail center would be converted from incandescent to light-emitting diode (LED) to conform with proposed LED outdoor lighting of the project site. Water-efficient landscaping, including parking lot shade trees, would be provided throughout the site and consistent with the character of surrounding landscaping.

4. Outdoor Special Events

The project would include existing and proposed outdoor special events within existing Phase I and within the proposed amphitheater and parking lots within Phase II. Events at the proposed amphitheater would not conduct music more than once per week and would not be in operation for any music, plays, and presentations later than 9:00 p.m. All events would end no later than 9:00 p.m. except occasional outdoor movie nights (April-September) which would end at 10:00 p.m.

Outdoor special events would include but not be limited to the following:

Month	Event	Where on Site (See Map Below)	Attendance ESTIMATE
January	<ul style="list-style-type: none"> Community Blood Drive at the Amphitheater 	Red	100
February	<ul style="list-style-type: none"> Bridal Fashion Show at the Amphitheater 	Red	100
March	<ul style="list-style-type: none"> Fashion Show at the Amphitheater 	Red	100
	<ul style="list-style-type: none"> Montano Chile Cookoff/plaza wide craft Fair Charity event 	Green	200
April	<ul style="list-style-type: none"> Easter Event/Egg Hunt 	Orange	100
	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater 	Red	75
	<ul style="list-style-type: none"> St. Patrick's Day Event 	Purple	
May	<ul style="list-style-type: none"> Memorial Day Music - Amphitheater 	Red	150
	<ul style="list-style-type: none"> El Dorado Music Theater (EDMT) Play (4 days) 	Red	150
	<ul style="list-style-type: none"> Local Wine Crush & Arts Festival 	Green	
	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater 	Red	350
	<ul style="list-style-type: none"> Amphitheater Music – limited amplification 5:30pm-8:30pm 	Red	75
June	<ul style="list-style-type: none"> Farmers Market 2nd Saturday 	Orange	175
	<ul style="list-style-type: none"> Taste of El Dorado County – Food, Wine, and Crafts 	Green	150
	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater 	Red	75
	<ul style="list-style-type: none"> Amphitheater Music – limited amplification 5pm-8pm 	Red	150
July	<ul style="list-style-type: none"> July 4th celebration in coordination with Town Center 	Orange	300
	<ul style="list-style-type: none"> Farmers Market 2nd Saturday 	Orange	175
	<ul style="list-style-type: none"> Amphitheater Music – limited amplification 5:30pm-8:30pm (Saturdays) 	Red	150
	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater 	Red	
August	<ul style="list-style-type: none"> Farmers Market 2nd Saturday 	Orange	175
	<ul style="list-style-type: none"> El Dorado Music Theater (EDMT) Play - Amphitheater 	Red	150
	<ul style="list-style-type: none"> Amphitheater Music – limited amplification 5:30pm-8:30pm (Saturdays) 	Red	150
	<ul style="list-style-type: none"> Perks & Paws Festival to benefit Humane Society 	Orange	300
	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater 	Red	75
September	<ul style="list-style-type: none"> 9/11 Patriots/Veterans Event 	White	150
	<ul style="list-style-type: none"> Farmers Market 2nd Saturday 	Orange	175
	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater 	Red	
	<ul style="list-style-type: none"> Amphitheater Music – limited amplification 5:30pm-8:30pm (Saturdays) 	Red	75
October	<ul style="list-style-type: none"> Oktoberfest (2-4 days) primarily at 36 Handles Pub. 	Purple	350
	<ul style="list-style-type: none"> Craft Brew Tasting & Blue Grass 	Green	50

	<ul style="list-style-type: none"> Monday Movie at Montano - Amphitheater Classic Car Show 	Red Orange	150
November	<ul style="list-style-type: none"> Cornish Craft Festival & Merchant Each Saturday (Thanksgiving to Christmas) Plaza wide Talent Show to benefit Charity Groups 	Phase I and II Red	250 150
December	<ul style="list-style-type: none"> ➤ Cornish Craft and Merchant Festival Each Saturday (Thanksgiving to Christmas) Plaza wide ➤ Christmas Special/charity event – Coordinate 	Phase I and II	250



Proposed Entitlement Requests:

- Rezone (Z15-0002) of 16.85-acre property from Regional Commercial- Design Control (CR-DC) to Regional Commercial- Planned Development;
- Commercial Tentative Parcel Map (P15-0006) of 16.85-acre property creating a total of 12 commercial lots, ranging from 0.719 acres to 3.48 acres in size, as part of the proposed Montano De El Dorado Phase 2 Development Plan; and
- Planned Development Permit (PD15-0004) for the existing Montano De El Dorado Phase 1 Development and the proposed Phase II expansion. The proposed Phase 2 of the development would include approximately 74,000 square feet of retail/commercial space within eight buildings, 6,000 square feet of office space, 63,000 square feet, 99-room hotel, and an amphitheater.
- Conditional Use Permit (S17-0005) for outdoor special events to take place within existing Phase 1 and proposed Phase II.

Additional project information can be accessed via the following web link:

<https://edcgov.trakit.net/etrakit>

Environmental Effects and Project Alternatives

Probable Environmental Effects:

Based on a preliminary environmental analysis of the project, the County has determined that the range of issues identified in the CEQA Guidelines, listed below, shall be addressed in the EIR.

- Aesthetics
- Hydrology and Water Quality
- Air Quality
- Biological Resources
- Cultural Resources
- Noise and Vibration
- Hazards and Hazardous Materials
- Geology, Soils, Minerals, and Paleontological Resources
- Land Use and Planning
- Population and Housing
- Public Services and Utilities
- Traffic and Circulation
- Greenhouse Gas Emissions

In addition to the above areas, the Draft EIR will also evaluate the potential cumulative and growth inducing effects of the project, as required by CEQA. Reasonably foreseeable future projects in the project vicinity will be considered in this analysis.

Comments and suggestions are requested during the 30-day public comment period for the NOP regarding the environmental issues that will be analyzed in the EIR.

Potential Alternatives to be addressed in the EIR:

In accordance with section 15126.6 of the State CEQA Guidelines, an EIR must “describe a range of reasonable alternatives to the Project, or to the location of the Project, which would feasibly attain most of the basic objectives of the Project, but would avoid or substantially lessen any of the significant effects of the Project, and evaluate the comparative merits of the alternatives.” As required by CEQA, the EIR will evaluate a No Project Alternative. Aside from the No Project Alternative, the County has not yet determined what additional alternatives to the project will be evaluated in the EIR. These will be identified during the environmental review process. Once selected, the alternatives will be analyzed at a qualitative level of detail in the Draft EIR for comparison against the impacts identified for the proposed project, consistent with the requirements of CEQA.

Requests for Additional Information

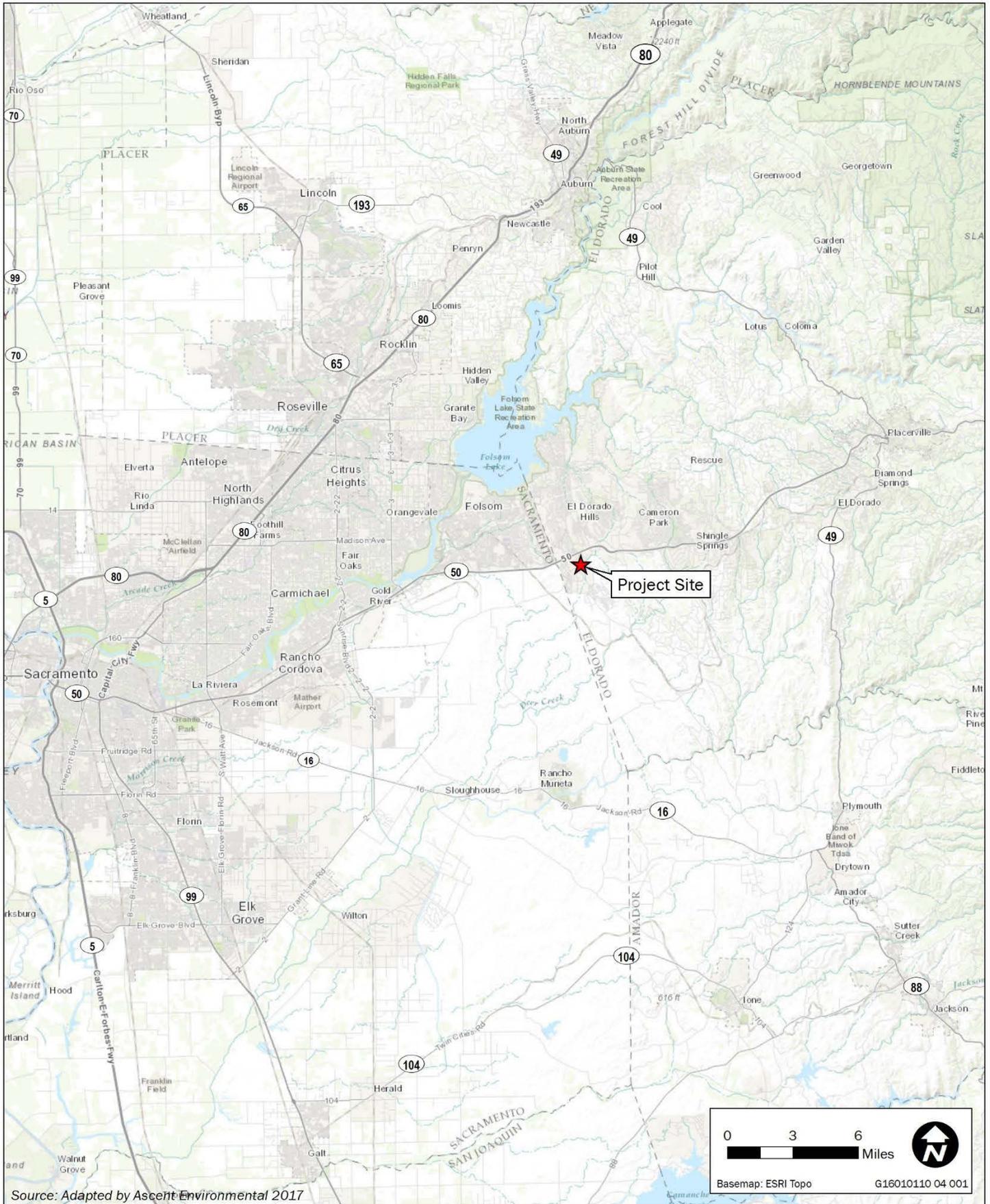
If you have any questions, please contact Aaron Mount at the County of El Dorado, Community Development Services, Planning and Building Department-Planning, 2850 Fairlane Court, Building C, Placerville, CA 95667, by telephone at (530) 621-5345, or by email to aaron.mount@edcgov.us.

Attachments:

Exhibit 1 – Regional Map

Exhibit 2 – Project Site

Exhibit 3 – Preliminary Site Plan



Source: Adapted by Ascent Environmental 2017

Exhibit 1

Regional Map



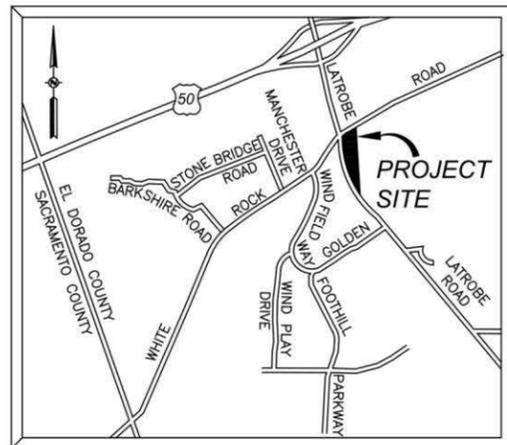
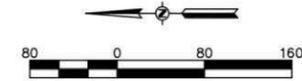
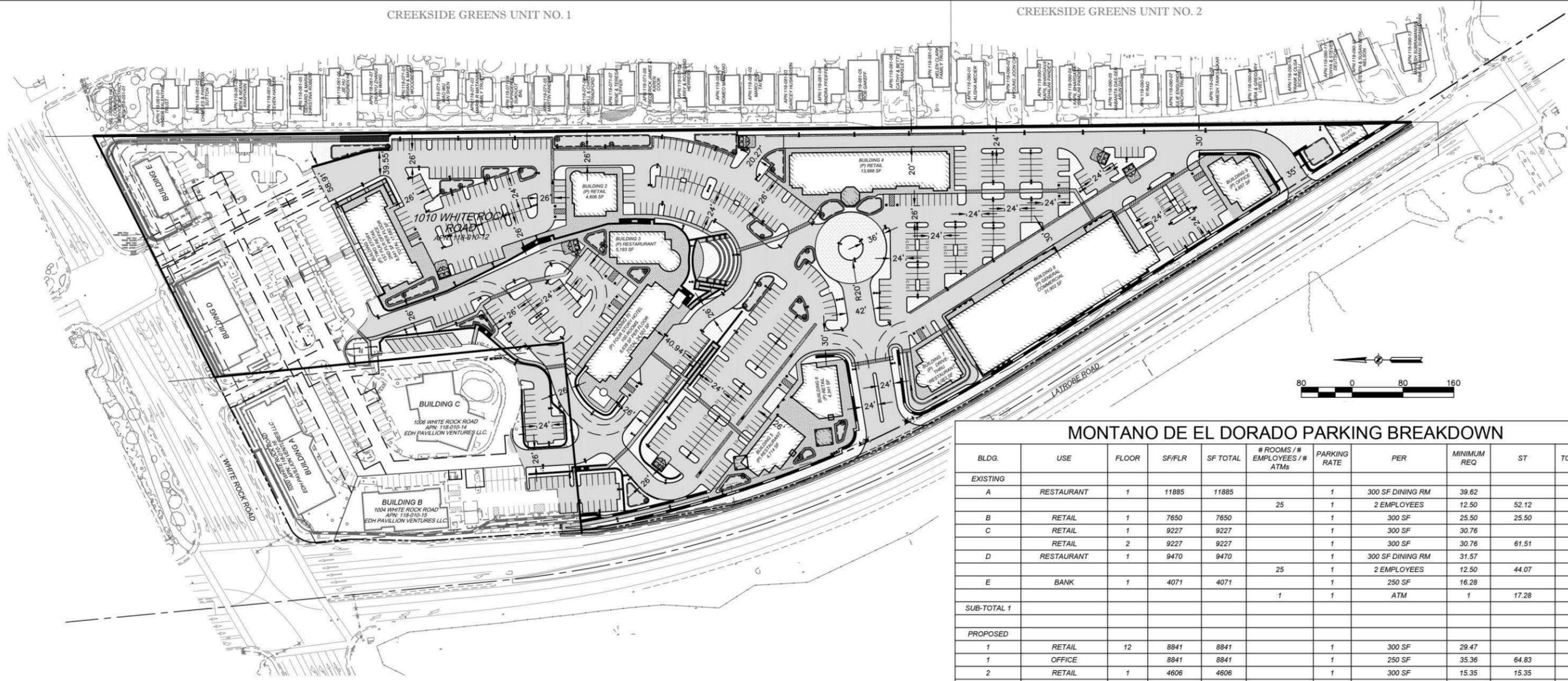


Source: Adapted by Ascent Environmental 2017

Exhibit 2

Project Site





VICINITY MAP
NOT TO SCALE

LEGEND:

FIRE TURNING RADII

INNER RADIUS=40'
INNER RADIUS=56'



MONTANO DE EL DORADO PARKING BREAKDOWN

BLDG.	USE	FLOOR	SF/FLR	SF TOTAL	# ROOMS / # EMPLOYEES / # ATMs	PARKING RATE	PER	MINIMUM REQ	ST	TOTAL / BLDG.
EXISTING										
A	RESTAURANT	1	11885	11885	25	1	300 SF DINING RM	39.62		
B	RETAIL	1	7650	7650		1	2 EMPLOYEES	12.50	52.12	53
C	RETAIL	1	9227	9227		1	300 SF	30.76		
D	RETAIL	2	9227	9227		1	300 SF	30.76	61.51	62
E	RESTAURANT	1	9470	9470		1	300 SF DINING RM	31.57		
F	BANK	1	4071	4071	25	1	2 EMPLOYEES	12.50	44.07	45
G						1	250 SF	16.28		
H						1	ATM	1	17.28	18
SUB-TOTAL 1										
PROPOSED										
1	RETAIL	12	8841	8841		1	300 SF	29.47		
1	OFFICE		8841	8841		1	250 SF	35.36	64.83	65
2	RETAIL	1	4606	4606		1	300 SF	15.35	15.35	16
3	RESTAURANT	1	5193	5193		1	300 SF DINING RM	17.31		
3					25	1	2 EMPLOYEES	12.50	29.81	30
4	RETAIL	1	13988	13988		1	300 SF	46.63	46.63	47
5	RESTAURANT	1	4714	4714		1	300 SF DINING RM	15.71		
5					25	1	2 EMPLOYEES	12.50	28.21	29
6	RETAIL	1	4331	4331		1	300 SF	14.44	14.44	15
7	DRIVE-THRU RESTAURANT	1	4063	4063		1	300 SF GFA	13.54	13.54	14
8	RETAIL - GROCERY	1	31902	31902		1	200 SF AUA	159.51	159.51	160
9	OFFICE	1	4857	4857		1	250 SF	19.43	19.43	20
10	HOTEL	2, 3, & 4	8638	25914	100	1.2	GUEST ROOM	120.00		
10	OFFICE	1	1038	1038		1	50% OF 250 SF	2.08		
10	CHECK-IN ENTRY	1	1600	1600		1	50% OF 300 SF	2.67		
10	BANK	1	3000	3000		1	250 SF	12.00		
10	MEETING ROOMS	1	3000	3000		1	50% OF 50 SF	30.00	166.74	167
SUB-TOTAL 2										
TOTAL ESTIMATED REQUIRED										
PARKING PROVIDED										
							REGULAR	COMPACT	ACCESSIBLE	
EXISTING							185	58	10	253
PROPOSED							482	33	19	534
TOTAL PROVIDED							667	91	29	787

X16010110 01 002

Source: RFE Engineering, Inc 2016



From: [Rommel Pabalinas](mailto:rommel.pabalinas@edcgov.us)
To: [Pat Angell](mailto:Pat.Angell@edcgov.us); [Kristen Stoner](mailto:Kristen.Stoner@edcgov.us); [Vinal Perkins](mailto:Vinal.Perkins@edcgov.us); [Jill Todd](mailto:Jill.Todd@edcgov.us)
Subject: Fwd: EDH DEIR Montano De Eldorado Phase 2 Master Plan
Date: Monday, August 14, 2017 8:54:54 PM

fyi

----- Forwarded message -----

From: <animales00@yahoo.com>
Date: Mon, Aug 14, 2017 at 8:42 PM
Subject: Re: EDH DEIR Montano De Eldorado Phase 2 Master Plan
To: rommel.pabalinas@edcgov.us

On Aug 14, 2017 8:34 AM, animales00@yahoo.com wrote:

I am writing to express concern about the proposed phase 2 developmnt. This new development would cause traffic issues beyond the capacity of the infrastructure at Latrobe and White Rock Road. With only one entrance on White Rock Road to the new development, traffic will be backed up on an already busy street. I propose that they build a 2nd entrance off of LaTrobe to minimize traffic buildup on White Rock Road. Traffic jams would exist on White Rock Road and Latrobe making access to the freeway dangerous and difficult. Cumulative impacts should include the proposed apartment complex in Town Center as well as the residential development along the Highway 50 corridor from Folsom to Do Dorado Hills.

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***Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508***

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From: [Rommel Pabalinas](mailto:rommel.pabalinas@edcgov.us)
To: [Pat Angell](mailto:Pat.Angell@edcgov.us); [Kristen Stoner](mailto:Kristen.Stoner@edcgov.us); [Vinal Perkins](mailto:Vinal.Perkins@edcgov.us); [Jill Todd](mailto:Jill.Todd@edcgov.us)
Subject: Fwd: EDH DEIR Montano Phase 2 comments
Date: Monday, August 14, 2017 8:56:40 PM

f yi

From: <animales00@yahoo.com>
Date: Mon, Aug 14, 2017 at 8:50 PM
Subject: Re: EDH DEIR Montano Phase 2 comments
To: rommel.pabalinas@edcgov.us

With only one entrance off of White Rock Road, adding a 100 room hotel and amphitheatre will significantly increase the traffic on White Rock Road. This road is already very busy during rush hour. I propose a 2nd entrance is added off of Latrobe Road to allow more traffic flow to the new development.

On Aug 14, 2017 8:34 AM, animales00@yahoo.com wrote:

I am writing to express concern about the proposed apartment complex. This new development would cause traffic issues beyond the capacity of the infrastructure at Town Center. The local community would have major traffic buildup at the few entrances into Town Center. Currently, parking is a challenge and adding a major apartment development would exceed the capacity of the available parking by the visitors of the residents. Traffic jams would exist on White Rock Road and Latrobe making access to the freeway dangerous and difficult. Have the cumulative impacts of the proposed hotel near the shopping center at Latrobe and White Rocks been considered also? Living in this community will drastically challenge and no longer be enjoyable.

--

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***Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508***

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DEPARTMENT OF TRANSPORTATION

DISTRICT 3—SACRAMENTO AREA OFFICES

2379 GATEWAY OAKS DRIVE, SUITE 150—MS 19

SACRAMENTO, CA 95833

PHONE (916) 274-0638

FAX (916) 263-1796

TTY 711

www.dot.ca.gov/dist3

*Making Conservation
a California Way of Life.*

August 14, 2017

03-ED-2017-00071

SCH # 2017072027

Mr. Rommel Pabalinas
Senior Planner
El Dorado County
2850 Fairlane Court
Placerville, CA 95667

Montano de El Dorado Phase II Master Plan – Notice of Preparation (NOP)

Dear Mr. Pabalinas:

Thank you for including the California Department of Transportation (Caltrans) in the review of the NOP for the Montano de El Dorado—Phase II Master Plan Draft Environmental Impact Report (DEIR). Caltrans' new mission, vision, and goals signal a modernization of our approach to California's transportation system. We review this project for impacts to the State Highway System (SHS) in keeping with our mission, vision and goals for sustainability/livability economy, and safety/health. We provide these comments consistent with the state's smart mobility goals that support a vibrant economy, and build communities, not sprawl. The following based on the NOP.

The project represents an expansion of the existing Montano de El Dorado retail center located in the southeast corner of the Latrobe Road intersection with White Rock Road in El Dorado Hills, California. The existing center is comprised of approximately 41,300-square feet (sf) of commercial use. The project proposes an additional up to 82,500-sf of commercial use and a 100-room hotel. Caltrans provides the following comments:

Traffic Impact Study (TIS)

Per the October 2016 Kimley-Horn Draft TIS, the project will result in significant impacts to seven (7) intersections, including the U.S. Route (US) 50/El Dorado Hills Boulevard westbound (WB) ramp and US 50/Latrobe Road eastbound (EB) ramp. The impacts are expected to be mitigated by a redistribution of traffic from the completion of the Silva Valley-Phase I interchange, as well as the optimization of the El Dorado Hills Boulevard/Latrobe Road coordinated signal system (TIS, page 40). We request a coordination meeting between Caltrans' Signal Operations Engineer, Traffic Operations Engineer, and the project proponent to develop a subsequent study or Monitoring Plan to determine if the above proposed mitigations are feasible

Mr. Rommel Pabalinas
August 14, 2017
Page 2

and sufficient, or if further improvements are necessary to maintain an acceptable Level of Service (LOS) through the El Dorado Hills Boulevard/Latrobe Road corridor.

Additionally, we would appreciate an explanation in the TIS on why LOS improves and traffic density decreases for US 50 mainline when comparing the Table 11 (Existing plus Project) to future conditions shown in Tables 20 (Cumulative) and 23 (Cumulative Plus Project).

Vehicles Miles Traveled (VMT)

Caltrans seeks to reduce vehicle trips and new VMT associated with development and recommends appropriate measures to avoid, minimize, or mitigate impacts through smart mobility community design and innovative multimodal demand reduction strategies. We recommend identifying possible mitigation to reduce VMT and potential impacts to public safety in the DEIR.

Please provide our office with copies of any further actions regarding this project. We would appreciate the opportunity to review and comment on any changes related to this development.

If you have any questions regarding these comments or require additional information, please contact Jennifer Synhorst, Intergovernmental Review Coordinator at (916) 274-0639 or by email at: jennifer.synhorst@dot.ca.gov.

Sincerely,



JEFFREY MORNEAU
Office of Transportation Planning—South Branch

c: State Clearinghouse



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

2017 AUG 11 PM 1:31

Central Valley Regional Water Quality Control Board

RECEIVED
PLANNING DEPARTMENT

8 August 2017

Rommel Pabalinas
El Dorado County
2850 Fairlane Court
Placerville, CA 95667

CERTIFIED MAIL
91 7199 9991 7035 8421 1809

COMMENTS TO REQUEST FOR REVIEW FOR THE NOTICE OF PREPARATION FOR THE DRAFT ENVIRONMENTAL IMPACT REPORT, MONTANO DE EL DORADO PHASE II MASTER PLAN PROJECT, SCH# 2017072027, EL DORADO COUNTY

Pursuant to the State Clearinghouse's 14 July 2017 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Notice of Preparation for the Draft Environment Impact Report* for the Montano De El Dorado Phase II Master Plan Project, located in El Dorado County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

I. Regulatory Setting

Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law (OAL) and in some cases,

the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues.

For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website:

http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/.

Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Policy is available on page IV-15.01 at:

http://www.waterboards.ca.gov/centralvalleywater_issues/basin_plans/sacsjr.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

II. Permitting Requirements

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan

(SWPPP).

For more information on the Construction General Permit, visit the State Water Resources Control Board website at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml.

Phase I and II Municipal Separate Storm Sewer System (MS4) Permits¹

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/.

For more information on the Caltrans Phase I MS4 Permit, visit the State Water Resources Control Board at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/caltrans.shtml.

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:

http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml

Industrial Storm Water General Permit

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 2014-0057-DWQ.

For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml.

¹ Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACOE). If a Section 404 permit is required by the USACOE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements.

If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACOE at (916) 557-5250.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACOE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance (i.e., discharge of dredge or fill material) of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications.

Waste Discharge Requirements (WDRs)

Discharges to Waters of the State

If USACOE determines that only non-jurisdictional waters of the State (i.e., “non-federal” waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation.

Land Disposal of Dredge Material

If the project will involve dredging, Water Quality Certification for the dredging activity and Waste Discharge Requirements for the land disposal may be needed.

Local Agency Oversight

Pursuant to the State Water Board’s Onsite Wastewater Treatment Systems Policy (OWTS Policy), the regulation of septic tank and leach field systems may be regulated under the local agency’s management program in lieu of WDRs. A county environmental health department may permit septic tank and leach field systems designed for less than 10,000 gpd. For more information on septic system regulations, visit the Central Valley Water Board’s website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/owts/sb_owts_policy.pdf

For more information on the Water Quality Certification and WDR processes, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/help/business_help/permit2.shtml.

Dewatering Permit

If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Risk General Order) 2003-0003 or the Central Valley Water Board's Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Risk Waiver) R5-2013-0145. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground utility vaults. Dischargers seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge.

For more information regarding the Low Risk General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0003.pdf

For more information regarding the Low Risk Waiver and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2013-0145_res.pdf

Regulatory Compliance for Commercially Irrigated Agriculture

If the property will be used for commercial irrigated agricultural, the discharger will be required to obtain regulatory coverage under the Irrigated Lands Regulatory Program. There are two options to comply:

1. **Obtain Coverage Under a Coalition Group.** Join the local Coalition Group that supports land owners with the implementation of the Irrigated Lands Regulatory Program. The Coalition Group conducts water quality monitoring and reporting to the Central Valley Water Board on behalf of its growers. The Coalition Groups charge an annual membership fee, which varies by Coalition Group. To find the Coalition Group in your area, visit the Central Valley Water Board's website at: http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/app_approval/index.shtml; or contact water board staff at (916) 464-4611 or via email at IrrLands@waterboards.ca.gov.
2. **Obtain Coverage Under the General Waste Discharge Requirements for Individual Growers, General Order R5-2013-0100.** Dischargers not participating in a third-party group (Coalition) are regulated individually. Depending on the specific site conditions, growers may be required to monitor runoff from their property, install monitoring wells, and submit a notice of intent, farm plan, and other

action plans regarding their actions to comply with their General Order. Yearly costs would include State administrative fees (for example, annual fees for farm sizes from 10-100 acres are currently \$1,084 + \$6.70/Acre); the cost to prepare annual monitoring reports; and water quality monitoring costs. To enroll as an Individual Discharger under the Irrigated Lands Regulatory Program, call the Central Valley Water Board phone line at (916) 464-4611 or e-mail board staff at IrrLands@waterboards.ca.gov.

Low or Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Dewatering and Other Low Threat Discharges to Surface Waters* (Low Threat General Order) or the General Order for *Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water* (Limited Threat General Order). A complete application must be submitted to the Central Valley Water Board to obtain coverage under these General NPDES permits.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0074.pdf

For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0073.pdf

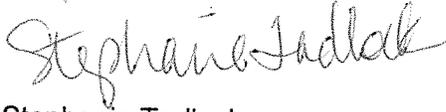
NPDES Permit

If the proposed project discharges waste that could affect the quality of the waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the Central Valley Water Board to obtain a NPDES Permit.

For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/help/business_help/permit3.shtml

If you have questions regarding these comments, please contact me at (916) 464-4644 or
Stephanie.Tadlock@waterboards.ca.gov.



Stephanie Tadlock
Environmental Scientist

cc: State Clearinghouse unit, Governor's Office of Planning and Research, Sacramento



**County of El Dorado
Air Quality Management District**

330 Fair Lane, Placerville Ca 95667
Tel. 530.621.7501 Fax 530.295.2774
www.edcgov.us/airqualitymanagement

Dave Johnston
Air Pollution Control Officer

July 18, 2017

Rommel Pabalinas, Project Planner
El Dorado County Planning Services
2850 Fairlane Court
Placerville, CA 95667

**RE: PD15-0004, Z15-0002 – Montano de El Dorado Phase II
APN 118-010-12 – AQMD Comments**

Dear Mr. Pabalinas:

The El Dorado County Air Quality Management District (AQMD) has reviewed the Air Quality Analysis (Sycamore Environmental Consultants, June 29, 2017) for the proposed Montano de El Dorado Phase II retail commercial and hotel project (45,600 sf office, 31,766 sf retail, 4,063 sf fast food, 9,907 sf restaurant and a 100 room hotel) and has the following comments regarding potential air quality impacts:

Air Quality/GHG Analysis:

While many of the project plans indicate a grocery store, AQMD confirmed with the consultant that there is no grocery store component and instead it will be office space.

AQMD has reviewed the Analysis and concurs with its findings. AQMD recommends the measures proposed to mitigate the operational greenhouse gas emissions impacts be clearly added as conditions of approval for the project.

Applicable General Plan Policies, AQMD Recommendations & Conditions

El Dorado County's General Plan¹ contains two goals specifically addressing air quality: 1) Strive to achieve and maintain ambient air quality standards established by the U.S. Environmental Protection Agency and the California Air Resources Board, and 2) Minimize public exposure to toxic or hazardous air pollutants and air pollutants that create unpleasant odors. The General Plan establishes objectives and policies to guide land use development within the County to reach these goals. The General Plan policies AQMD believes are applicable to the proposed project are listed below:

¹ El Dorado County General Plan: http://edcgov.us/Government/Planning/Adopted_General_Plan.aspx

OBJECTIVE 6.7.2: VEHICULAR EMISSIONS

Reduce motor vehicle air pollution by developing programs aimed at minimizing congestion and reducing the number of vehicle trips made in the County and encouraging the use of clean fuels.

Policy 6.7.2.5 Upon reviewing projects, the County shall support and encourage the use of, and facilities for, alternative-fuel vehicles to the extent feasible. The County shall develop language to be included in County contract procedures to give preference to contractors that utilize low-emission heavy-duty vehicles.

Recommended Action:

Installation of Electric Vehicle Supply Equipment (EVSE): Consistent with this General Plan policy and with the state’s goal of 1.5 million zero-emissions vehicles on California roadways by 2025, AQMD encourages the applicant to consider the installation of EVSE in the parking area and hotel parking garage to encourage the use of electric vehicles (EV). While the AQ Analysis indicates that 2 electric vehicle charging stations will be added in the project area (presumably Level 2), the site could accommodate many more chargers. Additionally, given the large amount of office space and the number of potential employees, AQMD recommends the installation of “workplace” EVSE, which can be at a lower energy level (Level 1 or 110V). This will allow workers to “trickle-charge” during a normal workday. These outlets are simple to install as they are simply standard outlets. Condition #8 below references the sections of the 2016 Cal Green Building Code with respect to required EVSE installations. Resources for property owners concerning EVSE installation are available at: http://opr.ca.gov/s_zero-emissionvehicles.php and <http://www.pevcollaborative.org/policy-makers>.

Naturally Occurring Asbestos: Our previous letter indicated the project would need to obtain an Asbestos Dust Mitigation Plan (ADMP) as the APN is tagged in the system as being within the Asbestos Review Area. However, upon reviewing the Asbestos Review Map in fine detail, only an extremely small portion of the northeast corner (by the US Bank building) is within the ¼ mile buffer area. That portion was previously developed and will not be disturbed as part of this phase. Therefore, completion and adherence to a Fugitive Dust Plan (FDP) will be acceptable.

Future Development:

The following standard conditions would apply to the proposed project:

1. Fugitive Dust: The project construction will involve grading and excavation operations, which will result in a temporary negative impact on air quality with regard to the release of particulate matter (PM₁₀) in the form of dust. The project shall adhere to the regulations and mitigation measures for fugitive dust emissions during the construction process. In addition, a Fugitive Dust Mitigation Plan (DMP) Application with appropriate fees shall be submitted to and approved by the AQMD prior to start of project construction if a Grading Permit is required from the Building Dept. (Rules 223 and 223.1)

2. Paving: Project construction will involve road development and shall adhere to AQMD Cutback and Emulsified Asphalt Paving Materials (Rule 224).
3. Painting/Coating: The project construction may involve the application of architectural coating, which shall adhere to AQMD Rule 215 Architectural Coatings.
4. Open Burning: Burning of wastes that result from "Land Development Clearing" must be permitted through the AQMD. Only vegetative waste materials may be disposed of using an open outdoor fire (Rule 300 Open Burning).
5. Construction Emissions: During construction, all self-propelled diesel-fueled engines greater than 25 horsepower shall be in compliance with the California Air Resources Board (ARB) Regulation for In-Use Off-Road Diesel Fueled Fleets (§ 2449 et al, title 13, article 4.8, chapter 9, California Code of Regulations (CCR)). The full text of the regulation can be found at ARB's website here: <http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm> An applicability flow chart can be found here: http://www.arb.ca.gov/msprog/ordiesel/faq/applicability_flow_chart.pdf Questions on applicability should be directed to ARB at 1-866-634-3735. ARB is responsible for enforcement of this regulation.
6. New Point Source: Prior to construction/installation of any new point source emissions units (e.g., gasoline dispensing facility, emergency standby engine, etc.), Authority to Construct applications shall be submitted to the AQMD. Submittal of applications shall include facility diagram(s), equipment specifications and emission factors. (Rule 501 and 523)
7. Portable Equipment: All portable combustion engine equipment with a rating of 50 horsepower or greater shall be registered with the California Air Resources Board (CARB). A copy of the current portable equipment registration shall be with said equipment. The applicant shall provide a complete list of heavy-duty diesel-fueled equipment to be used on this project, which includes the make, model, year of equipment, daily hours of operations of each piece of equipment.
8. Electric Vehicle Charging – Non-Residential: The commercial portion of the project shall comply with the Non-Residential Mandatory Measures identified in the 2016 Cal Green Building Code §5.106.5.3 concerning installation of electric vehicle supply equipment (EVSE). Plans shall include; the location(s) and type of EVSE, a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit originating at a service panel with sufficient capacity to accommodate a minimum 40A dedicated circuit, and terminating in a suitable enclosure in close proximity to the proposed location of the charging equipment. Plans shall include wiring schematics and electrical calculations to verify the electrical system has sufficient capacity to simultaneously charge electric vehicles at their full rated amperage (Level 2 EVSE). Raceways shall be installed from the electrical service panel to the designated parking areas at the time of initial construction. Please refer to Cal Green Building Stds Code §5.106.5.3 for specific

requirements²:

http://www.edcgov.us/Government/Building/California_Building_Standards_in_Effect.aspx

AQMD Rules and Regulations are available at the following internet address:
www.edcgov.us/airqualitymanagement.

AQMD thanks you for the opportunity to comment on this proposed project. If you have any questions regarding this letter, please contact our office at (530) 621-7501.

Respectfully,

A handwritten signature in blue ink that reads "Adam Baughman". The signature is fluid and cursive, with the first name "Adam" and last name "Baughman" clearly legible.

Adam Baughman
Air Quality Engineer
Air Quality Management District

\\AQData\AQ-Shared\CEQA or AQMD COMMENTS\AQMD Comments\2015\PD15-0004, Z15-0002 Montano de El Dorado Phase II\PD15-0004, Z15-0002 Montano de El Dorado Master Plan - AQMD comments 7-14-17.doc

² Cal Green Building Code: <http://codes.iccsafe.org/app/book/content/2016%20California%20Codes/Green-2017%20Errata/Chapter%205%20Nonresidential%20Mandatory%20Measures.pdf>

From: [Rommel Pabalinas](#)
To: [Pat Angell](#); [Kristen Stoner](#)
Subject: Fwd: PUBLIC NOTICE - NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND NOTICE OF PUBLIC SCOPING MEETING FOR THE MONTANO DE EL DORADO PHASE II MASTER PLAN
Date: Monday, July 17, 2017 12:08:35 PM

fyi

----- Forwarded message -----

From: Amy Velasco <amy.velasco@edcgov.us>
Date: Mon, Jul 17, 2017 at 12:06 PM
Subject: Re: PUBLIC NOTICE - NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND NOTICE OF PUBLIC SCOPING MEETING FOR THE MONTANO DE EL DORADO PHASE II MASTER PLAN
To: Rommel Pabalinas <rommel.pabalinas@edcgov.us>
Cc: Deana Howey <deana.howey@edcgov.us>

Hi Mel,

Here are my comments regarding solid waste generated as a result of building the proposed project. Thanks Amy

Construction and Demolition (C&D) Debris Recycling:

State Law mandates that a minimum of 65% of the waste materials generated from covered Construction and Demolition projects must be diverted from being landfilled by being recycled or reused on site.

Please visit the following website to view El Dorado County's Construction and Demolition Debris Recycling Ordinance Program information and requirements: http://www.edcgov.us/Government/EMD/SolidWaste/Construction_and_Demolition_Debris_Recycling.aspx

Amy Velasco, REHS
Supervising Environmental Health Specialist

Community Development Services
Environmental Management Department
2850 Fairlane Court
Placerville, CA 95667
(530) 621-6665 / FAX (530) 642-1531
amy.velasco@edcgov.us

On Fri, Jul 14, 2017 at 12:40 PM, Deana Howey <deana.howey@edcgov.us> wrote:

Deana Howey
Development Technician II

County of El Dorado
Community Development Agency
Environmental Management Division
2850 Fairlane Court
Placerville, CA 95667
530-621-5373 Phone / 530-642-1531 Fax
deana.howey@edcgov.us

----- Forwarded message -----

From: **Planning Department** <planning@edcgov.us>

Date: Fri, Jul 14, 2017 at 11:15 AM

Subject: PUBLIC NOTICE - NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND NOTICE OF PUBLIC SCOPING MEETING FOR THE MONTANO DE EL DORADO PHASE II MASTER PLAN

To:

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT
AND NOTICE OF PUBLIC SCOPING MEETING FOR THE MONTANO DE EL
DORADO PHASE II MASTER PLAN

DATE: July 14, 2017

TO: Interested Parties

FROM: Rommel [Mel] Pabalinas, Senior Planner, County of El Dorado

The County of El Dorado (County) will be the lead agency under the California Environmental Quality Act (CEQA) for preparation of an Environmental Impact Report (EIR) for the proposed Montano De El Dorado Phase II Master Plan (Project) in El Dorado County. This Notice of Preparation (NOP) and notice of public scoping meeting has been issued to solicit comments from responsible and trustee agencies and other interested parties regarding the scope and content of the environmental information and analyses that should be included in the Draft EIR. The location, project description, project entitlement requests, and potential environmental effects of the proposed project are summarized below.

Comments and suggestions are requested during the 30-day public comment period for the NOP regarding the environmental issues that will be analyzed in the EIR. Agencies and interested parties may provide the County with written comments on topics to be addressed in the EIR for the project. Because of time limits mandated by State law, comments should be provided no later than 5:00 p.m. on August 14, 2017. Keep in mind that there will be another opportunity to submit detailed comments when the Draft EIR is released for public review. Please mail, email, or fax your comments to:

Rommel (Mel) Pabalinas, Senior Planner

El Dorado County Development Services Department, Planning Division

2850 Fairlane Court, Building C

Placerville, CA 95667

Email: rommel.pabalinas@edcgov.us

Fax: (530) 642-0508

The County will hold a public scoping meeting to provide additional information about the Project and to receive verbal and written comments.

Date: Thursday, August 3, 2017

Time: 6:00 p.m. to 8:00 p.m.

Where: El Dorado Hills Fire Department Station, 1050 Wilson Boulevard, El Dorado Hills, CA 95762

The scoping meeting format will be an open house; interested parties may arrive at any time during the 2-hour window to receive information on the Project or provide comments.

PROJECT INFORMATION

LOCATION:

The proposed Montano De El Dorado Phase II Master Plan (project) is in El Dorado Hills, California, an unincorporated area of El Dorado County (County) that is approximately 23 miles east of Sacramento and 20 miles west of Placerville (see Exhibit 1). The project represents Phase II expansion of the existing Montano de El Dorado retail center, Phase I of the Master Plan, located north of the project site and at the southeast corner of the Latrobe Road intersection with White Rock Road (see Exhibit 2). Highway 50 is located 0.5 mile north of the project site. Existing land uses adjacent to the project site include single-family residential uses along Monte Verde Drive (Creekside Greens Development) to the east/southeast and the existing Montano de El Dorado retail center to the north. Latrobe Road borders the west/southwest boundary of the site with undeveloped land located just west of Latrobe Road. The southernmost portion of the site tapers into a point just before the intersection of Latrobe Road and Monte Verde Drive.

PROJECT DESCRIPTION:

The project site is approximately 16.8 acres (731,808 square feet) of undeveloped nonnative grassland and ranges in elevation from approximately 575 to 640 feet above sea level sloping gently south to north.

Project Characteristics

1. Site Design

The project is Phase II expansion of an existing retail center (Phase I of the Montano de El Dorado Master Plan) located north of the project site that would include additional retail space, an office building, a boutique hotel, and a small amphitheater to host occasional events (see Exhibit 3).

The retail element of the project consists of development of eight buildings containing approximately 74,000 square feet (sf) of retail space. These buildings would range in size from 3,200 sf to 30,000 sf with suite sizes ranging from 1,000 sf to a maximum of 30,000 square feet. As shown in Exhibit 3, the retail buildings would be dispersed along the eastern and western boundaries of the site with one of the retail buildings located near the center of the site. The retail buildings would be between 24 and 50 feet in height, with some architectural elements reaching 70 feet.

An office building containing approximately 6,000 sf of office space would be in the southernmost portion of the site with a maximum height of 43 feet.

An approximate 63,000 square foot hotel is proposed on the north-western portion of the project site at Latrobe Road (south of the existing Pottery World Building). The hotel would include up to 99 guest rooms, two ground level conference rooms (approximately 1,000 square feet each), a lobby area, and other typical amenities featured in boutique non-full-service hotels (e.g., a small sundry sales area and minimal bar area). The hotel building would be diagonally positioned along the western boundary of the project site. To compensate for hillside elevation variations, the hotel would be trellised where the parking area on the north side of the building is at the second level of the hotel and the west side of the building hosts the main entrance at the first level with the porte-cochere facing the proposed main signalized entrance to the shopping center at Post Street and Latrobe Road. The hotel would be four-stories and 47-feet in height, with some architectural elements reaching 70 feet.

A small amphitheater is proposed near the center of the site to host occasional local events for the El Dorado Hills community and others who are visiting the area. Typical events may include plays, music, and local celebrations. The amphitheater would be constructed in a lowered grade configuration to minimize and contain noise levels from travelling into nearby neighborhoods. Specifically, the stage area would be located approximately 15 feet lower than the top of the viewing area to the south, and approximately 20 feet lower than the grade level of a retail building proposed just north (see Exhibit 3). Sound barrier walls would surround the stage at approximately 20 feet below grade on three sides and heavy landscaping would further dampen noise as well as add ambiance. The seating area facing the stage would be a combination concrete/grass “step down” area that gradually transitions to the lowered stage area.

2. Access, Circulation, and Parking

The primary entrances to the project would be the existing signalized Post Street at White Rock Road and an extension of Post Street to the proposed Latrobe Road entrance. The primary roadway that bisects through the shopping center would be Post Street, which will extend from the currently constructed Post Street at White Rock Road extending southward through the plaza and terminating at the proposed new signalized Latrobe Road entrance. An existing secondary point of ingress/egress (right in/right out only) for the existing retail center is located along White Rock Road. Another secondary point of ingress/egress (right

in/right out only) is proposed on Latrobe Road near the southern tip of the project site. Approximately 534 new parking spaces would be created to serve the site.

3. Improvements and Infrastructure

The project would extend infrastructure into the site to serve the proposed commercial use. Parking lot and building lighting would be “night sky friendly” like the existing Montano de El Dorado retail center. During installation of outdoor lighting at the project site, outdoor lighting at the existing retail center would be converted from incandescent to light-emitting diode (LED) to conform with proposed outdoor lighting of the project site. Water-efficient landscaping, including parking lot shade trees, would be provided throughout the site and consistent with the character of surrounding landscaping.

PROPOSED ENTITLEMENT REQUESTS:

1) Rezone (Z15-0002) of 16.85-acre property from Regional Commercial- Design Control (CR-DC) to Regional Commercial- Planned Development;

2) Commercial Tentative Parcel Map (P15-0006) of 16.85-acre property creating a total of 12 commercial lots, ranging from 0.719 acres to 3.48 acres in size, as part of the proposed Montano De El Dorado Phase 2 Development Plan; and

3) Planned Development Permit (PD15-0004) for the proposed expansion of the existing Montano De El Dorado Phase 1 Development. The proposed Phase 2 of the development would include approximately 74,000 square feet of retail/commercial space within eight buildings, 6,000 square feet of office space, 63,000 square feet, 99-room hotel, and an amphitheater.

Additional project information can be accessed via the following web link:

<http://edcapps.edcgov.us/Planning/ProjectInquiryDisplay.asp?ProjectID=20502>

ENVIRONMENTAL EFFECTS AND PROJECT ALTERNATIVES

PROBABLE ENVIRONMENTAL EFFECTS:

Based on a preliminary environmental analysis of the project, the County has determined that the range of issues identified in the CEQA Guidelines, listed below, shall be addressed in the EIR.

- Aesthetics
- Hydrology and Water Quality
- Air Quality
- Biological Resources
- Cultural Resources
- Noise and Vibration
- Hazards and Hazardous Materials
- Geology, Soils, Minerals, and Paleontological Resources
- Land Use and Planning
- Population and Housing
- Public Services and Utilities
- Traffic and Circulation
- Greenhouse Gas Emissions

In addition to the above areas, the Draft EIR will also evaluate the potential cumulative and growth inducing effects of the project, as required by CEQA. Reasonably foreseeable future

projects in the project vicinity will be considered in this analysis.

Comments and suggestions are requested during the 30-day public comment period for the NOP regarding the environmental issues that will be analyzed in the EIR.

Potential Alternatives to be addressed in the EIR:

In accordance with section 15126.6 of the State CEQA Guidelines, an EIR must “describe a range of reasonable alternatives to the Project, or to the location of the Project, which would feasibly attain most of the basic objectives of the Project, but would avoid or substantially lessen any of the significant effects of the Project, and evaluate the comparative merits of the alternatives.” As required by CEQA, the EIR will evaluate a No Project Alternative. Aside from the No Project Alternative, the County has not yet determined what additional alternatives to the project will be evaluated in the EIR. These will be identified during the environmental review process. Once selected, the alternatives will be analyzed at a qualitative level of detail in the Draft EIR for comparison against the impacts identified for the proposed project, consistent with the requirements of CEQA.

PUBLIC SCOPING MEETING

The County will hold a public scoping meeting to provide additional information about the project and to receive verbal and written input. The public scoping meeting will be held on August 3, 2017 from 6:00 p.m. to 8:00 p.m. at El Dorado Hills Fire Department Station 85 at 1050 Wilson Boulevard, El Dorado Hills, CA 95762. The scoping meeting format will be an open house; interested parties may arrive at any time during the 2-hour window to receive information on the project or provide input.

REQUESTS FOR ADDITIONAL INFORMATION

If you have any questions, please contact Rommel (Mel) Pabalinas at the County of El Dorado, Community Development Agency, Development Services Division-Planning, 2850 Fairlane Court, Building C, Placerville, CA95667, by telephone at (530) 621-5363, or by email to rommel.pabalinas@edcgov.us.

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***Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508***

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prohibited. If you are not the intended recipient, please contact the sender immediately and permanently delete the original and any copies of this email and any attachments.

From: [Rommel Pabalinas](#)
To: [Pat Angell](#); [Kristen Stoner](#); [Vinal Perkins](#); [Jill Todd](#)
Subject: Mel's Input on NOP for Montano De El Dorado
Date: Tuesday, August 15, 2017 9:45:47 AM

Hi All-

I took some notes of items brought up at the Scoping Meeting two weeks ago. They are just bullet points of what the concerns that I heard from the attendees. Please include them into the environmental analysis, as applicable:

- Public Safety (mostly traffic related)
- Wetland Features (underground seep if any)
- Left Turn out of Monte Verde into White Rock Road
- Parking
- Lighting
- JPA improvements
- Traffic Impacts (into Cresliegh residential development)

Vinal/Jill-

Please share any information that you recall that maybe useful for the EIR.

Thanks.

=====
***Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508***

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From: [Rommel Pabalinas](#)
To: [Pat Angell](#); [Kristen Stoner](#); [Vinal Perkins](#); [Jill Todd](#)
Subject: Fwd: Montano Phase II - concern
Date: Tuesday, August 15, 2017 2:52:37 PM

late NOP comment.

----- Forwarded message -----

From: **Nabanita Das-Sen** <ndassen@ucdavis.edu>
Date: Tue, Aug 15, 2017 at 2:38 PM
Subject: Montano Phase II - concern
To: "rommel.pabalinas@edcgov.us" <rommel.pabalinas@edcgov.us>

Hello Rommel Pabalinas:

My husband and I live on Monte Verde Drive, and the hotel and amphitheater has been planned right next to my backyard. I have the following concerns along with many of my neighbors:

1. First of all the 99 room hotel, the space in the lot is not enough to have a hotel and parking lot for it. Our backyards will lose all privacy and will be very insecure with all the unknown people right across our fence. People will not feel comfortable being in the backyard in afternoon and nobody will be able to allow their kids play in the backyard either. Our homes will lose privacy too, with a hotel right next to our fence we will not be able to keep the doors and windows open on the western side. Specially people like us who live in single-story houses. If the hotel is a multi-storied structure, it will also affect our natural light – making our houses darker. All of these issues will impact the living conditions of our houses negatively, thereby affecting our home values.

2. The amphitheater will be even worse. On the days of any programs, there will be loud noise, a lot of people right next to our fence. There will be more loud drunk people, traffic and it will be a security threat, if in any concert the things go out of hand. Moreover, the people attending the programs will park on our residential streets, run the stop lights and nobody will be able to allow their kids to play in front yard. We experience this every 4th of July, and once a year is okay. But every weekend will be totally a nightmare. It will affect the security of the neighborhood adversely thereby again affecting the home values in the area.

I really appreciate the development El Dorado Hills is getting, but we have similar sized or bigger open lots near the business park or by the CVS. I am not sure why the county planned to build hotel and amphitheater right next to a residential neighborhood. Any meetings that came up regarding this issue was always scheduled on a weekday right around noon. It is very

difficult for us who work outside home to attend such meetings. So, if you can please consider our issues and change the location of the development, it would be very helpful. Also, if these meetings can be arranged around 6/7 pm on weekdays or weekends, it would possible for us to come and voice our concerns to the county.

Thank you so much for listening to our concerns. I hope we can have the development in El Dorado Hills while keeping it as a peaceful neighborhood as it is today.

Regards,

Nabanita Das-Sen

System Analyst VI, Epic Resolute

UC Davis Medical Center

Office: 916-703-2961

Cell: 916-529-0346

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***Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508***

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From: [Rommel Pabalinas](#)
To: [Pat Angell](#); [Kristen Stoner](#)
Subject: Fwd: Notice of Preparation for Draft EIR - Montano De El Dorado Phase II Master Plan
Date: Tuesday, July 18, 2017 7:30:04 AM

fyi

----- Forwarded message -----

From: **Sandra Pfeiffer** <sandy54@ymail.com>
Date: Tue, Jul 18, 2017 at 6:52 AM
Subject: Notice of Preparation for Draft EIR - Montano De El Dorado Phase II Master Plan
To: "rommel.pabalinas@edcgov.us" <rommel.pabalinas@edcgov.us>

I live in the subdivision backing the proposed development. I was aware of the planned development when I purchased here and am relatively satisfied with the initial plan included with the Notice. After some of the issues with Montano Phase I, I do want to ensure that the following are adequately covered in the Draft EIR:

- * Land Use and Planning - Elevation changes for the land. I would not be happy with a 20 ft retaining wall backing up to the property as occurred in Phase I
- * Land Use and Planning - Easement between the properties. I'd like some assurance that the easements would be honored unlike what occurred in Phase I
- * Noise and Vibration - Information around noise restrictions for the amphitheater as well as planned frequency of events
- * Noise and Vibration - Information around noise restrictions for the retail businesses such as timing of any delivery trucks and trash pickups during times when residents could normally be considered as sleeping
- * Biological Resources - Information on how the developer will assist with the inevitable pushing of snakes and rodents into the residential area. Will they assist in removal of these animals from the residential area? If so, what form will that assistance take?
- * Traffic and circulation - during the development: will traffic reasonably be expected to short-cut through our neighborhood to avoid any planned road closures during development? If so, what assistance will the developer provide to keep speeds reasonable to protect our neighborhood's children?
- * Traffic and circulation - after the development: will the light at Latrobe and Monte Verde be upgraded to be more responsive to right turns?

Thank you,

Sandra Pfeiffer

--

***Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508***

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From: [Rommel Pabalinas](#)
To: [Pat Angell](#); [Kristen Stoner](#); [Jill Todd](#); [Vinal Perkins](#)
Subject: Fwd: Montano Phase 2
Date: Friday, August 11, 2017 2:28:43 PM

Fyi

----- Forwarded message -----

From: "Rusty Everett" <rusty@speckproducts.com>
Date: Aug 11, 2017 1:42 PM
Subject: Montano Phase 2
To: "rommel.pabalinas@edcgov.us" <rommel.pabalinas@edcgov.us>
Cc: "Planning@edcgov.us" <Planning@edcgov.us>, "bosone@edcgov.us" <bosone@edcgov.us>

Mel

Hi I wanted to give some input on the Montano Phase 2 project.

The project only has one concern for me beyond the already bad traffic on all 4 corners of Latrobe and White Rock. How will they mitigate more traffic on this road?

The biggest concern I have is that I am about a mile away and I constantly have to call Relish Burger to turn down the DJ music on the patio as we can hear the songs well enough to clearly identify the songs.

They have made efforts with higher glass walls to help keep the sound in so when this packet hit my mail box and I see the plans for an amphitheater I was alarmed at what that will mean for sound in our residential areas.

That's a great concern to me and I suspect the residents on Monte Verde Dr which backs up to the development.

The Amphitheater doesn't seem needed as we already do concerts in the Town Center area so why do we need another venue for live events with amplified sounds right up against residential areas?

Regards

Rusty Everett
14 year resident El dorado Hills

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From: [Rommel Pabalinas](#)
To: [Pat Angell](#); [Kristen Stoner](#); [Vinal Perkins](#); [Jill Todd](#)
Subject: Fwd: Comments/ Concers- Montano De El Dorado Phase II
Date: Friday, August 18, 2017 1:55:18 PM

fyi

----- Forwarded message -----

From: **Shalini Pandey** <shalini_pndy@yahoo.com>
Date: Fri, Aug 18, 2017 at 1:27 PM
Subject: Comments/ Concers- Montano De El Dorado Phase II
To: "rommel.pabalinas@edcgov.us" <rommel.pabalinas@edcgov.us>

El Dorado County Development Services Department
Planning Division, Attn: Rommel (Mel) Pabalinas
Placerville, CA 95667

Dear Sir,

I am writing as a local resident to **OBJECT** to the Montano De El Dorado Phase II Master Plan in El Dorado Hills. I am greatly concerned that the proposal, if it goes ahead, will have significant detrimental effects on the environment and the local community. As a local resident this is a matter of concern which affects me and others. I have examined the plans and I know the site well. I wish to object strongly to the expansion of the existing retail center.

We live in the community right behind the site expansion. The community has already witnessed a number of crimes just by the construction of Montano De El Dorado Phase I project. It is needless to say that Building a market place right behind a residential community makes it more dangerous for the residents living in that community. It was not far back, when on January 8, 2015, shooting at 36 handles (Irish Pub) right behind the residential community took place. In another incident, on July 25, 2016 the El Dorado County Sheriff's Office received a report of a bank robbery at the US Bank, located at 1020 White Rock Road suite E in El Dorado Hills, Ca. The suspect was apparently hiding in one of the creeks at Concordia drive and Solari court in our residential community. Now and then our community has been exposed to all these criminals and robberies due to the Montano de El Dorado shopping center at the corner of Latrobe Road and White Rock Road. I would like to ask the El Dorado County and the planning committee who will be passing this proposal- Does EL Dorado county has enough Sherrif's to deal with the increasing crime that would result from all this new market places being built? How safe are we living in an area surrounded with all these treats and to what extent can the Sherriff department be able to curve/control crime based on the man power and resources available?

Also, there are enough traffic issues already and it is hard for the residents to come out of the community on the White rock road. This shopping complex is further going to increase the traffic jams that are encountered every day and

the traffic is backed up all the way up to Target. Coming out of the suicide lane makes the residents more prone to accidents which will become even worse. Often, our residential community is used as a pass through to go to other roads and vehicles are being driven at fast speed without taking into consideration that they are being cut- through a community area further exposing our kids to danger. Also, our community is often being used as parking place for cars coming to the town center event. With the expansion of Montano De El Dorado market place all these issues are going to worsen and I guess the county is supporting this instead of trying to solve the issues of the residents.

Also, building too much around El Dorado Hills have resulted reduced view quality which would further cause economic losses for communities. When the economy goes down as we witnessed a few years back, the shops/ restaurants are left vacant and declared bankrupt by the owners and they become a housing place for homeless and results in exposure to vandalism.

If this plan is approved and any of the residents are hurt due to it, it will be the liability of the county and the investors of this plan. We will hold the county responsible for risking the lives of all the residents.

PS: - The letter received by us is dated July 14th. We did not receive the letter in mail till almost the end of July. The open house was not till August 3 where we actually got to meet the people to see what was going on. How can the residents only be given less than a month to submit their comments? This only goes on to show that the El Dorado County Development Services Department is already on the investor's/ planner's side.

From,

The worried residents

--

=====
*Rommel (Mel) Pabalinas, Senior Planner
El Dorado County Community Development Agency-
Development Services Division-Planning Services
Planning Division
2850 Fairlane Court
Placerville, CA 95667
Main Line 530-621-5355
Direct line 530-621-5363
Fax 530-642-0508*

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**Aaron Mount** <aaron.mount@edcgov.us>

Montano

1 message

Robert Brannam <e68996@gmail.com>

Thu, Oct 4, 2018 at 6:14 PM

To: aaron.mount@edcgov.us

Mr. Mount,

You have done some nice design work. As a design engineer, I appreciate that. As a life long EDC resident, I reject the plan because it represents another attack on our rural lifestyle. The traffic is already getting worse with all the development long Latrobe Rd and it will get much worse with all of the development in progress on the south side of Hwy 50 across East Bidwell. How much worse do you want to make my commute down the hill? I get the fact that you are just doing your job. Try to understand my concerns as a person who grew up in Placerville when this county was quiet and traffic was never a concern.



Aaron Mount <aaron.mount@edcgov.us>

Montano De El Dorado Phase I & II

1 message

Marysam67 <marysam67@yahoo.com>

Thu, Oct 4, 2018 at 8:13 PM

To: aaron.mount@edcgov.us

Mr. Mount,

I am concerned about about the traffic this project will add to the area. The traffic is already bad in the area. Try turning left from Monte Verde to White Rock Rd at 5:30 pm on weekdays, it's nearly impossible! This project and the new apartment project in Town Center will greatly increase the traffic in the area. What is the plan to deal with the excess traffic?

Please advise.

Thank you,

Mary Woodbeck



Aaron Mount <aaron.mount@edcgov.us>

Montano De El Dorado Phase I and II Master Plan

1 message

Cathy Drakeley <cdrakeley@sbcglobal.net>
To: aaron.mount@edcgov.us

Wed, Oct 24, 2018 at 12:46 PM

Hello

My name is Cathy Drakeley, I live at 4106 Monte Verde Drive. I am concerned regarding Montano De El Dorado Master Plan. I see in the notice sent out on Oct 1st, there are proposed retail buildings, with one that looks like it will be located right behind my house, ranging in height from 24 feet to 50 feet with some elements reaching 70 feet. Is it possible to find out exactly what the height of the buildings

would be that are planned to be directly behind my house? Also is there some kind of plan to reduce the noise retail shops usually

generate?

Regards

Cathy Drakeley



October 2, 2018

Aaron Mount
El Dorado County
2850 Fairlane Ct., Bldg.C
Placerville, CA 95667

Ref: Gas and Electric Transmission and Distribution

Dear Mr. Mount,

Thank you for submitting 20181001 plans for our review. PG&E will review the submitted plans in relationship to any existing Gas and Electric facilities within the project area. If the proposed project is adjacent/or within PG&E owned property and/or easements, we will be working with you to ensure compatible uses and activities near our facilities.

Attached you will find information and requirements as it relates to Gas facilities (Attachment 1) and Electric facilities (Attachment 2). Please review these in detail, as it is critical to ensure your safety and to protect PG&E's facilities and its existing rights.

Below is additional information for your review:

1. This plan review process does not replace the application process for PG&E gas or electric service your project may require. For these requests, please continue to work with PG&E Service Planning: https://www.pge.com/en_US/business/services/building-and-renovation/overview/overview.page.
2. If the project being submitted is part of a larger project, please include the entire scope of your project, and not just a portion of it. PG&E's facilities are to be incorporated within any CEQA document. PG&E needs to verify that the CEQA document will identify any required future PG&E services.
3. An engineering deposit may be required to review plans for a project depending on the size, scope, and location of the project and as it relates to any rearrangement or new installation of PG&E facilities.

Any proposed uses within the PG&E fee strip and/or easement, may include a California Public Utility Commission (CPUC) Section 851 filing. This requires the CPUC to render approval for a conveyance of rights for specific uses on PG&E's fee strip or easement. PG&E will advise if the necessity to incorporate a CPUC Section 851 filing is required.

This letter does not constitute PG&E's consent to use any portion of its easement for any purpose not previously conveyed. PG&E will provide a project specific response as required.

Sincerely,

Plan Review Team
Land Management



Attachment 1 – Gas Facilities

There could be gas transmission pipelines in this area which would be considered critical facilities for PG&E and a high priority subsurface installation under California law. Care must be taken to ensure safety and accessibility. So, please ensure that if PG&E approves work near gas transmission pipelines it is done in adherence with the below stipulations. Additionally, the following link provides additional information regarding legal requirements under California excavation laws: <http://usanorth811.org/wp-content/uploads/2017/05/CA-LAW-English.pdf>

1. **Standby Inspection:** A PG&E Gas Transmission Standby Inspector must be present during any demolition or construction activity that comes within 10 feet of the gas pipeline. This includes all grading, trenching, substructure depth verifications (potholes), asphalt or concrete demolition/removal, removal of trees, signs, light poles, etc. This inspection can be coordinated through the Underground Service Alert (USA) service at 811. A minimum notice of 48 hours is required. Ensure the USA markings and notifications are maintained throughout the duration of your work.
2. **Access:** At any time, PG&E may need to access, excavate, and perform work on the gas pipeline. Any construction equipment, materials, or spoils may need to be removed upon notice. Any temporary construction fencing installed within PG&E's easement would also need to be capable of being removed at any time upon notice. Any plans to cut temporary slopes exceeding a 1:4 grade within 10 feet of a gas transmission pipeline need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.
3. **Wheel Loads:** To prevent damage to the buried gas pipeline, there are weight limits that must be enforced whenever any equipment gets within 10 feet of traversing the pipe.

Ensure a list of the axle weights of all equipment being used is available for PG&E's Standby Inspector. To confirm the depth of cover, the pipeline may need to be potholed by hand in a few areas.

Due to the complex variability of tracked equipment, vibratory compaction equipment, and cranes, PG&E must evaluate those items on a case-by-case basis prior to use over the gas pipeline (provide a list of any proposed equipment of this type noting model numbers and specific attachments).

No equipment may be set up over the gas pipeline while operating. Ensure crane outriggers are at least 10 feet from the centerline of the gas pipeline. Transport trucks must not be parked over the gas pipeline while being loaded or unloaded.

4. **Grading:** PG&E requires a minimum of 36 inches of cover over gas pipelines (or existing grade if less) and a maximum of 7 feet of cover at all locations. The graded surface cannot exceed a cross slope of 1:4.
5. **Excavating:** Any digging within 2 feet of a gas pipeline must be dug by hand. Note that while the minimum clearance is only 12 inches, any excavation work within 24 inches of the edge of a pipeline must be done with hand tools. So to avoid having to dig a trench entirely with hand tools, the edge of the trench must be over 24 inches away. (Doing the math for a 24 inch wide trench being dug along a 36 inch pipeline, the centerline of the trench would need to be at least 54 inches [$24/2 + 24 + 36/2 = 54$] away, or be entirely dug by hand.)



Water jetting to assist vacuum excavating must be limited to 1000 psig and directed at a 40° angle to the pipe. All pile driving must be kept a minimum of 3 feet away.

Any plans to expose and support a PG&E gas transmission pipeline across an open excavation need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.

6. Boring/Trenchless Installations: PG&E Pipeline Services must review and approve all plans to bore across or parallel to (within 10 feet) a gas transmission pipeline. There are stringent criteria to pothole the gas transmission facility at regular intervals for all parallel bore installations.

For bore paths that cross gas transmission pipelines perpendicularly, the pipeline must be potholed a minimum of 2 feet in the horizontal direction of the bore path and a minimum of 12 inches in the vertical direction from the bottom of the pipe with minimum clearances measured from the edge of the pipe in both directions. Standby personnel must watch the locator trace (and every ream pass) the path of the bore as it approaches the pipeline and visually monitor the pothole (with the exposed transmission pipe) as the bore traverses the pipeline to ensure adequate clearance with the pipeline. The pothole width must account for the inaccuracy of the locating equipment.

7. Substructures: All utility crossings of a gas pipeline should be made as close to perpendicular as feasible ($90^\circ \pm 15^\circ$). All utility lines crossing the gas pipeline must have a minimum of 12 inches of separation from the gas pipeline. Parallel utilities, pole bases, water line 'kicker blocks', storm drain inlets, water meters, valves, back pressure devices or other utility substructures are not allowed in the PG&E gas pipeline easement.

If previously retired PG&E facilities are in conflict with proposed substructures, PG&E must verify they are safe prior to removal. This includes verification testing of the contents of the facilities, as well as environmental testing of the coating and internal surfaces. Timelines for PG&E completion of this verification will vary depending on the type and location of facilities in conflict.

8. Structures: No structures are to be built within the PG&E gas pipeline easement. This includes buildings, retaining walls, fences, decks, patios, carports, septic tanks, storage sheds, tanks, loading ramps, or any structure that could limit PG&E's ability to access its facilities.

9. Fencing: Permanent fencing is not allowed within PG&E easements except for perpendicular crossings which must include a 16 foot wide gate for vehicular access. Gates will be secured with PG&E corporation locks.

10. Landscaping: Landscaping must be designed to allow PG&E to access the pipeline for maintenance and not interfere with pipeline coatings or other cathodic protection systems. No trees, shrubs, brush, vines, and other vegetation may be planted within the easement area. Only those plants, ground covers, grasses, flowers, and low-growing plants that grow unsupported to a maximum of four feet (4') in height at maturity may be planted within the easement area.

11. Cathodic Protection: PG&E pipelines are protected from corrosion with an "Impressed Current" cathodic protection system. Any proposed facilities, such as metal conduit, pipes,



service lines, ground rods, anodes, wires, etc. that might affect the pipeline cathodic protection system must be reviewed and approved by PG&E Corrosion Engineering.

12. Pipeline Marker Signs: PG&E needs to maintain pipeline marker signs for gas transmission pipelines in order to ensure public awareness of the presence of the pipelines. With prior written approval from PG&E Pipeline Services, an existing PG&E pipeline marker sign that is in direct conflict with proposed developments may be temporarily relocated to accommodate construction work. The pipeline marker must be moved back once construction is complete.

13. PG&E is also the provider of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E's facilities must be reviewed and approved by PG&E to ensure that no impact occurs which may endanger the safe operation of its facilities.

Attachment 2 – Electric Facilities

It is PG&E's policy to permit certain uses on a case by case basis within its electric transmission fee strip(s) and/or easement(s) provided such uses and manner in which they are exercised, will not interfere with PG&E's rights or endanger its facilities. Some examples/restrictions are as follows:

1. Buildings and Other Structures: No buildings or other structures including the foot print and eave of any buildings, swimming pools, wells or similar structures will be permitted within fee strip(s) and/or easement(s) areas. PG&E's transmission easement shall be designated on subdivision/parcel maps as "**RESTRICTED USE AREA – NO BUILDING.**"
2. Grading: Cuts, trenches or excavations may not be made within 25 feet of our towers. Developers must submit grading plans and site development plans (including geotechnical reports if applicable), signed and dated, for PG&E's review. PG&E engineers must review grade changes in the vicinity of our towers. No fills will be allowed which would impair ground-to-conductor clearances. Towers shall not be left on mounds without adequate road access to base of tower or structure.
3. Fences: Walls, fences, and other structures must be installed at locations that do not affect the safe operation of PG&E's facilities. Heavy equipment access to our facilities must be maintained at all times. Metal fences are to be grounded to PG&E specifications. No wall, fence or other like structure is to be installed within 10 feet of tower footings and unrestricted access must be maintained from a tower structure to the nearest street. Walls, fences and other structures proposed along or within the fee strip(s) and/or easement(s) will require PG&E review; submit plans to PG&E Centralized Review Team for review and comment.
4. Landscaping: Vegetation may be allowed; subject to review of plans. On overhead electric transmission fee strip(s) and/or easement(s), trees and shrubs are limited to those varieties that do not exceed 15 feet in height at maturity. PG&E must have access to its facilities at all times, including access by heavy equipment. No planting is to occur within the footprint of the tower legs. Greenbelts are encouraged.
5. Reservoirs, Sumps, Drainage Basins, and Ponds: Prohibited within PG&E's fee strip(s) and/or easement(s) for electric transmission lines.
6. Automobile Parking: Short term parking of movable passenger vehicles and light trucks (pickups, vans, etc.) is allowed. The lighting within these parking areas will need to be reviewed by PG&E; approval will be on a case by case basis. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications. Blocked-up vehicles are not allowed. Carports, canopies, or awnings are not allowed.
7. Storage of Flammable, Explosive or Corrosive Materials: There shall be no storage of fuel or combustibles and no fueling of vehicles within PG&E's easement. No trash bins or incinerators are allowed.
8. Streets and Roads: Access to facilities must be maintained at all times. Street lights may be allowed in the fee strip(s) and/or easement(s) but in all cases must be reviewed by PG&E for



proper clearance. Roads and utilities should cross the transmission easement as nearly at right angles as possible. Road intersections will not be allowed within the transmission easement.

9. Pipelines: Pipelines may be allowed provided crossings are held to a minimum and to be as nearly perpendicular as possible. Pipelines within 25 feet of PG&E structures require review by PG&E. Sprinklers systems may be allowed; subject to review. Leach fields and septic tanks are not allowed. Construction plans must be submitted to PG&E for review and approval prior to the commencement of any construction.

10. Signs: Signs are not allowed except in rare cases subject to individual review by PG&E.

11. Recreation Areas: Playgrounds, parks, tennis courts, basketball courts, barbecue and light trucks (pickups, vans, etc.) may be allowed; subject to review of plans. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications.

12. Construction Activity: Since construction activity will take place near PG&E's overhead electric lines, please be advised it is the contractor's responsibility to be aware of, and observe the minimum clearances for both workers and equipment operating near high voltage electric lines set out in the High-Voltage Electrical Safety Orders of the California Division of Industrial Safety (<https://www.dir.ca.gov/Title8/sb5g2.html>), as well as any other safety regulations. Contractors shall comply with California Public Utilities Commission General Order 95 (http://www.cpuc.ca.gov/gos/GO95/go_95_startup_page.html) and all other safety rules. No construction may occur within 25 feet of PG&E's towers. All excavation activities may only commence after 811 protocols has been followed.

Contractor shall ensure the protection of PG&E's towers and poles from vehicular damage by (installing protective barriers) Plans for protection barriers must be approved by PG&E prior to construction.

13. PG&E is also the owner of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E's facilities must be reviewed and approved by PG&E to ensure that no impact occurs that may endanger the safe and reliable operation of its facilities.

October 8, 2018

2018 OCT 10 PM 1:29

RECEIVED
PLANNING DEPARTMENT

To: Aaron Mount, Senior Planner
El Dorado County, Planning and Building Department, Planning Services
2850 Fairlane Court, Building C
Placerville, CA. 95667

From: Valentine Hager
7028 Windchime Way
Roseville, CA. 95747
(916)771-3407

Re: RE-CIRCULATION OF NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE MONTANO DE EL DORADO PHASE I AND II MASTER PLAN

We received your letter dated October 1, 2018 regarding the above Montano De El Dorado Phase I and II Master Plan.

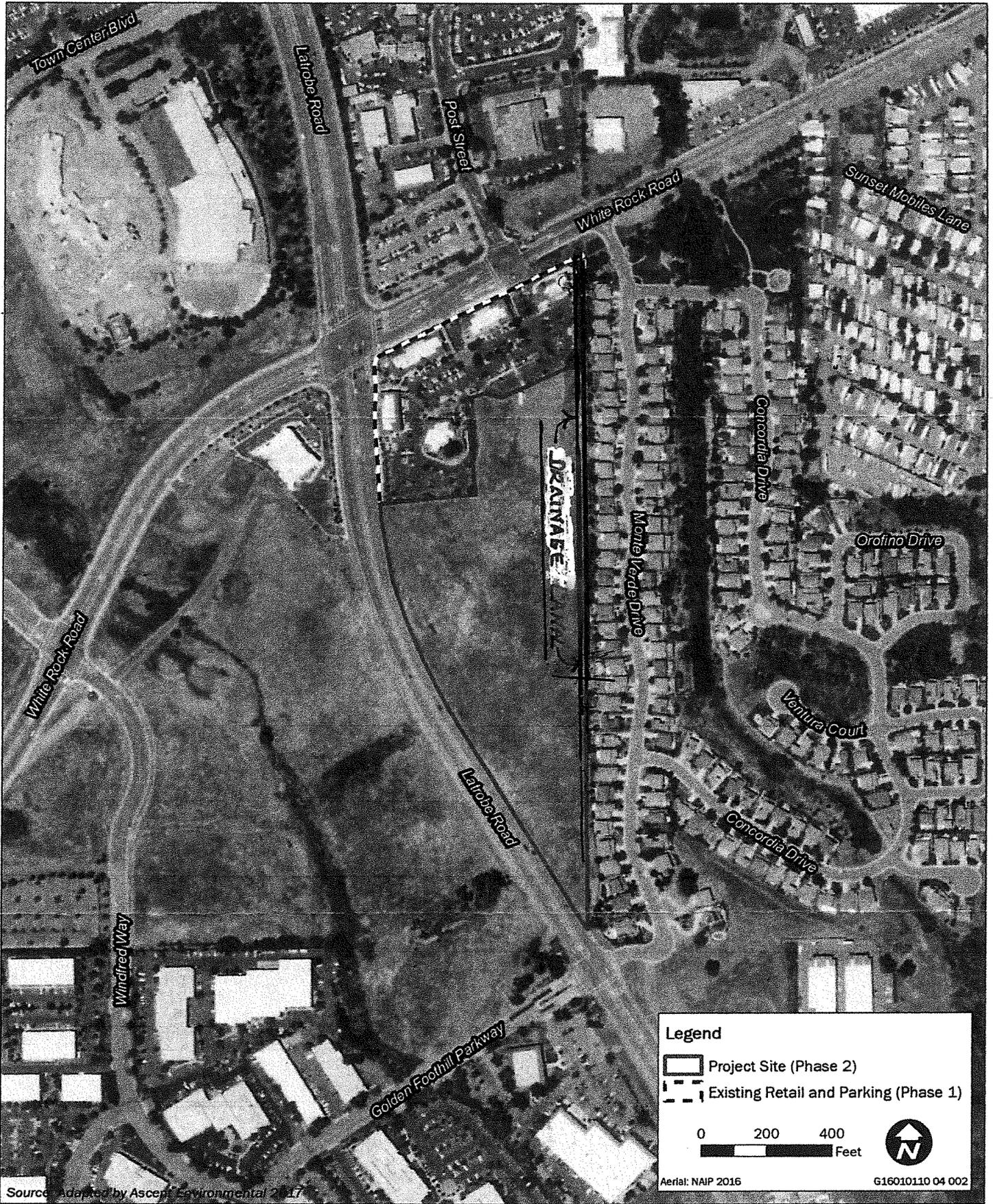
This project adversely affects all of the residents on Monte Verde Drive. These properties are directly behind the proposed changes/new development of the Shopping Center.

The new structures will impact approximately twelve homes on Monte Verde Drive. On their properties between the back wall of the SHOPPING CENTER and the owners' back yards there is a run-off drainage canal. With the proposed extension of the Shopping Center, there will be additional run-off. We are concerned the canal will not be able to handle the additional run-off.

We propose this drainage canal be totally updated as part of the proposed building to accommodate the additional run-off. This updating of the canal should be the responsibility of the owner of the Shopping Center.

Thank you very much for notifying us of the proposals for the Center expansion, so our properties on Monte Verde Drive will not be impacted adversely.

Valentine Hager



Source: Adapted by Ascent Environmental 2017

Exhibit 2

Project Site



NATIVE AMERICAN HERITAGE COMMISSION

Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710
Email: nahc@nahc.ca.gov
Website: <http://www.nahc.ca.gov>
Twitter: @CA_NAHC



2018 OCT 16 AM 10:53

RECEIVED
PLANNING DEPARTMENT

October 12, 2018

Aaron Mount
El Dorado County
2850 Fairlane Court, Building C
Placerville, CA 95667

RE: SCH#2017072027 Montano De El Dorado Phase I and II Master Plan, El Dorado County

Dear Mr. Mount:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a. A brief description of the project.
 - b. The lead agency contact information.
 - c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).
2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).
 - a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).
3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).
4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:
 - a. Type of environmental review necessary.
 - b. Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.
 - d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).
5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).
6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:
 - a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
 - a. Avoidance and preservation of the resources in place, including, but not limited to:
 - i. Planning and construction to avoid the resources and protect the cultural and natural context.
 - ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i. Protecting the cultural character and integrity of the resource.
 - ii. Protecting the traditional use of the resource.
 - iii. Protecting the confidentiality of the resource.
 - c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
 - a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

Some of SB 18's provisions include:

1. **Tribal Consultation:** If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. **No Statutory Time Limit on SB 18 Tribal Consultation.** There is no statutory time limit on SB 18 tribal consultation.
3. **Confidentiality:** Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. **Conclusion of SB 18 Tribal Consultation:** Consultation should be concluded at the point in which:
 - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
 - a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Sharaya.Souza@nahc.ca.gov.

Sincerely,



for
Sharaya Souza
Staff Services Analyst

cc: State Clearinghouse

DEPARTMENT OF TRANSPORTATION**DISTRICT 3**

703 B STREET
MARYSVILLE, CA 95901
PHONE (530) 741-4286
FAX (530) 741-4245
TTY 711
www.dot.ca.gov/dist3



*Making Conservation
a California Way of Life.*

October 31, 2018

GTS# 03-ED-2017-00116
03-ED-50 PM 0.899
SCH # 2017072027

Aaron Mount, Senior Planner
El Dorado County
2850 Fairlane Court, Building C
Placerville, CA 95667

Montano De El Dorado Phase I and II Master Plan

Dear Aaron Mount:

Thank you for including the California Department of Transportation (Caltrans) in the environmental/application review process for the project referenced above. The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. The Local Development-Intergovernmental Review (LD-IGR) Program reviews land use projects and plans through the lenses of our mission and state planning priorities of infill, conservation, and travel-efficient development. To ensure a safe and efficient transportation system, we encourage early consultation and coordination with local jurisdictions and project proponents on all development projects that utilize the multimodal transportation network.

This project consists of an existing center (phase I) comprising of approximately 39,645 square feet of commercial uses, and Phase II which proposes 74,000 square feet of retail space. Phase II has been modified to include additional retail space, an office building, a 99-room hotel, a small amphitheater, and additional parking. The existing center (phase I) is comprised of approximately 39,645 square feet of commercial uses. Phase II proposes 74,000 square feet of retail space. Existing access to the site is located at the intersection of the White Rock Road and Post Street. A secondary ingress/egress is proposed on Latrobe Road near the southern tip of the project site. The project is located approximately 23 miles east of Sacramento and 20 miles west of Placerville in El Dorado Hills, California.

System Planning

As calculated by the 9th Edition ITE Trip Generation analysis, the addition of 74,000 sq. ft. of retail space, 6,000 sq. ft. of office space, a 99-guest room hotel, and a small amphitheater will generate about 146 a.m. and 356 p.m. peak hour trips. A TIS will need to be provided to study and discuss the impacts of the additional trips. State Route (SR) 50/East Bidwell, SR 50/ El

Mr. Aaron Mount EDC
October 31, 2018
Page 2

Dorado Hills Blvd./ Latrobe Road Interchange and SR 50/ Silvia Valley Pkwy./ White Rock Road Interchange should be studied, along with their ramp intersections. The proposed Empire Ranch Interchange between Bidwell Street and Latrobe Road/Eldorado Hills Blvd. should be considered in the analysis. Discuss any mitigation plans to lower the impact of the additional trips.

Traffic Operations – Freeway

This project will have a significant impact on the SR 50/El Dorado Hills Blvd. Interchange and it's Westbound (WB) and Eastbound (EB) ramps, and the ramp intersections.

Please include the following in the TIS:

- Existing traffic condition without the project.
- Existing traffic condition with the project.
- Future cumulative traffic impact with the project on the State Highway System (Silva Valley Interchange on SR 50, further east is now complete).
- Trips generated, and trips distributed.
- The Vehicle Miles Traveled (VMT) analysis which includes VMT per capita, and the average VMT per capita for the surrounding area (Due to SB 743 implementation).
- Analysis of EB 50 and WB 50 offramps terminals to El Dorado Hills Blvd./Latrobe Road required. (These terminals operate at or near capacity during peak hours).
- Queue length analysis for the slip offramps of EB 50 to SB Latrobe, the loop offramp of EB 50 to NB El Dorado Hills Blvd. the loop offramp of WB 50 to SB/NB El Dorado Hills Blvd.
- Merge and diverge analysis for the SR 50 and El Dorado Hills Blvd. Interchange.
- Evaluation of elements of multi-modal transportation system like public transportation and bicycle paths.

Please provide our office with copies of any further actions regarding this project or future development of the property. We would appreciate the opportunity to review and comment on any changes related to this development.

Mr. Aaron Mount EDC
October 31, 2018
Page 3

If you have any question regarding these comments or require additional information, please contact Amber Moran, Intergovernmental Review Coordinator for El Dorado County, by phone (530) 634-7624 or via email to amber.moran@dot.ca.gov.

Sincerely,



KEVIN YOUNT, Branch Chief
Office of Transportation Planning
Regional Planning Branch—East



Aaron Mount <aaron.mount@edcgov.us>

Comments Letter - Montano De El Dorado Phase I and II Master Plan

1 message

Moran, Amber@DOT <Amber.Moran@dot.ca.gov>
To: "aaron.mount@edcgov.us" <aaron.mount@edcgov.us>

Wed, Oct 31, 2018 at 2:24 PM

Mr. Aaron Mount,

The Caltrans comments letter for Montano De El Dorado Phase I and II Master Plan is attached. If you have any questions please contact me.

Regards,

Amber Moran

District 3 - Transportation Planner

Regional Liaison - East

703 B Street

Marysville, CA. 95901

530-634-7624



 **Comments Letter - Montano De El Dorado Phase I and II Master Plan.pdf**
107K

El Dorado County Development Services Department
Planning Division, Placerville, CA 95667

To Whom It May Concern

I am writing as a local resident to **OBJECT** to the Montano De El Dorado Phase II Master Plan in El Dorado Hills. I am greatly concerned that the proposal, if it goes ahead, will have significant detrimental effects on the environment and the local community. As a local resident this is a matter of concern which affects me and others. I have examined the plans and I know the site well. I wish to object strongly to the expansion of the existing retail center.

We live in the community right behind the site expansion. The community has already witnessed a number of crimes just by the construction of Montano De El Dorado Phase I project. It is needless to say that Building a market place right behind a residential community makes it more dangerous for the residents living in that community. It was not far back, when on January 8, 2015, shooting at 36 handles (Irish Pub) right behind the residential community took place. In another incident, on July 25, 2016 the El Dorado County Sheriff's Office received a report of a bank robbery at the US Bank, located at 1020 White Rock Road suite E in El Dorado Hills, Ca. The suspect was apparently hiding in one of the creeks at Concordia drive and Solari court in our residential community. Now and then our community has been exposed to all these criminals and robberies due to the Montano de El Dorado shopping center at the corner of Latrobe Road and White Rock Road. I would like to ask the El Dorado County and the planning committee who will be passing this proposal- Does EL Dorado county has enough Sherrif's to deal with the increasing crime that would result from all this new market places being built? How safe are we living in an area surrounded with all these treats and to what extent can the Sherriff department be able to curve/control crime based on the man power and resources available?

Also, there are enough traffic issues already and it is hard for the residents to come out of the community on the White rock road. This shopping complex is further going to increase the traffic jams that are encountered every day and the traffic is backed up all the way up to Target. Coming out of the suicide lane makes the residents more prone to accidents which will become even worse. Often, our residential community is used as a pass through to go to other roads and vehicles are being driven at fast speed without taking into consideration that they are being cut- through a community area further exposing our kids to danger. Also, our community is often being used as parking place for cars coming to the town center event. With the expansion of Montano De El Dorado

market place all these issues are going to worsen and I guess the county is supporting this instead of trying to solve the issues of the residents.

Also, building too much around El Dorado Hills have resulted reduced view quality which would further cause economic losses for communities. When the economy goes down as we witnessed a few years back, the shops/ restaurants are left vacant and declared bankrupt by the owners and they become a housing place for homeless and results in exposure to vandalism.

If this plan is approved and any of the residents are hurt due to it, it will be the liability of the county and the investors of this plan. We will hold the county responsible for risking the lives of all the residents.

From,

The worried residents

4116 Monte Verde Drive

4124 Monte Verde Drive

4130 Monte Verde Drive

4134 Monte Verde Drive

4140 Monte Verde Drive

4148 Monte Verde Drive

4174 Monte Verde Drive

4175 Monte Verde Drive

7008 Orofino Drive

7042 Orofino Drive

7046 Orofino Drive

522 Ventura Ct.

6009 Ventura Way

6010 Ventura Way



Aaron Mount <aaron.mount@edcgov.us>

Fwd: Comments/ Concers- Montano De El Dorado Phase II

1 message

Planning Department <planning@edcgov.us>
To: Aaron Mount <aaron.mount@edcgov.us>

Wed, Oct 31, 2018 at 8:24 AM

----- Forwarded message -----

From: **Shalini Pandey** <shalini_pndy@yahoo.com>
Date: Wed, Oct 31, 2018 at 7:51 AM
Subject: Comments/ Concers- Montano De El Dorado Phase II
To: <planning@edcgov.us>

El Dorado County Development Services Department

Planning Division,
Placerville, CA 95667

I am writing as a local resident to **OBJECT** to the Montano De El Dorado Phase II Master Plan in El Dorado Hills. I am greatly concerned that the proposal, if it goes ahead, will have significant detrimental effects on the environment and the local community. As a local resident this is a matter of concern which affects me and others. I have examined the plans and I know the site well. I wish to object strongly to the expansion of the existing retail center.

We live in the community right behind the site expansion. The community has already witnessed a number of crimes just by the construction of Montano De El Dorado Phase I project. It is needless to say that Building a market place right behind a residential community makes it more dangerous for the residents living in that community. It was not far back, when on January 8, 2015, shooting at 36 handles (Irish Pub) right behind the residential community took place. In another incident, on July 25, 2016 the El Dorado County Sheriff's Office received a report of a bank robbery at the US Bank, located at 1020 White Rock Road suite E in El Dorado Hills, Ca. The suspect was apparently hiding in one of the creeks at Concordia drive and Solari court in our residential community. Now and then our community has been exposed to all these criminals and robberies due to the Montano de El Dorado shopping center at the corner of Latrobe Road and White Rock Road. I would like to ask the El Dorado County and the planning committee who will be passing this proposal- Does EL Dorado county has enough Sherrif's to deal with the increasing crime that would result from all this new market places being built? How safe are we living in an area surrounded with all these treats and to what extent can the Sherriff department be able to curve/control crime based on the man power and resources available?

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Montano De El Dorado market place all these issues are going to worsen and I guess the county is supporting this instead of trying to solve the issues of the residents.

Also, building too much around El Dorado Hills have resulted reduced view quality which would further cause economic losses for communities. When the economy goes down as we witnessed a few years back, the shops/ restaurants are left vacant and declared bankrupt by the owners and they become a housing place for homeless and results in exposure to vandalism.

If this plan is approved and any of the residents are hurt due to it, it will be the liability of the county and the investors of this plan. We will hold the county responsible for risking the lives of all the residents.

From,

The worried residents



EI Dorado County Development Services Department.docx

14K



Aaron Mount <aaron.mount@edcgov.us>

Montano De El Dorado - Phase II - Fire Comments on DEIR

1 message

Marshall Cox <mcox@edhfire.com>
To: "aaron.mount@edcgov.us" <aaron.mount@edcgov.us>

Thu, Nov 1, 2018 at 9:08 AM

Good morning Aaron,

Fire has reviewed the DEIR documents and currently has no additional comments. The project map addresses the access for fire apparatus and emergency personnel. Water Supply, hydrants, building components, etc. will be addressed later in the process. Thank you.

Respectfully,

A handwritten signature in black ink, appearing to read "Marshall Cox".

Marshall Cox

Fire Marshal

El Dorado Hills Fire Department

[1050 Wilson Blvd., El Dorado Hills, CA 95762](http://www.edhfire.com)www.edhfire.com

(916) 933-6623 ext. 1017

(916) 817-9339 cell

(916) 933-5983 fax

mcox@edhfire.com



Aaron Mount <aaron.mount@edcgov.us>

PUBLIC NOTICE - RE-CIRCULATION OF NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE MONTANO DE EL DORADO PHASE I AND II MASTER PLAN

PGE Plan Review <PGEPlanReview@pge.com>

Tue, Oct 2, 2018 at 5:57 AM

To: Planning Department <planning@edcgov.us>, "aaron.mount@edcgov.us" <aaron.mount@edcgov.us>

Dear Mr. Mount,

Thank you for submitting the 20181001 plans. The PGE Plan Review Team is currently reviewing the information provided. We will respond to you with project specific comments prior to the provided deadline. Attached is general information regarding PGE facilities for your reference.

This email and attachment does not constitute PG&E's consent to use any portion of its easement for any purpose not previously conveyed.

Thank you,

Plan Review Team

6111 Bollinger Canyon Rd., 3rd Floor

Mail Code BR1Y3A

San Ramon, CA 94583

pgeplanreview@pge.com

*****This is a notification email only. Please do not reply to this message.***

From: debra.ercolini@edcgov.us <debra.ercolini@edcgov.us> **On Behalf Of** Planning Department

Sent: Monday, October 01, 2018 4:05 PM

Subject: PUBLIC NOTICE - RE-CIRCULATION OF NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE MONTANO DE EL DORADO PHASE I AND II MASTER PLAN

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

[Quoted text hidden]

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Initial_Response_Letter_18_10_02.pdf

426K

**Aaron Mount** <aaron.mount@edcgov.us>

Montano

1 message

Robert Brannam <e68996@gmail.com>
To: aaron.mount@edcgov.us

Thu, Oct 4, 2018 at 6:14 PM

Mr. Mount,

You have done some nice design work. As a design engineer, I appreciate that. As a life long EDC resident, I reject the plan because it represents another attack on our rural lifestyle. The traffic is already getting worse with all the development long Latrobe Rd and it will get much worse with all of the development in progress on the south side of Hwy 50 across East Bidwell. How much worse do you want to make my commute down the hill? I get the fact that you are just doing your job. Try to understand my concerns as a person who grew up in Placerville when this county was quiet and traffic was never a concern.



Aaron Mount <aaron.mount@edcgov.us>

Montano De El Dorado Phase I & II

1 message

Marysam67 <marysam67@yahoo.com>

Thu, Oct 4, 2018 at 8:13 PM

To: aaron.mount@edcgov.us

Mr. Mount,

I am concerned about about the traffic this project will add to the area. The traffic is already bad in the area. Try turning left from Monte Verde to White Rock Rd at 5:30 pm on weekdays, it's nearly impossible! This project and the new apartment project in Town Center will greatly increase the traffic in the area. What is the plan to deal with the excess traffic?

Please advise.

Thank you,

Mary Woodbeck



Aaron Mount <aaron.mount@edcgov.us>

Montano De El Dorado Phase I and II Master Plan

1 message

PGE Plan Review <PGEPlanReview@pge.com>
To: "aaron.mount@edcgov.us" <aaron.mount@edcgov.us>

Wed, Oct 31, 2018 at 2:01 PM

Dear Mr. Mount,

Attached is our response to your proposed project.

Thank you,

Plan Review Team

6111 Bollinger Canyon Rd., 3rd Floor

Mail Code BR1Y3A

San Ramon, CA 94583

pgeplanreview@pge.com

****This is a notification email only. Please do not reply to this message.****

 **No_Impact_Letter_18_10_31.pdf**
396K



Aaron Mount <aaron.mount@edcgov.us>

Montano De El Dorado Phase I and II Master Plan

1 message

Cathy Drakeley <cdrakeley@sbcglobal.net>
To: aaron.mount@edcgov.us

Wed, Oct 24, 2018 at 12:46 PM

Hello

My name is Cathy Drakeley, I live at 4106 Monte Verde Drive. I am concerned regarding Montano De El Dorado Master Plan. I see in the notice sent out on Oct 1st, there are proposed retail buildings, with one that looks like it will be located right behind my house, ranging in height from 24 feet to 50 feet with some elements reaching 70 feet. Is it possible to find out exactly what the height of the buildings

would be that are planned to be directly behind my house? Also is there some kind of plan to reduce the noise retail shops usually

generate?

Regards

Cathy Drakeley



Aaron Mount <aaron.mount@edcgov.us>

Montano De Eldorado Master Plan

1 message

Minalush Allen <animales00@yahoo.com>
To: "aaron.mount@edcgov.us" <aaron.mount@edcgov.us>

Wed, Oct 31, 2018 at 4:38 PM

Aaron, please use this document as my comments. Traci

 **Montano De Eldorado Master Plan Phases 2 & 3.docx**
22K



Aaron Mount <aaron.mount@edcgov.us>

Montano De Eldorado Master Plan Phase I & II

1 message

Minalush Allen <animales00@yahoo.com>
To: "aaron.mount@edcgov.us" <aaron.mount@edcgov.us>

Wed, Oct 31, 2018 at 4:34 PM

Aaron,

Attached are my comments for the proposed Montano De El Dorado Phase I & Phase II Master Plan.

Traci Allen
4069 Monte Verde Dr., EDH
801-505-3738

 **Montano De Eldorado Master Plan Phases 2 & 3.docx**
22K



October 2, 2018

Aaron Mount
El Dorado County
2850 Fairlane Ct., Bldg.C
Placerville, CA 95667

Ref: Gas and Electric Transmission and Distribution

Dear Mr. Mount,

Thank you for submitting 20181001 plans for our review. PG&E will review the submitted plans in relationship to any existing Gas and Electric facilities within the project area. If the proposed project is adjacent/or within PG&E owned property and/or easements, we will be working with you to ensure compatible uses and activities near our facilities.

Attached you will find information and requirements as it relates to Gas facilities (Attachment 1) and Electric facilities (Attachment 2). Please review these in detail, as it is critical to ensure your safety and to protect PG&E's facilities and its existing rights.

Below is additional information for your review:

1. This plan review process does not replace the application process for PG&E gas or electric service your project may require. For these requests, please continue to work with PG&E Service Planning: https://www.pge.com/en_US/business/services/building-and-renovation/overview/overview.page.
2. If the project being submitted is part of a larger project, please include the entire scope of your project, and not just a portion of it. PG&E's facilities are to be incorporated within any CEQA document. PG&E needs to verify that the CEQA document will identify any required future PG&E services.
3. An engineering deposit may be required to review plans for a project depending on the size, scope, and location of the project and as it relates to any rearrangement or new installation of PG&E facilities.

Any proposed uses within the PG&E fee strip and/or easement, may include a California Public Utility Commission (CPUC) Section 851 filing. This requires the CPUC to render approval for a conveyance of rights for specific uses on PG&E's fee strip or easement. PG&E will advise if the necessity to incorporate a CPUC Section 851 filing is required.

This letter does not constitute PG&E's consent to use any portion of its easement for any purpose not previously conveyed. PG&E will provide a project specific response as required.

Sincerely,

Plan Review Team
Land Management



Attachment 1 – Gas Facilities

There could be gas transmission pipelines in this area which would be considered critical facilities for PG&E and a high priority subsurface installation under California law. Care must be taken to ensure safety and accessibility. So, please ensure that if PG&E approves work near gas transmission pipelines it is done in adherence with the below stipulations. Additionally, the following link provides additional information regarding legal requirements under California excavation laws: <http://usanorth811.org/wp-content/uploads/2017/05/CA-LAW-English.pdf>

1. **Standby Inspection:** A PG&E Gas Transmission Standby Inspector must be present during any demolition or construction activity that comes within 10 feet of the gas pipeline. This includes all grading, trenching, substructure depth verifications (potholes), asphalt or concrete demolition/removal, removal of trees, signs, light poles, etc. This inspection can be coordinated through the Underground Service Alert (USA) service at 811. A minimum notice of 48 hours is required. Ensure the USA markings and notifications are maintained throughout the duration of your work.
2. **Access:** At any time, PG&E may need to access, excavate, and perform work on the gas pipeline. Any construction equipment, materials, or spoils may need to be removed upon notice. Any temporary construction fencing installed within PG&E's easement would also need to be capable of being removed at any time upon notice. Any plans to cut temporary slopes exceeding a 1:4 grade within 10 feet of a gas transmission pipeline need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.
3. **Wheel Loads:** To prevent damage to the buried gas pipeline, there are weight limits that must be enforced whenever any equipment gets within 10 feet of traversing the pipe.

Ensure a list of the axle weights of all equipment being used is available for PG&E's Standby Inspector. To confirm the depth of cover, the pipeline may need to be potholed by hand in a few areas.

Due to the complex variability of tracked equipment, vibratory compaction equipment, and cranes, PG&E must evaluate those items on a case-by-case basis prior to use over the gas pipeline (provide a list of any proposed equipment of this type noting model numbers and specific attachments).

No equipment may be set up over the gas pipeline while operating. Ensure crane outriggers are at least 10 feet from the centerline of the gas pipeline. Transport trucks must not be parked over the gas pipeline while being loaded or unloaded.

4. **Grading:** PG&E requires a minimum of 36 inches of cover over gas pipelines (or existing grade if less) and a maximum of 7 feet of cover at all locations. The graded surface cannot exceed a cross slope of 1:4.
5. **Excavating:** Any digging within 2 feet of a gas pipeline must be dug by hand. Note that while the minimum clearance is only 12 inches, any excavation work within 24 inches of the edge of a pipeline must be done with hand tools. So to avoid having to dig a trench entirely with hand tools, the edge of the trench must be over 24 inches away. (Doing the math for a 24 inch wide trench being dug along a 36 inch pipeline, the centerline of the trench would need to be at least 54 inches [$24/2 + 24 + 36/2 = 54$] away, or be entirely dug by hand.)



Water jetting to assist vacuum excavating must be limited to 1000 psig and directed at a 40° angle to the pipe. All pile driving must be kept a minimum of 3 feet away.

Any plans to expose and support a PG&E gas transmission pipeline across an open excavation need to be approved by PG&E Pipeline Services in writing PRIOR to performing the work.

6. Boring/Trenchless Installations: PG&E Pipeline Services must review and approve all plans to bore across or parallel to (within 10 feet) a gas transmission pipeline. There are stringent criteria to pothole the gas transmission facility at regular intervals for all parallel bore installations.

For bore paths that cross gas transmission pipelines perpendicularly, the pipeline must be potholed a minimum of 2 feet in the horizontal direction of the bore path and a minimum of 12 inches in the vertical direction from the bottom of the pipe with minimum clearances measured from the edge of the pipe in both directions. Standby personnel must watch the locator trace (and every ream pass) the path of the bore as it approaches the pipeline and visually monitor the pothole (with the exposed transmission pipe) as the bore traverses the pipeline to ensure adequate clearance with the pipeline. The pothole width must account for the inaccuracy of the locating equipment.

7. Substructures: All utility crossings of a gas pipeline should be made as close to perpendicular as feasible (90° +/- 15°). All utility lines crossing the gas pipeline must have a minimum of 12 inches of separation from the gas pipeline. Parallel utilities, pole bases, water line 'kicker blocks', storm drain inlets, water meters, valves, back pressure devices or other utility substructures are not allowed in the PG&E gas pipeline easement.

If previously retired PG&E facilities are in conflict with proposed substructures, PG&E must verify they are safe prior to removal. This includes verification testing of the contents of the facilities, as well as environmental testing of the coating and internal surfaces. Timelines for PG&E completion of this verification will vary depending on the type and location of facilities in conflict.

8. Structures: No structures are to be built within the PG&E gas pipeline easement. This includes buildings, retaining walls, fences, decks, patios, carports, septic tanks, storage sheds, tanks, loading ramps, or any structure that could limit PG&E's ability to access its facilities.

9. Fencing: Permanent fencing is not allowed within PG&E easements except for perpendicular crossings which must include a 16 foot wide gate for vehicular access. Gates will be secured with PG&E corporation locks.

10. Landscaping: Landscaping must be designed to allow PG&E to access the pipeline for maintenance and not interfere with pipeline coatings or other cathodic protection systems. No trees, shrubs, brush, vines, and other vegetation may be planted within the easement area. Only those plants, ground covers, grasses, flowers, and low-growing plants that grow unsupported to a maximum of four feet (4') in height at maturity may be planted within the easement area.

11. Cathodic Protection: PG&E pipelines are protected from corrosion with an "Impressed Current" cathodic protection system. Any proposed facilities, such as metal conduit, pipes,



service lines, ground rods, anodes, wires, etc. that might affect the pipeline cathodic protection system must be reviewed and approved by PG&E Corrosion Engineering.

12. Pipeline Marker Signs: PG&E needs to maintain pipeline marker signs for gas transmission pipelines in order to ensure public awareness of the presence of the pipelines. With prior written approval from PG&E Pipeline Services, an existing PG&E pipeline marker sign that is in direct conflict with proposed developments may be temporarily relocated to accommodate construction work. The pipeline marker must be moved back once construction is complete.

13. PG&E is also the provider of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E's facilities must be reviewed and approved by PG&E to ensure that no impact occurs which may endanger the safe operation of its facilities.

Attachment 2 – Electric Facilities

It is PG&E's policy to permit certain uses on a case by case basis within its electric transmission fee strip(s) and/or easement(s) provided such uses and manner in which they are exercised, will not interfere with PG&E's rights or endanger its facilities. Some examples/restrictions are as follows:

1. Buildings and Other Structures: No buildings or other structures including the foot print and eave of any buildings, swimming pools, wells or similar structures will be permitted within fee strip(s) and/or easement(s) areas. PG&E's transmission easement shall be designated on subdivision/parcel maps as "**RESTRICTED USE AREA – NO BUILDING.**"
2. Grading: Cuts, trenches or excavations may not be made within 25 feet of our towers. Developers must submit grading plans and site development plans (including geotechnical reports if applicable), signed and dated, for PG&E's review. PG&E engineers must review grade changes in the vicinity of our towers. No fills will be allowed which would impair ground-to-conductor clearances. Towers shall not be left on mounds without adequate road access to base of tower or structure.
3. Fences: Walls, fences, and other structures must be installed at locations that do not affect the safe operation of PG&E's facilities. Heavy equipment access to our facilities must be maintained at all times. Metal fences are to be grounded to PG&E specifications. No wall, fence or other like structure is to be installed within 10 feet of tower footings and unrestricted access must be maintained from a tower structure to the nearest street. Walls, fences and other structures proposed along or within the fee strip(s) and/or easement(s) will require PG&E review; submit plans to PG&E Centralized Review Team for review and comment.
4. Landscaping: Vegetation may be allowed; subject to review of plans. On overhead electric transmission fee strip(s) and/or easement(s), trees and shrubs are limited to those varieties that do not exceed 15 feet in height at maturity. PG&E must have access to its facilities at all times, including access by heavy equipment. No planting is to occur within the footprint of the tower legs. Greenbelts are encouraged.
5. Reservoirs, Sumps, Drainage Basins, and Ponds: Prohibited within PG&E's fee strip(s) and/or easement(s) for electric transmission lines.
6. Automobile Parking: Short term parking of movable passenger vehicles and light trucks (pickups, vans, etc.) is allowed. The lighting within these parking areas will need to be reviewed by PG&E; approval will be on a case by case basis. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications. Blocked-up vehicles are not allowed. Carports, canopies, or awnings are not allowed.
7. Storage of Flammable, Explosive or Corrosive Materials: There shall be no storage of fuel or combustibles and no fueling of vehicles within PG&E's easement. No trash bins or incinerators are allowed.
8. Streets and Roads: Access to facilities must be maintained at all times. Street lights may be allowed in the fee strip(s) and/or easement(s) but in all cases must be reviewed by PG&E for



proper clearance. Roads and utilities should cross the transmission easement as nearly at right angles as possible. Road intersections will not be allowed within the transmission easement.

9. Pipelines: Pipelines may be allowed provided crossings are held to a minimum and to be as nearly perpendicular as possible. Pipelines within 25 feet of PG&E structures require review by PG&E. Sprinklers systems may be allowed; subject to review. Leach fields and septic tanks are not allowed. Construction plans must be submitted to PG&E for review and approval prior to the commencement of any construction.

10. Signs: Signs are not allowed except in rare cases subject to individual review by PG&E.

11. Recreation Areas: Playgrounds, parks, tennis courts, basketball courts, barbecue and light trucks (pickups, vans, etc.) may be allowed; subject to review of plans. Heavy equipment access to PG&E facilities is to be maintained at all times. Parking is to clear PG&E structures by at least 10 feet. Protection of PG&E facilities from vehicular traffic is to be provided at developer's expense AND to PG&E specifications.

12. Construction Activity: Since construction activity will take place near PG&E's overhead electric lines, please be advised it is the contractor's responsibility to be aware of, and observe the minimum clearances for both workers and equipment operating near high voltage electric lines set out in the High-Voltage Electrical Safety Orders of the California Division of Industrial Safety (<https://www.dir.ca.gov/Title8/sb5g2.html>), as well as any other safety regulations. Contractors shall comply with California Public Utilities Commission General Order 95 (http://www.cpuc.ca.gov/gos/GO95/go_95_startup_page.html) and all other safety rules. No construction may occur within 25 feet of PG&E's towers. All excavation activities may only commence after 811 protocols has been followed.

Contractor shall ensure the protection of PG&E's towers and poles from vehicular damage by (installing protective barriers) Plans for protection barriers must be approved by PG&E prior to construction.

13. PG&E is also the owner of distribution facilities throughout many of the areas within the state of California. Therefore, any plans that impact PG&E's facilities must be reviewed and approved by PG&E to ensure that no impact occurs that may endanger the safe and reliable operation of its facilities.

October 8, 2018

2018 OCT 10 PM 1:29

RECEIVED
PLANNING DEPARTMENT

To: Aaron Mount, Senior Planner
El Dorado County, Planning and Building Department, Planning Services
2850 Fairlane Court, Building C
Placerville, CA. 95667

From: Valentine Hager
7028 Windchime Way
Roseville, CA. 95747
(916)771-3407

Re: RE-CIRCULATION OF NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT
REPORT FOR THE MONTANO DE EL DORADO PHASE I AND II MASTER PLAN

We received your letter dated October 1, 2018 regarding the above Montano De El Dorado Phase I and II Master Plan.

This project adversely affects all of the residents on Monte Verde Drive. These properties are directly behind the proposed changes/new development of the Shopping Center.

The new structures will impact approximately twelve homes on Monte Verde Drive. On their properties between the back wall of the SHOPPING CENTER and the owners' back yards there is a run-off drainage canal. With the proposed extension of the Shopping Center, there will be additional run-off. We are concerned the canal will not be able to handle the additional run-off.

We propose this drainage canal be totally updated as part of the proposed building to accommodate the additional run-off. This updating of the canal should be the responsibility of the owner of the Shopping Center.

Thank you very much for notifying us of the proposals for the Center expansion, so our properties on Monte Verde Drive will not be impacted adversely.

Valentine Hager

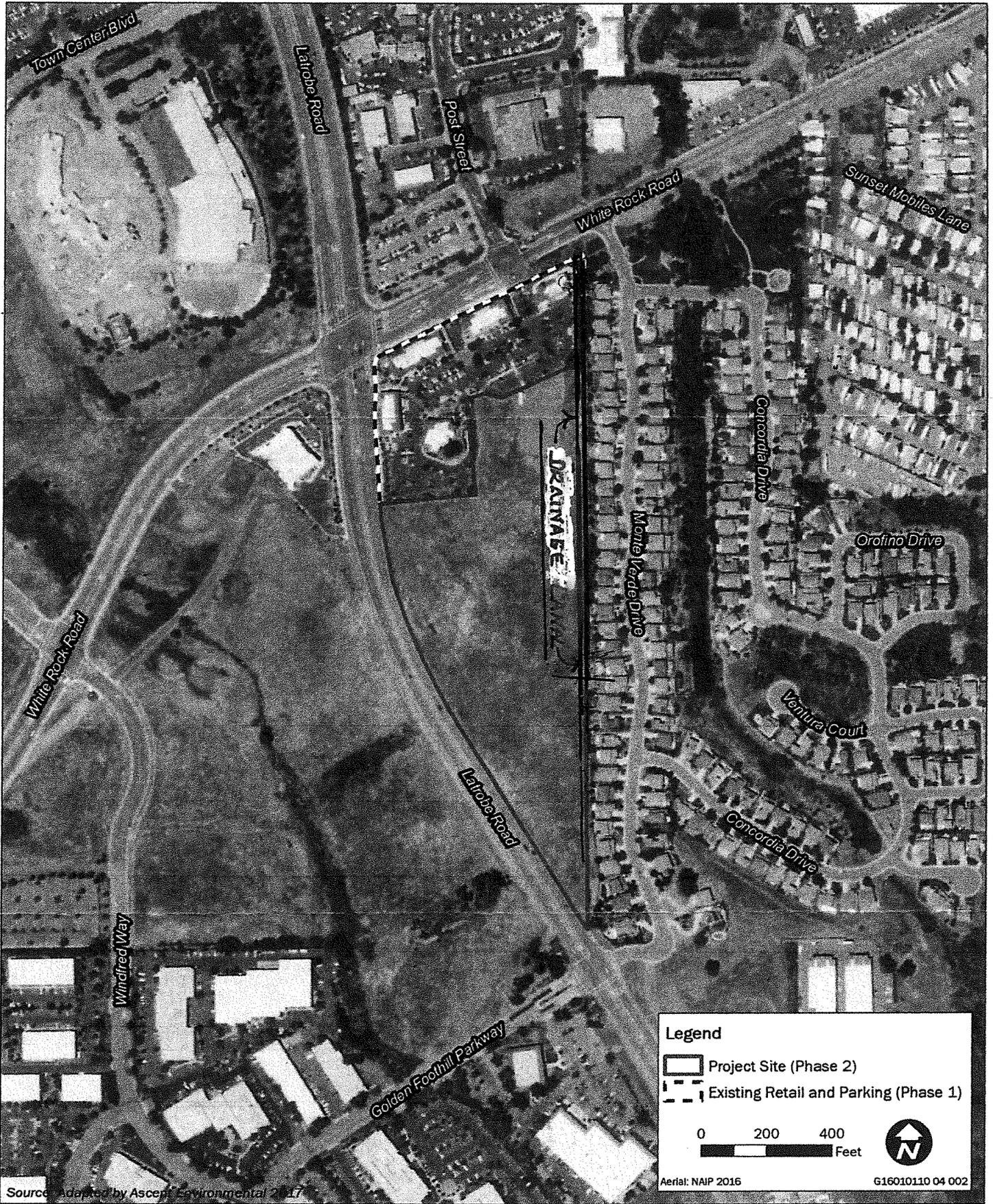


Exhibit 2

Project Site



NATIVE AMERICAN HERITAGE COMMISSION

Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710
Email: nahc@nahc.ca.gov
Website: <http://www.nahc.ca.gov>
Twitter: @CA_NAHC



2018 OCT 16 AM 10:53

RECEIVED
PLANNING DEPARTMENT

October 12, 2018

Aaron Mount
El Dorado County
2850 Fairlane Court, Building C
Placerville, CA 95667

RE: SCH#2017072027 Montano De El Dorado Phase I and II Master Plan, El Dorado County

Dear Mr. Mount:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:
 - a. A brief description of the project.
 - b. The lead agency contact information.
 - c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
 - d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).
2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).
 - a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).
3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:
 - a. Alternatives to the project.
 - b. Recommended mitigation measures.
 - c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).
4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:
 - a. Type of environmental review necessary.
 - b. Significance of the tribal cultural resources.
 - c. Significance of the project's impacts on tribal cultural resources.
 - d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).
5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).
6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:
 - a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
 - b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:
 - a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
 - b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:
 - a. Avoidance and preservation of the resources in place, including, but not limited to:
 - i. Planning and construction to avoid the resources and protect the cultural and natural context.
 - ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
 - b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
 - i. Protecting the cultural character and integrity of the resource.
 - ii. Protecting the traditional use of the resource.
 - iii. Protecting the confidentiality of the resource.
 - c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
 - d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).
 - e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).
 - f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:
 - a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.
 - b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
 - c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf

Some of SB 18's provisions include:

1. **Tribal Consultation:** If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. **No Statutory Time Limit on SB 18 Tribal Consultation.** There is no statutory time limit on SB 18 tribal consultation.
3. **Confidentiality:** Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. **Conclusion of SB 18 Tribal Consultation:** Consultation should be concluded at the point in which:
 - a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
 - b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (http://ohp.parks.ca.gov/?page_id=1068) for an archaeological records search. The records search will determine:
 - a. If part or all of the APE has been previously surveyed for cultural resources.
 - b. If any known cultural resources have already been recorded on or adjacent to the APE.
 - c. If the probability is low, moderate, or high that cultural resources are located in the APE.
 - d. If a survey is required to determine whether previously unrecorded cultural resources are present.
2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
 - a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
 - b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
 - a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
 - b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
 - a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
 - b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
 - c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Sharaya.Souza@nahc.ca.gov.

Sincerely,



for
Sharaya Souza
Staff Services Analyst

cc: State Clearinghouse



October 31, 2018

Aaron Mount
El Dorado County
2850 Fairlane Court
Placerville, CA 95667

Re: Montano De El Dorado Phase I and II Master Plan

Dear Mr. Mount,

Thank you for giving us the opportunity to review the subject plans. The proposed Montano De El Dorado Phase I and II Master Plan dated 10/1/2018 does not appear to interfere with any existing PG&E facilities or easement rights; therefore, we have no comments at this time.

Please note that this is our preliminary review and PG&E reserves the right for future review as needed. This letter shall not in any way alter, modify, or terminate any provision of any existing easement rights. If there are subsequent modifications made to your design, we ask that you resubmit the plans to the email address listed below.

In the event that you require PG&E's gas or electrical service in the future, please continue to work with PG&E's Service Planning department: <https://www.pge.com/cco/>.

If you have any questions regarding our response, please contact the PG&E Plan Review Team at (877) 259-8314 or pgeplanreview@pge.com.

Sincerely,

PG&E Plan Review Team
Land Management

Thank you for allowing me comment on the Montano De Eldorado Master Plan Phase I and II. I appreciate being informed of developments.

Noise and Vibration

I am concerned that noise levels during construction and use of all infrastructures (especially from the amphitheater and parking lots) will exceed ambient noise levels. Cumulative effects needs to be addressed in how this proposed development will add incremental noise to current levels of noise from Highway 50, noise from Town Center and Town Center events, noise from traffic along LaTrobe and White Rock Road.

Aesthetics

I am concerned how light pollution will exponentially increase from existing conditions. El Dorado Hills has ordinances for “night sky friendly” light pollution. The current development has significant light pollution that can be seen a relatively long distance away. This project would exponentially increase light pollution, which goes against the ethos of living in El Dorado Hills and will set a lasting precedent for other developers to take advantage of going forward.

As a resident of Creekside Greens, I am deeply concerned that the proposed project will destroy the view shed for residents in our neighborhood. The proposed setback from homes in the subdivision, along Monte Verde Drive appears to be 50 feet, the least distance required.

Geology, Soils

The hillside on the eastside of the proposed development is steep and when development occurs, will dust pollution and soil erosion will affect home owners.

Traffic and Circulation

Adding a 100-room hotel, amphitheater, and office building will significantly increase traffic on the Post Street/White Rock Road considering the existing traffic. Existing infrastructure including residential, services and retail off of White Rock Road is in close proximity to the development. Currently there is a 4-way intersection at LaTrobe and White Rock Road. East of Rock Road within a few 100 meters are turning lanes into Town Center, Montano De El Dorado retail center (Post Road), Crest Leigh neighborhood (Creekside Greens), and Sherman Williams making it extremely difficult to turn west on to White Rock Road, which is a public safety concern. During the morning and evening commutes, White Rock Road is backed up from the intersection of LaTrobe and White Rock Road to the Highway 50 ramp going east, increasing commuter times.

The developer must consider the cumulative effects of adding a major development to the existing current traffic and intersections.

In progress and future development

- Sherwin Williams paint store, which has commercial lumber vehicles going in and out during the day.
- Retail center with businesses and restaurants
- Creekside Greens (Crest Leigh) residential neighborhood
- Trailer park residential neighborhood
- Amphitheater will significantly increase traffic onto Post Road and Latrobe road. The developers failed to disclose what the expected and maximum attendance will be when used.

Sec. 130.40.170 - Lodging Facilities

130.23.030 - Development Standards. (Table 130.23.030) – The proposed hotel including architectural elements will exceed the current limit of 50' height as the proposed hotel will be 52' height. The proposed retail buildings will reach a total height of 70', an additional 20' over the 50' allowable by development standards.

The proposed hotel will have a parking lot. If the 99-room is at maximum occupancy, how many parking spaces will the garage have? Will there be enough spaces to accommodate maximum occupancy?

B. 6. Lodging facilities shall provide off-street parking at a ratio of one space per each guest room, plus two spaces required for the primary dwelling.

The zoning regulations require one parking spot for each hotel room. The hotel will need 99 parking spaces. If they cannot accommodate this, they will be in violation. This will not only contribute to increased traffic but may cause vehicles to park in illegal places or in Creekside Greens.

Population and Housing

Adding substantial developments into 20-acres will cause significant impacts to residents of Creekside Greens.

Biological Resources

The western pond turtle (*Actinemys marmorata*) is the only remaining fresh water turtle species in California. The proposed project is in undeveloped land and suitable for turtle nesting as female pond turtles may climb hillsides, sometimes moving considerable distances to find suitable nest sites. Western pond turtles occupy the Carson Creek watershed and surrounding ponds. As a wildlife biologist, I have observed these turtles in Creekside Greens (few hundred feet away) and along a Carson Creek and LaTrobe crossing within a half a mile of the new development.

My concern is that the hillside may be breeding habitat for these turtles because of the proximity of Carson Creek to the east side of the development.

The USFWS is currently conducting a 12-month assessment to make a determination to list the western pond turtle and designate critical habitat under the Endangered Species Act. Western pond turtle is a California species of concern <https://www.wildlife.ca.gov/Conservation/SSC/Amphibians-Reptiles>.

California is also considering this species as a California endangered and threatened species under the California Fish & Game Commission.

I am not sure if this is an allowable consideration but I am concerned that the developer does not have secure funding to complete this project. As a recession is in the near future, I would have to see an incomplete development in my community as it will drive down home prices and further contribute to a slowing economy.

Thank you for allowing me comment on the Montano De Eldorado Master Plan Phase I and II. I appreciate being informed of developments.

Noise and Vibration

I am concerned that noise levels during construction and use of all infrastructures (especially from the amphitheater and parking lots) will exceed ambient noise levels. Cumulative effects needs to be addressed in how this proposed development will add incremental noise to current levels of noise from Highway 50, noise from Town Center and Town Center events, noise from traffic along LaTrobe and White Rock Road.

Aesthetics

I am concerned how light pollution will exponentially increase from existing conditions. El Dorado Hills has ordinances for “night sky friendly” light pollution. The current development has significant light pollution that can be seen a relatively long distance away. This project would exponentially increase light pollution, which goes against the ethos of living in El Dorado Hills and will set a lasting precedent for other developers to take advantage of going forward.

As a resident of Creekside Greens, I am deeply concerned that the proposed project will destroy the view shed for residents in our neighborhood. The proposed setback from homes in the subdivision, along Monte Verde Drive appears to be 50 feet, the least distance required.

Geology, Soils

The hillside on the eastside of the proposed development is steep and when development occurs, will dust pollution and soil erosion will affect home owners.

130.23.030 - Development Standards. (Table 130.23.030) – The proposed hotel including architectural elements will exceed the current limit of 50’ height as the proposed hotel will be 52’ height. The proposed retail buildings will reach a total height of 70’, an additional 20’ over the 50’ allowable by development standards.

Traffic and Circulation

Adding a 100-room hotel, amphitheater, and office building will significantly increase traffic on the Post Street/White Rock Road considering the existing traffic. Existing infrastructure including residential, services and retail off of White Rock Road is in close proximity to the development. Currently there is a 4-way intersection at LaTrobe and White Rock Road. East of Rock Road within a few 100 meters are turning lanes into Town Center, Montano De El Dorado retail center (Post Road), Crest Leigh neighborhood (Creekside Greens), and Sherman Williams making it extremely difficult to turn west on to White Rock Road, which is a public safety concern. During the morning and evening commutes, White Rock Road is backed up from the intersection of LaTrobe and White Rock Road to the Highway 50 ramp going east, increasing commuter times.

The developer must consider the cumulative effects of adding a major development to the existing current traffic and intersections.

In progress and future development

- Sherwin Williams paint store, which has commercial lumber vehicles going in and out during the day.
- Retail center with businesses and restaurants
- Creekside Greens (Crest Leigh) residential neighborhood
- Trailer park residential neighborhood
- Amphitheater will significantly increase traffic onto Post Road and Latrobe road. The developers failed to disclose what the expected and maximum attendance will be when used.

Sec. 130.40.170 - Lodging Facilities.

The proposed hotel will have a parking lot. If the 99-room is at maximum occupancy, how many parking spaces will the garage have? Will there be enough spaces to accommodate maximum occupancy?

B. 6. Lodging facilities shall provide off-street parking at a ratio of one space per each guest room, plus two spaces required for the primary dwelling.

The zoning regulations require one parking spot for each hotel room. The hotel will need 99 parking spaces. If they cannot accommodate this, they will be in violation. This will not only contribute to increased traffic but may cause vehicles to park in illegal places or in Creekside Greens.

Population and Housing

Adding substantial developments into 20-acres will cause significant impacts to residents of Creekside Greens.

Biological Resources

The western pond turtle (*Actinemys marmorata*) is the only remaining fresh water turtle species in California. The proposed project is in undeveloped land and suitable for turtle nesting as female pond turtles may climb hillsides, sometimes moving considerable distances to find suitable nest sites. Western pond turtles occupy the Carson Creek watershed and surrounding ponds. As a wildlife biologist, I have observed these turtles in Creekside Greens (few hundred feet away) and along a Carson Creek and LaTrobe crossing within a half a mile of the new development.

My concern is that the hillside may be breeding habitat for these turtles because of the proximity of Carson Creek to the east side of the development.

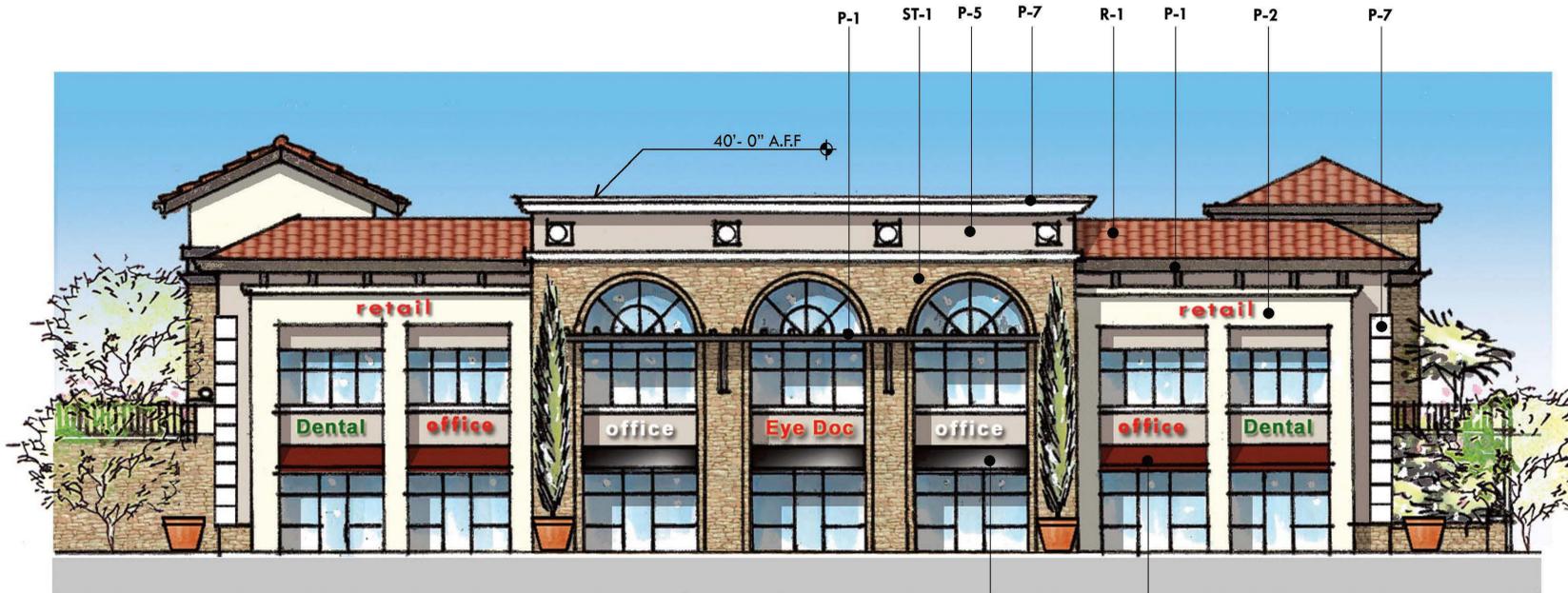
The USFWS is currently conducting a 12-month assessment to make a determination to list the western pond turtle and designate critical habitat under the Endangered Species Act. Western pond turtle is a California species of concern <https://www.wildlife.ca.gov/Conservation/SSC/Amphibians-Reptiles>. California is also considering this species as a California endangered and threatened species under the California Fish & Game Commission.

Comments from Traci Allen, 10/31/2018
4069 Monte Verde Dr. EDH 95762

I am not sure if this is an allowable consideration but I am concerned that the developer does not have secure funding to complete this project. As a recession is in the near future, I would have to see an incomplete development in my community as it will drive down home prices and further contribute to a slowing economy.

Appendix B

Architectural Renderings



South Elevation



West Elevation



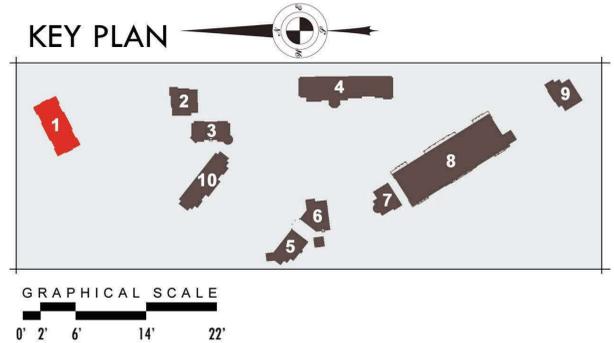
North Elevation

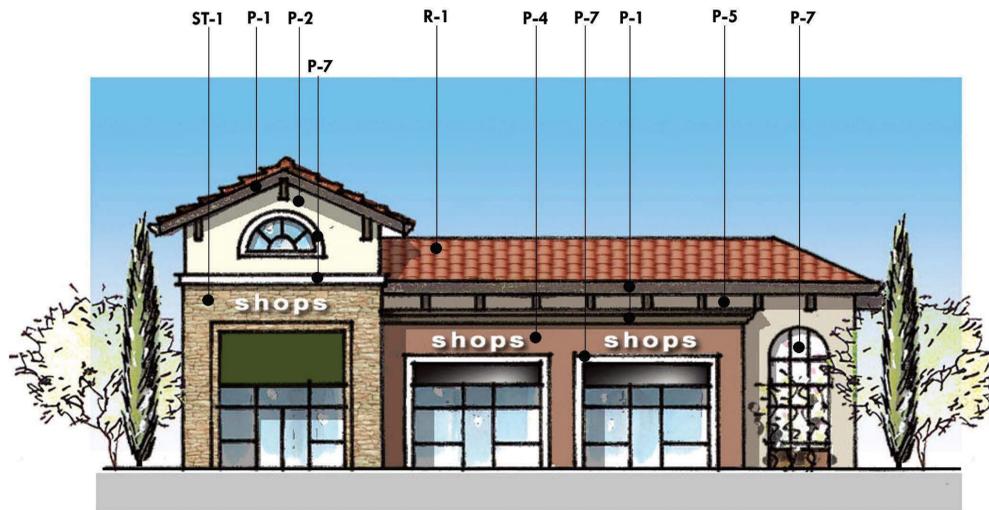


East Elevation

EXTERIOR MATERIALS & FINISHES

P-1	DUNN EDWARDS #6049	"CHAPS"	(PAINT)	S-1	EL DORADO STONE - PONDEROSA CLIFFSTONE	(STONE MASONRY)
P-2	DUNN EDWARDS #5322	"PALE PEARL"	(PAINT)	R-1	REDLAND CLAY TILE CO. - BAJA MISSION TILE	(ROOF TILE)
P-3	DUNN EDWARDS #5359	"CROSSROADS"	(PAINT)	FA-1	SUNBRELLA COLOR #8631 "BURGANDY"	(FABRIC AWNING)
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P-6	DUNN EDWARDS #6350	"DARK ENGINE"	(PAINT)	FA-4	SUNBRELLA COLOR #8621 "TRUE BROWN"	(FABRIC AWNING)
P-7	SHERWIN WILLIAMS #7100	"ARCADE WHITE"	(PAINT)			





North Elevation



East Elevation



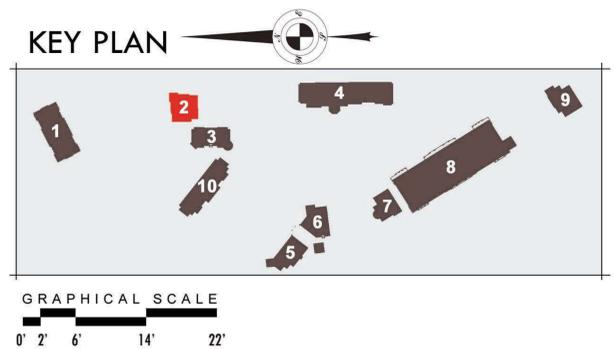
South Elevation



West Elevation

EXTERIOR MATERIALS & FINISHES

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P-7	SHERWIN WILLIAMS #7100	"ARCADE WHITE"	(PAINT)			





West Elevation



South Elevation



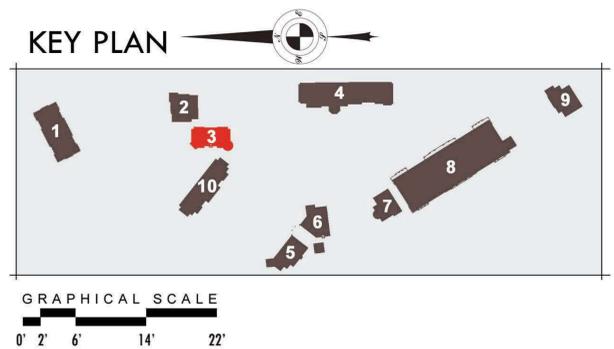
East Elevation



North Elevation

EXTERIOR MATERIALS & FINISHES

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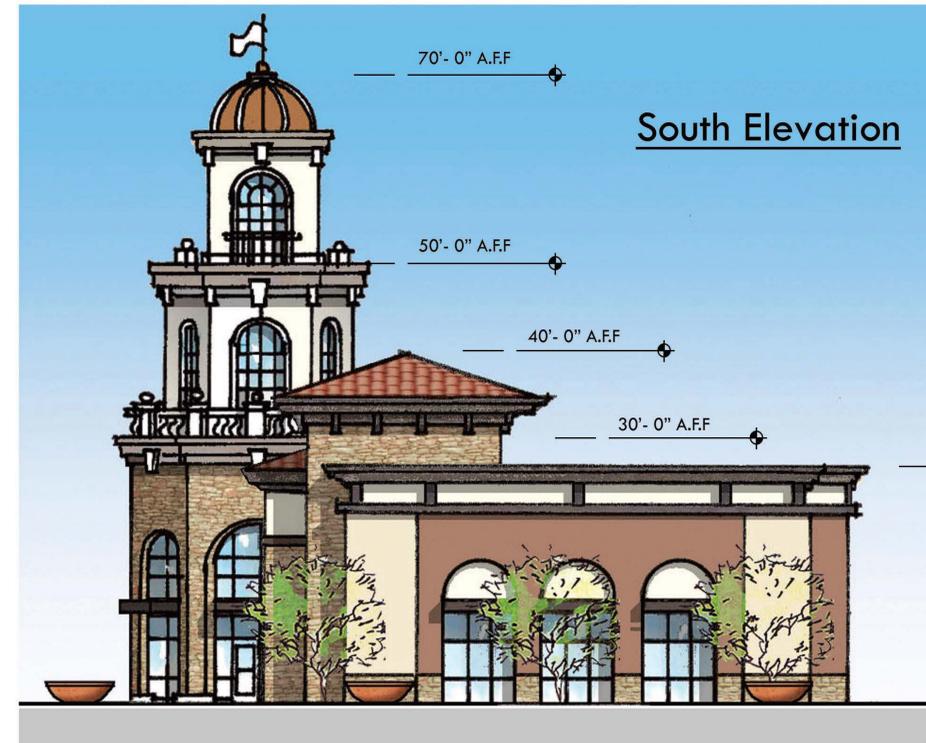




West Elevation



North Elevation

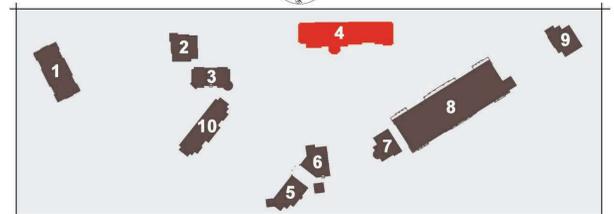


South Elevation

EXTERIOR MATERIALS & FINISHES

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P-7	SHERWIN WILLIAMS #7100	"ARCADE WHITE"	(PAINT)			

KEY PLAN

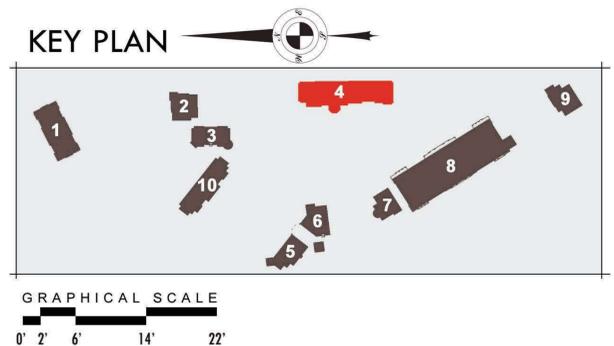


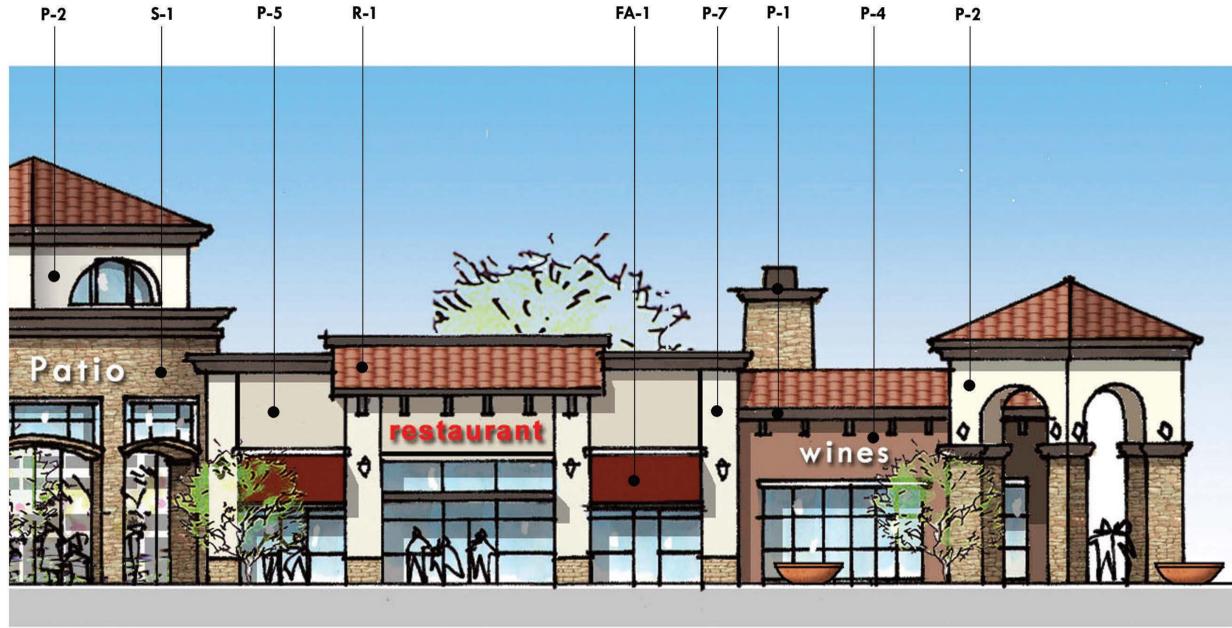


East Elevation (Rear)

EXTERIOR MATERIALS & FINISHES

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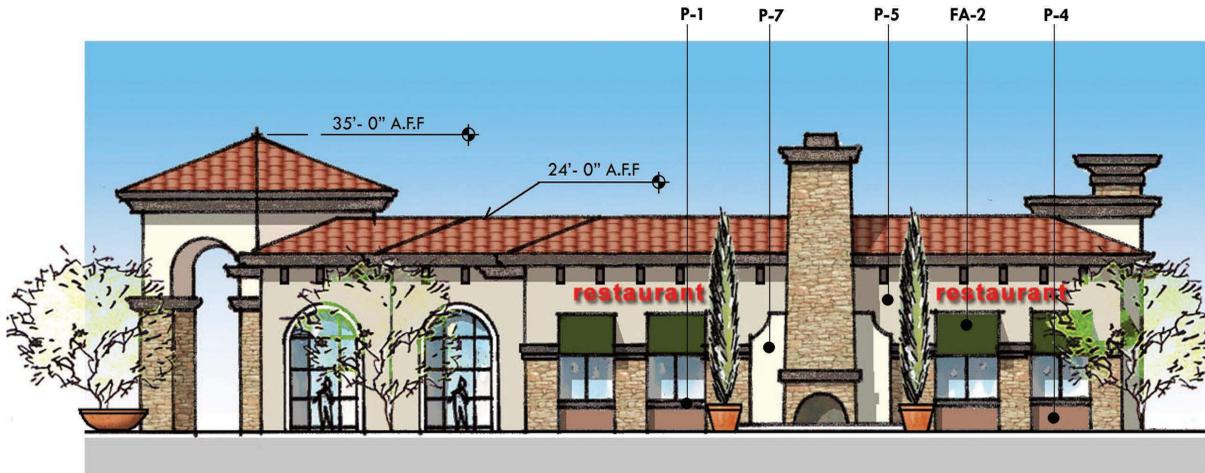




Northeast Elevation



North Elevation



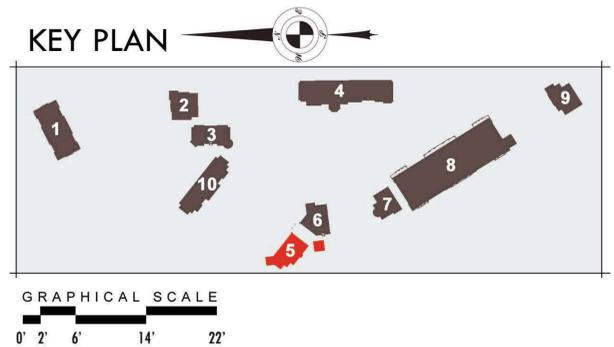
Northwest Elevation



South Elevation

EXTERIOR MATERIALS & FINISHES

P-1	DUNN EDWARDS #6049 "CHAPS"	(PAINT)	S-1	EL DORADO STONE - PONDEROSA CLIFFSTONE	(STONE MASONRY)
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Elevation 01



Elevation 02



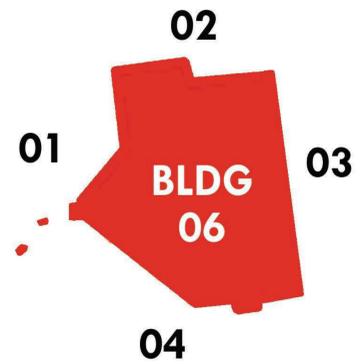
Tower Elevation



Elevation 04

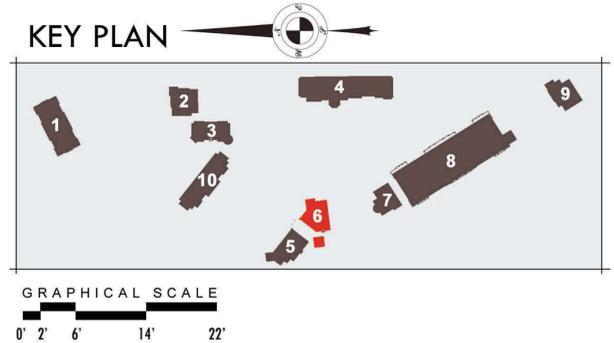


Elevation 03



EXTERIOR MATERIALS & FINISHES

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P-7	SHERWIN WILLIAMS #7100 "ARCADE WHITE"	(PAINT)			





West Elevation



South Elevation



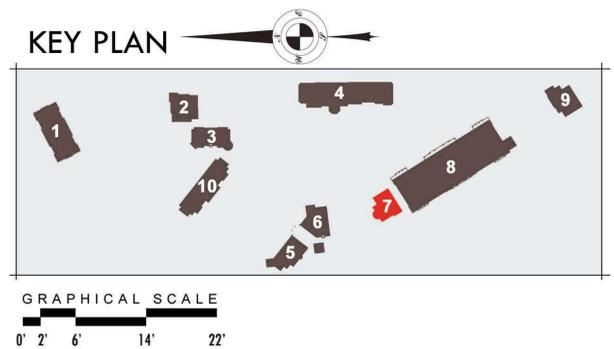
East Elevation



North Elevation

EXTERIOR MATERIALS & FINISHES

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East Elevation



East Elevation (cont'd)

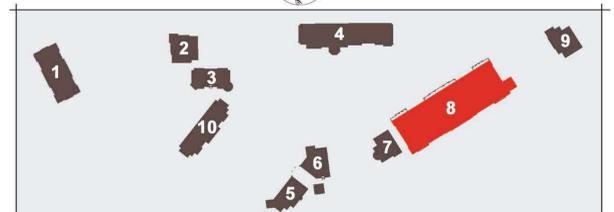


North Elevation

EXTERIOR MATERIALS & FINISHES

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P-7	SHERWIN WILLIAMS #7100 "ARCADE WHITE"	(PAINT)			

KEY PLAN



GRAPHICAL SCALE
0' 2' 6' 14' 22'



West Elevation



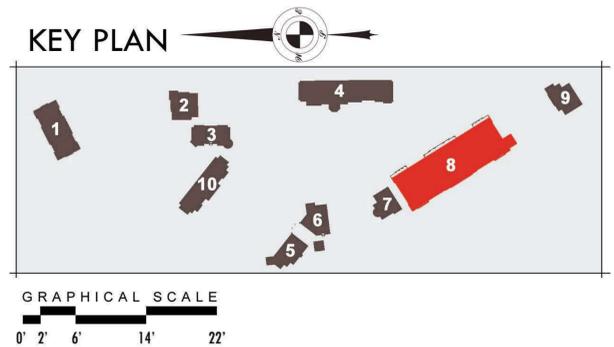
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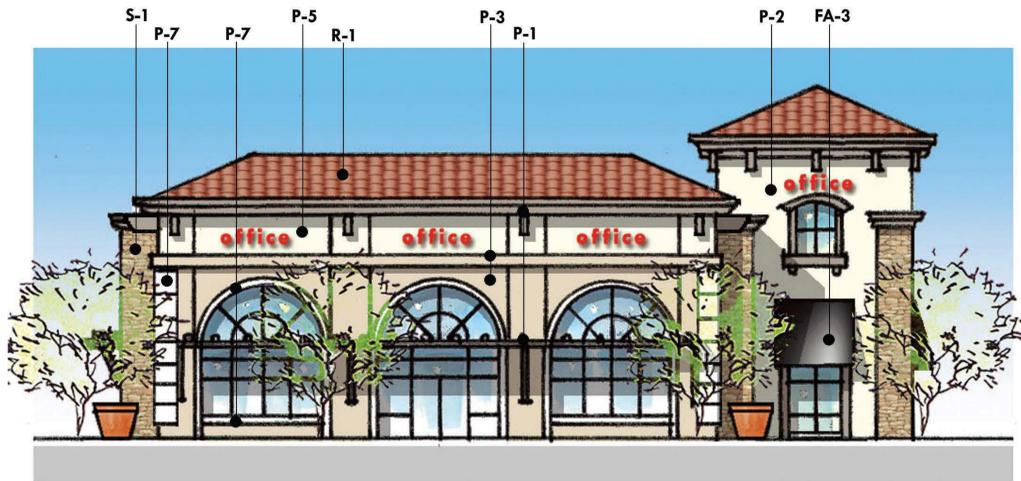


South Elevation

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North Elevation



West Elevation



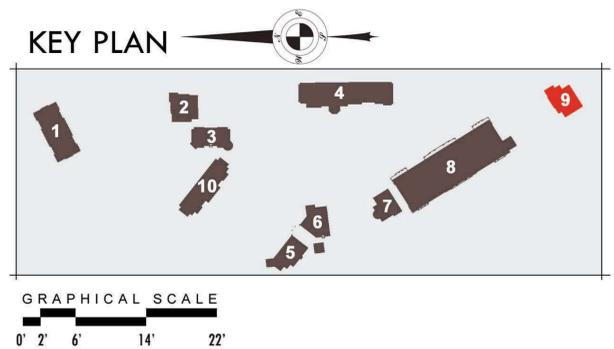
South Elevation



East Elevation

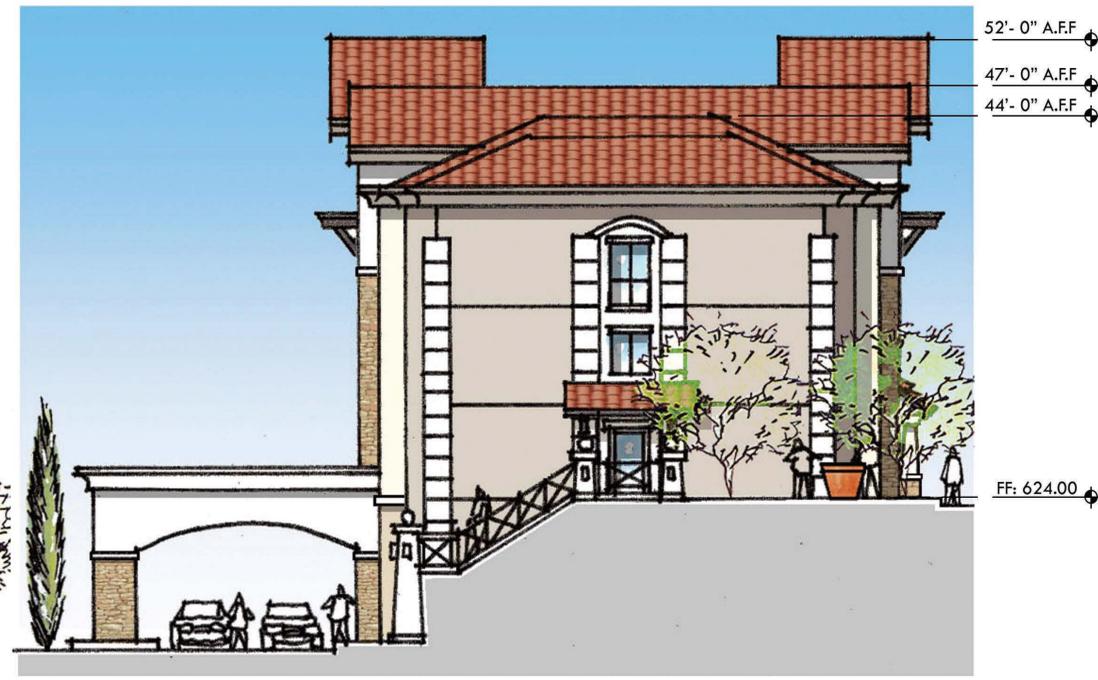
EXTERIOR MATERIALS & FINISHES

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West Elevation



South Elevation



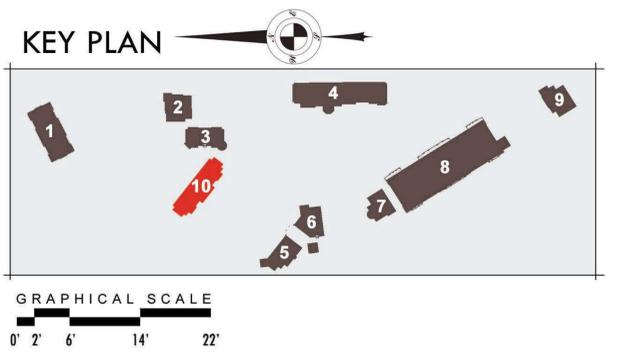
East Elevation



North Elevation

EXTERIOR MATERIALS & FINISHES

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P-7	SHERWIN WILLIAMS #7100 "ARCADE WHITE"	(PAINT)			



SPRINGHILL SUITES MONTANO DE ORO EL DORADO HILLS CA

SHS-USA-CA-EL DORADO HILLS
100 KEY / 5 STORY MODIFIED PROTOTYPE



NOTE: THIS RENDERING IS CONCEPTUAL IN NATURE AND MAY NOT ACCURATELY PORTRAY THE ACTUAL DESIGN. PLEASE REFER TO SCALED BUILDING ELEVATIONS FOR ACTUAL DIMENSIONS, MATERIAL SELECTION, ETC.

ARCH ET - 30"x42" - 762mmx1067mm (rounded)

DECOR PACKAGE

PALETTES

ACOUSTIC REQUIREMENTS - CONSTRUCTION CRITERIA			
TYPE	PARTITION LOCATION	STC	IIC
1	FLOOR / CEILING ASSEMBLY	55	50*
2	GUESTROOM PARTY WALL (INCLUDING SHAFTE / CHASE WALL BETWEEN GUEST BATHS)	55	
3	GUESTROOM ADJACENT TO PUBLIC AND MEETING SPACES, SERVICE AREAS, ELEVATORS, EQUIPMENT ROOMS, LAUNDRY AND SIMILAR SPACES	55*	
4	CORRIDOR WALLS	50	
5	OTHER WALLS		

NOTE: FLOOR AND WALL ASSEMBLIES SUBJECT TO CHANGE WITH FURTHER ENGINEERING

KEYNOTES

- ① NOT USED
- ② EGRESS DOOR ON MAGNETIC HOLD OPEN TIED TO FIRE ALARM/SUPPRESSION SYSTEM
- ③ SHAFT
- ④ NOT USED
- ⑤ ACCESSIBLE ROLL IN SHOWER, ACCESSIBLE TUB IS ACCEPTABLE ALTERNATE, MIN 2 ROLL IN SHOWERS REQUIRED.
- ⑥ ACCESSIBLE BATHTUB
- ⑦ OPTIONAL INTERCONNECTING DOOR
- ⑧ RATED LINEN CHUTE WITH SELF CLOSING INTAKE HATCH.
- ⑨ GUEST LAUNDRY WASHER, DRYER, AND FOLD TABLE.
- ⑩ ROOF ACCESS LADDER AND HATCH AT FIFTH FLOOR ONLY TO ACCESS NON OCCUPIED ROOF.
- ⑪ ICE MACHINE IS STANDARD ON THE FIRST FLOOR AND EVERY OTHER FLOOR. ICE DISPENSERS ARE OPTIONAL ON ALL FLOORS. AT FLOORS WHERE ICE DISPENSERS ARE NOT PROVIDED PROVIDE STORAGE ROOM.

GENERAL NOTES

1. OBTAIN BUILDING OWNERS (AND TENANT'S UPON REQUEST) APPROVAL OF WALL CHALK LINES PRIOR TO INSTALLATION OF BASE TRACKS.
2. OBTAIN BUILDING OWNERS (AND TENANT'S UPON REQUEST) APPROVAL OF ELECTRICAL AND DATA OUTLET LOCATION, CHALK LINES PRIOR TO INSTALLATION. SEE ELECTRICAL DRAWINGS.
3. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
4. PROVIDE METAL STUDS TO MATCH SPECIFIED WALL GAGE AT ALL NEW DOOR JAMBS AND HEAD CONDITIONS.
5. STUD GAGE AND SIZE INDICATED ARE MINIMUM STANDARDS. CONTRACTOR TO SELECT STUD SIZE AND GAGE PER STRUCTURAL OR OTHER TRADE REQUIREMENTS IN THIS EVENT SHALL STUD SIZE, GAGE, AND SPACING FALL BELOW MINIMUM REQUIREMENTS UNLESS OTHERWISE INDICATED.
6. ALL WALLS TO BE FINISHED WITH 5/8" TYPE X GYP BOARD UNLESS OTHERWISE SPECIFIED.
7. ALL FLOORS SHALL BE LEVEL AND CLEAN PRIOR TO START OF WALL ERECTION. PATCH, REPAIR AND/OR REPLACE AS REQUIRED.
8. WALLS SHALL BE FINISHED AND PAINTED FROM SLAB TO HEAD ON BOTH SIDES OF THE WALL WHERE WALL IS EXPOSED FULL HEIGHT. AT WALLS WHERE CEILING OCCUR WALLS SHALL BE FINISHED AND PAINTED FROM SLAB TO A POINT 6" ABOVE T-BAR.
9. PROVIDE 5/8" WATER RESISTANT TYPE X GYP BOARD AT ALL UET LOCATION WALLS. AT LOCATIONS WHERE WALL FINISH IS SPECIFIED TO BE TILE USE 5/8" TYPE X CEMENT BACKER BOARD.
10. CONTRACTOR TO COORDINATE STUD SIZE AT PLUMBING WALLS TO ACCOMMODATE LATERAL RUNS.
11. PROVIDE ALL REQUIRED FIRE SPREAD PREVENTION METHODS INCLUDING BUT NOT LIMITED TO FIRE CAULKING, FIRE SAFING, FIRE TAPING, FIRE DAMPERS, ETC. AT ALL PENETRATIONS OF RATED CONDITIONS SO AS TO MAINTAIN RATED CONSTRUCTION.
12. ENTRY AND EXIT DOORS ON THE EXTERIOR OF THE BUILDING, AND INTERIOR DOORS INCLUDED WITH THIS SCOPE OF WORK, SHALL CONFORM TO TITLE 24 REQUIREMENTS.
 - HARDWARE: MAXIMUM EFFORT TO OPERATE DOOR SHALL NOT EXCEED 8 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. MAXIMUM EFFORT TO OPERATE FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
 - EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
 - CONSTRUCTION: THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
 - SEE DOOR NOTES FOR ADDITIONAL INFORMATION.
25. ALL SELF CLOSING DOORS WITH A LATCH SHALL HAVE REQUIRED DOOR CLEARANCES: PROVIDE MIN 1" STRIKE SIDE CLEARANCE ON PUSH SIDE OF DOORS, PROVIDE MIN 18" STRIKE SIDE CLEARANCE ON THE PULL SIDE OF DOORS, PROVIDE MIN 24" STRIKE SIDE CLEARANCE ON THE PULL SIDE OF EXTERIOR DOORS, PROVIDE MIN 48" DEEP CLEAR SPACE IN FRONT OF THE DOOR ON THE PUSH SIDE AND 60" DEEP CLEAR SPACE IN FRONT OF THE DOOR ON THE PULL SIDE.

GENERAL NOTES (CONTINUED)

26. CONFIRM ROOM NUMBERING CONVENTIONS WITH TENANT PRIOR TO ORDERING, MANUFACTURING AND/OR INSTALLING IDENTIFICATION SIGNAGE. ROOM NUMBERS IDENTIFIED ON PLAN ARE FOR CONSTRUCTION COORDINATION ONLY.
27. INTERIOR FINISHES SHALL CONFORM TO THE SPRINGHILL SUITES BY MARRIOTT GEN 4.5 DESIGN GUIDELINES UNLESS OTHERWISE NOTED.
28. ROOM CAPACITY SIGNAGE SHALL BE PROVIDED AND POSTED IN ROOMS OR SPACES THAT SERVE AS ASSEMBLY AREAS. LOCATION OF SIGNAGE TO BE LOCATED NEAR OR ABOVE THE EXIT. FINAL LOCATIONS TO BE APPROVED BY THE LOCAL FIRE DEPARTMENT HAVING JURISDICTION.
29. CONTRACTOR SHALL COORDINATE THE SIZE, LOCATION, AND CAPACITY OF WALL MOUNTED EQUIPMENT AND FURNISHINGS SUCH AS TV'S, DRESSERS, HEADBOARDS, SHELVING, GRAB BARS, ETC WITH TENANT. COORDINATE THE LOCATION OF ELECTRICAL AND DATA OUTLETS WITH BACKING AS REQUIRED FOR FULLY SUPPORTED AND OPERATIONAL EQUIPMENT. WALL MOUNTED EQUIPMENT PROJECTING MORE THAN 4" ABOVE THE FINISH FLOOR SHALL BE MOUNTED IN A MANNER TO ALLOW MIN 80" CLEAR HEADROOM UNDERNEATH THE BOTTOM EDGE.
30. PROVIDE EGRESS MAPS ON THE INTERIOR SIDE OF THE DOOR ON ALL GUEST ROOMS.
31. WALL TYPES SHALL CONFORM TO THE MINIMUM STC RATING NOTED.

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7-01-19	KEY COUNT CHANGE	

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Project

SPRINGHILL SUITES
MONTANO DE ORO
EL DORADO HILLS CA
 SHS-USA-CA-EL DORADO HILLS
 113 KEY / 5 STORY MODIFIED PROTOTYPE

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Project Leader	Checked
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Client	
PERKINS COMMERCIAL GROUP	

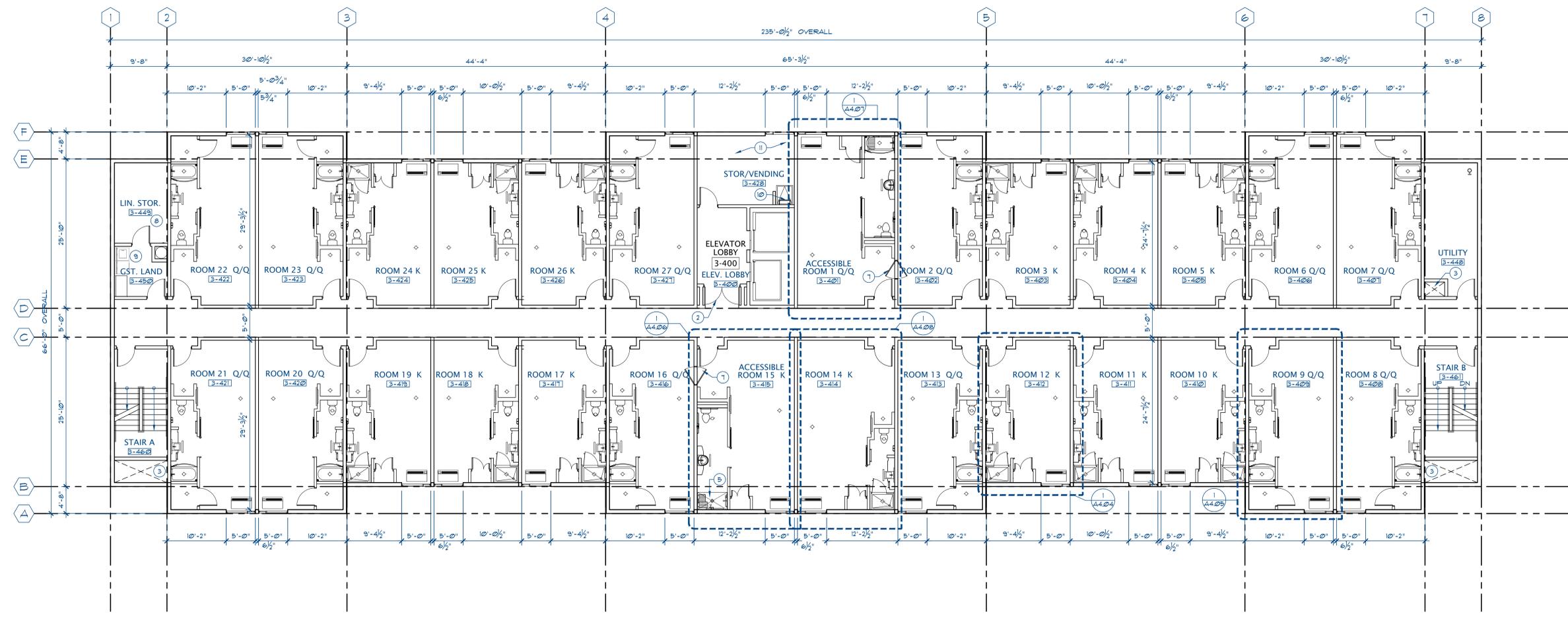
Drawing Title

TYPICAL THIRD, FOURTH, FLOOR PLANS

Check Scale (may be photo reduced)
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Project No. JCSR18-0223-00

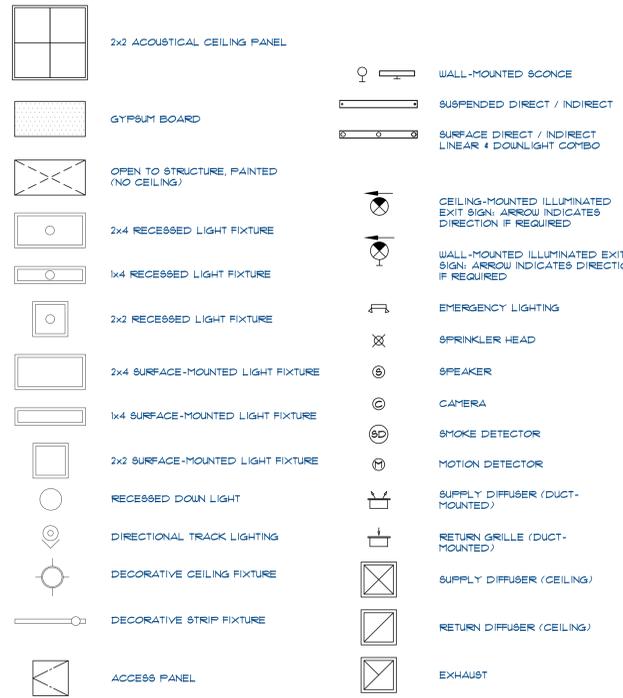
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1 TYPICAL THIRD, FOURTH FLOOR PLANS
SCALE: 1/8" = 1'-0"



CEILING LEGEND

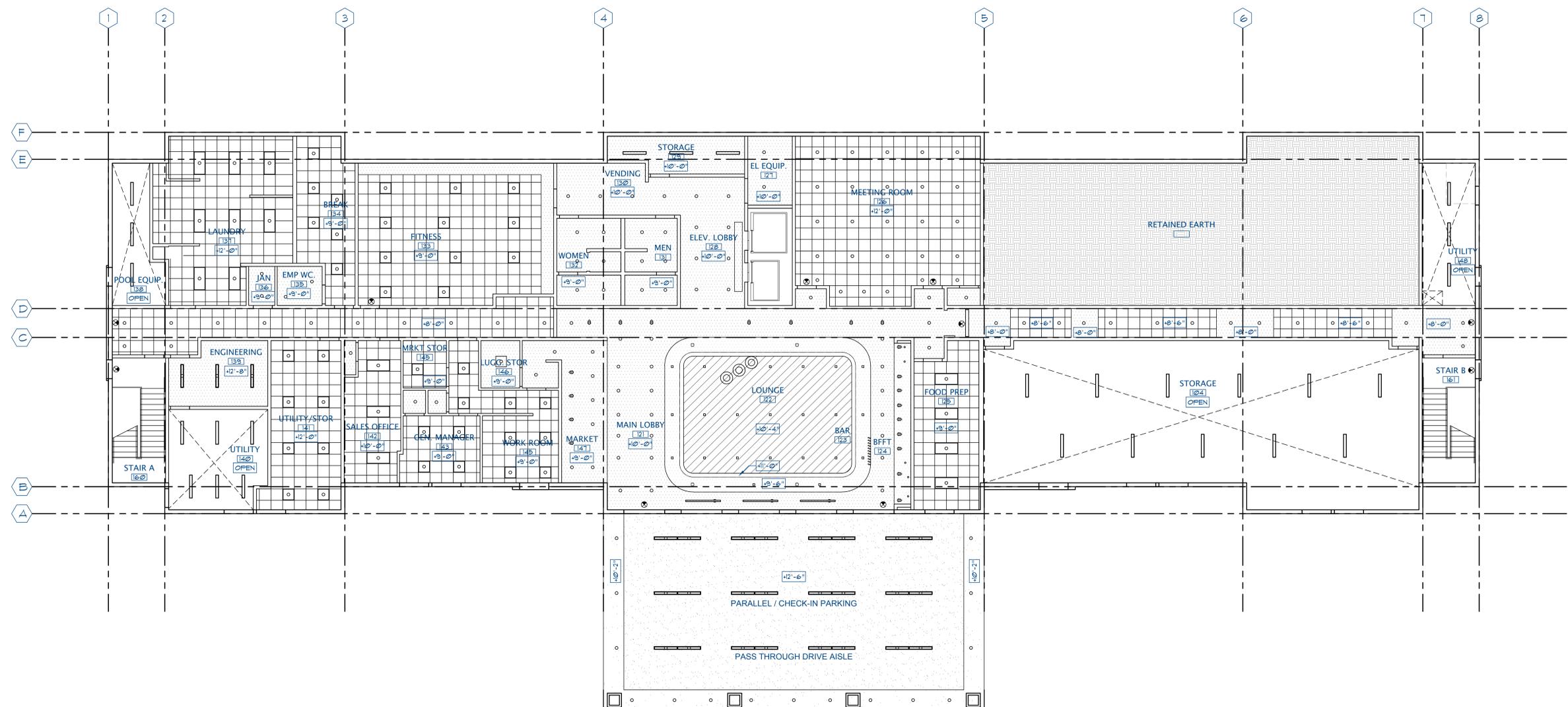


GENERAL CEILING NOTES

- CONTRACTORS TO COORDINATE ALL HVAC SUPPLY / RETURN REGISTERS AS REQUIRED TO ACCOMMODATE FOR LIGHTING LAYOUT.
- CONTRACTOR TO PERFORM OVER HEAD COORDINATION TO AVOID COLLISION BETWEEN TRADES PRIOR TO THE INSTALLATION OF LIGHTS, DUCTWORK, T-BAR CEILING ETC AND PROVIDE ALL NECESSARY BLOCKING AND SUPPORT.
- SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C639 AND ASTM C636 PER CBC 803.11. CENTER CEILING WITHIN ROOMS AS SHOWN.
- THE T-BAR CEILING GRID SYSTEM SHALL BE RATED AS "HEAVY DUTY".
- INSTALLATION:
 - VERTICAL HANGERS; SUSPENSION WIRES SHALL NOT BE SMALLER THAN 1/8" GA SPACED AT 4 FEET ON CENTER ALONG EACH MAIN RUNNER UNLESS CALCULATIONS JUSTIFYING THE INCREASED SPACING ARE PROVIDED. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER AND TO THE SUPPORT ABOVE WITH A MINIMUM OF 3 TURNS. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB UNLESS COUNTERSLOPING WIRES ARE PROVIDED. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIALS OR EQUIPMENT. A TRAPEZOID OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZOID SUSPENSION SHALL BE A MINIMUM OF BACK TO BACK 1/4" GILD ROLLED CHANNELS FOR SPANS EXCEEDING 48".
 - LATERAL FORCE BRACING; WHERE SUBSTANTIATING CALCULATIONS ARE NOT PROVIDED, HORIZONTAL RESTRAINTS SHALL BE AFFECTED BY 4 NO 12 GAGE WIRE SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER. INTERSECTION AND SPACED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 4 FEET FROM EACH WALL. RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE ATTACHMENT OF THE FOR THE LOAD IMPOSED.
 - PERIMETER MEMBERS; UNLESS PERIMETER MEMBERS ARE A STRUCTURAL PART OF THE APPROVED SYSTEM WALL ANGLES OR CHANNELS SHALL BE CONSIDERED AS AESTHETIC CLOSURES AND WILL HAVE NO STRUCTURAL VALUE ASSIGNED TO THEMSELVES OR THEIR METHOD OF ATTACHMENT TO THE WALLS. FOR CEILING TILES, ENDS OF THE MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING.
 - PERIMETER HANGERS; THE TERMINAL ENDS OF EACH CROSS RUNNER AND MAIN RUNNER CEILING SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8 INCHES FROM EACH WALL OR DISCONTINUITY WITH NO 12 GAGE WIRE OR APPROVED WALL SUPPORT.
 - ATTACHMENT OF MEMBERS TO THE PERIMETER; TO FACILITATE INSTALLATION MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER MEMBERS AT 2 ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND THE RUNNERS MAINTAINED AT THE OTHER 2 WALLS OR AS OTHERWISE SHOWN OR DESCRIBED FOR THE APPROVED SYSTEM.
- EXIT SIGNS SHALL BE PROVIDED WHERE REQUIRED BY CBC SECTION 103.

GENERAL CEILING NOTES (CONTINUED)

- PROVIDE CEILING EXPANSION JOINT WHERE T-BAR CEILING EXCEED AN AREA OF 2500 SF. PROVIDE MANUFACTURER'S DETAIL FOR APPROVAL BY ARCHITECT. CONTRACTOR TO PROVIDE LOCATIONS FOR APPROVAL BY ARCHITECT.
- PROVIDE MEANS OF EGRESS ILLUMINATION AS REQUIRED PER CBC SECTION 1008 AN EMERGENCY POWER SYSTEM FOR MEANS OF EGRESS ILLUMINATION SHALL BE PER CBC SECTION 1008. SEE ELECTRICAL.
- LABEL CEILING TILES BELOW ANY VAV BOX, DAMPER, CONTROL VALVE OR SIMILAR COMPONENT INDICATING THEIR LOCATION. PROVIDE SAMPLE OF LABEL TO ARCHITECT FOR APPROVAL.
- PROVIDE SWITCHING AS PER TITLE-24 ENERGY REQUIREMENTS. LOCATIONS SUBJECT TO ARCHITECT'S PRIOR APPROVALS.
- PROVIDE MIN. ONE SUPPLY AND ONE RETURN REGISTER PER ROOM. GRILL STYLE SUBJECT TO ARCHITECT'S PRIOR APPROVAL. UNDERCUTTING OF DOORS OR USE OF GRILLS IN DOOR IS NOT ACCEPTABLE FOR RETURN AIR. SEE MECHANICAL.
- PROVIDE SMOKE / FIRE DAMPERS AS REQUIRED INCLUDING ALL ELECTRICAL WIRING AND SENSORS TO MAINTAIN RATED CONSTRUCTION WHERE REQUIRED.
- FIRE SPRINKLER CONTRACTOR TO SUBMIT PLANS, SPECIFICATIONS AND CALCULATIONS TO LOCAL FIRE PROTECTION AGENCIES FOR APPROVALS AT TIME OF BUILDING PLAN CHECK SUBMISSION WITH COPIES TO THE ARCHITECT FOR APPROVAL. SPRINKLER CONTRACTOR TO OBTAIN ALL PERMITS AND INSPECTIONS AS REQUIRED.
- SPRINKLER HEAD LAYOUT SHALL BE IN A STRAIGHT LINE / GRID CONFIGURATION. MODIFY EXISTING HEAD LOCATIONS TO ACCOMMODATE NEW TENANT IMPROVEMENT.
- PER THE 2016 CALIFORNIA BUILDING CODE, CEILING IN DESIGN CATEGORIES "D", "E", "F", "G" SHALL BE DESIGNED AND INSTALLED PER CODE SECTION CBC 803.13.2, CBC 808, AS WELL AS THE REQUIREMENTS OF ASTM C639, C636, CBCA GUIDELINES FOR SEISMIC ZONES 3-4, AND BY REFERENCE ASTM E830 AND ASCE 7-09 SECTION 13.6.2.2 (A).
- CEILING COMPONENTS SHALL BE PER THE MANUFACTURING REQUIREMENTS OF ASTM C639 PER THE BASIC INSTALLATION REQUIREMENTS OF ASTM C636, AND THE ADDITIONAL SEISMIC REQUIREMENTS CALLED FOR IN CBCA GUIDELINES FOR SEISMIC ZONES 3-4, AND BY REFERENCE ASTM E830 AND ASCE 7-09 SECTION 13.6.2.2 (A).
- FLAT CEILING CONSTRUCTION OF LATH, PLASTER OR GYPSUM BOARD, SCREW OR NAIL ATTACHED TO SUSPENSION MEMBERS THAT SUPPORT A CEILING ON ONE LEVEL EXTENDING FROM WALL TO WALL ARE EXEMPT FROM SEISMIC CONSTRUCTION REQUIREMENTS.
- PROVIDE CONTROL JOINTS SO CEILING AREAS DO NOT EXCEED 300 SF. IF A CONTROL JOINT IS PROVIDED AROUND THE PERIMETER OF THE ROOM THEN PROVIDE CONTROL JOINTS SO THAT CEILING AREAS DO NOT EXCEED 2500 SF.
- AT LONG RUNNING SOFFITS PROVIDE CONTROL JOINTS @ 30' MAXIMUM.
- PROVIDE CONTROL JOINTS AT THE WINGS OF "L", "U", AND "T" SHAPED CEILING.



1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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Project

SPRINGHILL SUITES
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EL DORADO HILLS CA
SHS-USA-CA-EL DORADO HILLS
113 KEY / 5 STORY MODIFIED PROTOTYPE

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Project Leader J. CHAPIN	Checked J. CHAPIN
Client PERKINS COMMERCIAL GROUP	

Drawing Title
FIRST FLOOR REFLECTED CEILING PLAN

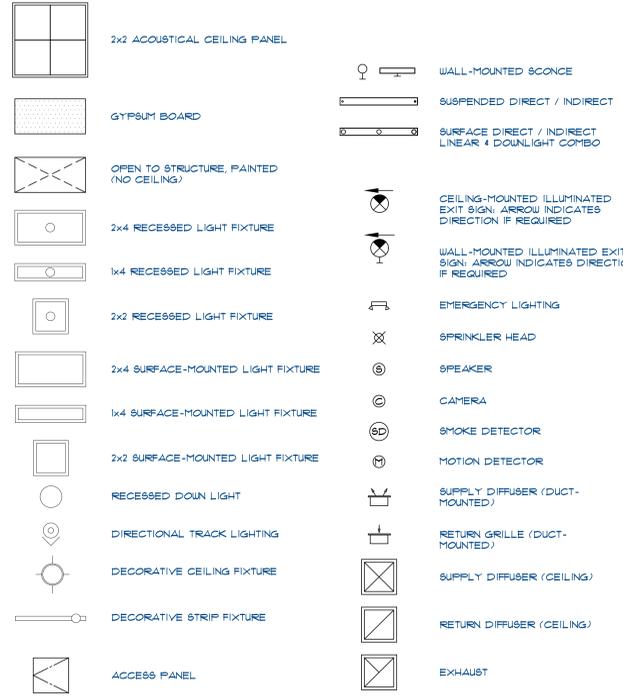
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Project No. JCSR18-0223-00

Drawing No. **A2.11**



CEILING LEGEND



GENERAL CEILING NOTES

- CONTRACTORS TO COORDINATE ALL HVAC SUPPLY / RETURN REGISTERS AS REQUIRED TO ACCOMMODATE FOR LIGHTING LAYOUT.
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GENERAL CEILING NOTES (CONTINUED)

- PROVIDE CEILING EXPANSION JOINT WHERE T-BAR CEILING EXCEED AN AREA OF 2500 SF. PROVIDE MANUFACTURER'S DETAIL FOR APPROVAL BY ARCHITECT. CONTRACTOR TO PROVIDE LOCATIONS FOR APPROVAL BY ARCHITECT.
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- AT LONG RUNNING SOFFITS PROVIDE CONTROL JOINTS @ 30' MAXIMUM.
- PROVIDE CONTROL JOINTS AT THE WINGS OF "L", "U", AND "T" SHAPED CEILING.

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MONTANO DE ORO
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 113 KEY / 5 STORY MODIFIED PROTOTYPE

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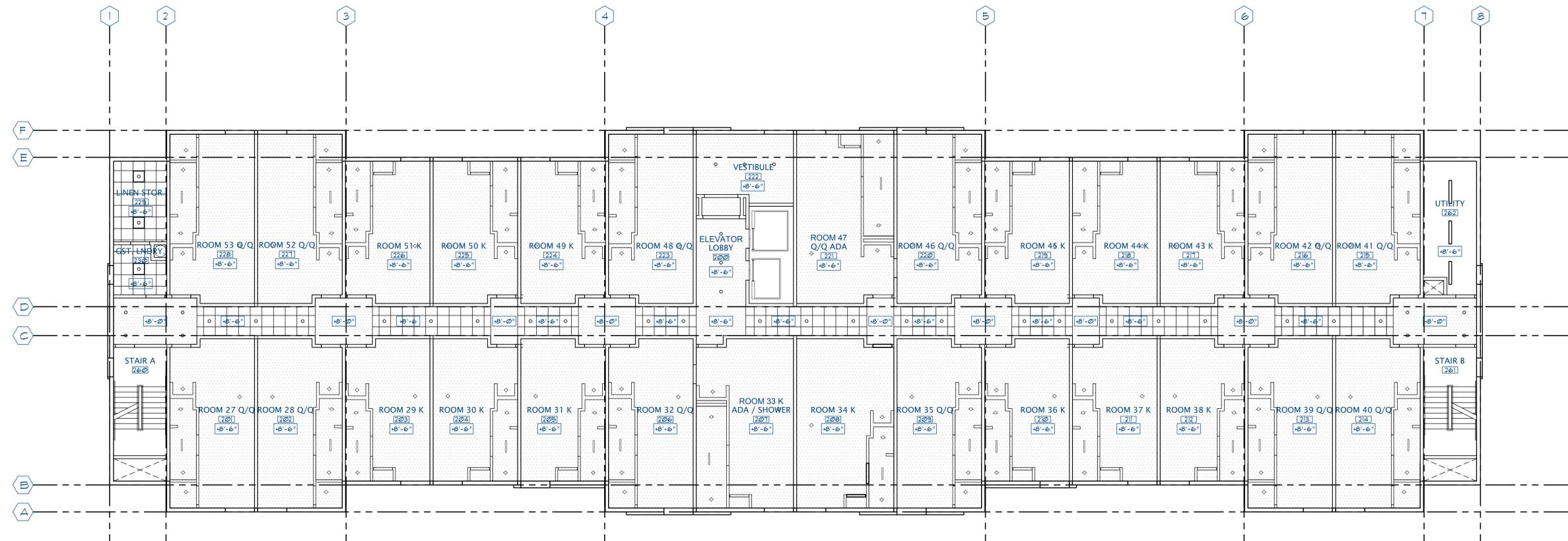
Project Manager D. ALBRIGHT	Drawn
Project Leader J. CHAPIN	Checked J. CHAPIN
Client PERKINS COMMERCIAL GROUP	

Drawing Title
REFLECTED CEILING PLANS
SECOND FLOOR

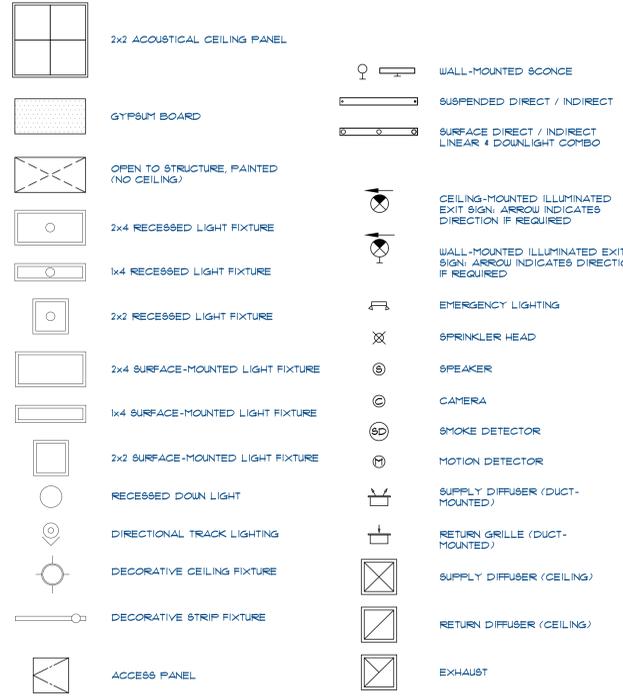


Project No. JCSR18-0223-00

Drawing No. **A2.12**



CEILING LEGEND



GENERAL CEILING NOTES

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- THE T-BAR CEILING GRID SYSTEM SHALL BE RATED AS "HEAVY DUTY".
- INSTALLATION:
 - VERTICAL HANGERS, SUSPENSION WIRES SHALL NOT BE SMALLER THAN 1/8" GAGE SPACED AT 4 FEET ON CENTER ALONG EACH MAIN RUNNER UNLESS CALCULATIONS JUSTIFYING THE INCREASED SPACING ARE PROVIDED. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER AND TO THE SUPPORT ABOVE WITH A MINIMUM OF 3 TURNS. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1" IN OUT OF PLUMB UNLESS COUNTERSLOPING WIRES ARE PROVIDED. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIALS OR EQUIPMENT. A TRAPEZOID OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRELUDE DIRECT SUSPENSION. TRAPEZOID SUSPENSION SHALL BE A MINIMUM OF BACK TO BACK 1-1/4" GOLD ROLLED CHANNELS FOR SPANS EXCEEDING 48"
 - LATERAL FORCE BRACING, WHERE SUBSTANTIATING CALCULATIONS ARE NOT PROVIDED, HORIZONTAL RESTRAINTS SHALL BE AFFECTED BY 4 NO 12 GAGE WIRE SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER. INTERSECTION AND SPACED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 4 FEET FROM EACH WALL. RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE ATTACHMENT OF THE FOR THE LOAD IMPOSED.
 - PERIMETER MEMBERS, UNLESS PERIMETER MEMBERS ARE A STRUCTURAL PART OF THE APPROVED SYSTEM, WALL ANGLES OR CHANNELS SHALL BE CONSIDERED AS AESTHETIC CLOSURES AND WILL HAVE NO STRUCTURAL VALUE ASSESSED TO THEMSELVES OR THEIR METHOD OF ATTACHMENT TO THE WALLS. FOR CEILING TILES, ENDS OF THE MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING.
 - PERIMETER HANGERS, THE TERMINAL ENDS OF EACH CROSS RUNNER AND MAIN RUNNER CEILING SHALL BE SUPPORTED INDEPENDENTLY WITH NO 12 GAGE WIRE OR APPROVED WALL SUPPORT.
 - ATTACHMENT OF MEMBERS TO THE PERIMETER, TO FACILITATE INSTALLATION MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER MEMBERS AT 2 ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND THE RUNNERS MAINTAINED AT THE OTHER 2 WALLS OR AS OTHERWISE SHOWN OR DESCRIBED FOR THE APPROVED SYSTEM.
- EXIT SIGNS SHALL BE PROVIDED WHERE REQUIRED BY CBC SECTION 103.

GENERAL CEILING NOTES (CONTINUED)

- PROVIDE CEILING EXPANSION JOINT WHERE T-BAR CEILING EXCEED AN AREA OF 2500 SF. PROVIDE MANUFACTURER'S DETAIL FOR APPROVAL BY ARCHITECT. CONTRACTOR TO PROVIDE LOCATIONS FOR APPROVAL BY ARCHITECT.
- PROVIDE MEANS OF EGRESS ILLUMINATION AS REQUIRED PER CBC SECTION 1008 AN EMERGENCY POWER SYSTEM FOR MEANS OF EGRESS ILLUMINATION SHALL BE PER CBC SECTION 1008. SEE ELECTRICAL.
- LABEL CEILING TILES BELOW ANY VAV BOX, DAMPER, CONTROL VALVES OR SIMILAR COMPONENT INDICATING THEIR LOCATION. PROVIDE SAMPLE OF LABEL TO ARCHITECT FOR APPROVAL.
- PROVIDE SWITCHING AS PER TITLE-24 ENERGY REQUIREMENTS. LOCATIONS SUBJECT TO ARCHITECT'S PRIOR APPROVALS.
- PROVIDE MIN. ONE SUPPLY AND ONE RETURN REGISTER PER ROOM. GRILL STYLE SUBJECT TO ARCHITECT'S PRIOR APPROVAL. UNDERCUTTING OF DOORS OR USE OF GRILLS IN DOOR IS NOT ACCEPTABLE FOR RETURN AIR. SEE MECHANICAL.
- PROVIDE SMOKE / FIRE DAMPERS AS REQUIRED INCLUDING ALL ELECTRICAL WIRING AND SENSORS TO MAINTAIN RATED CONSTRUCTION WHERE REQUIRED.
- FIRE SPRINKLER CONTRACTOR TO SUBMIT PLANS, SPECIFICATIONS AND CALCULATIONS TO LOCAL FIRE PROTECTION AGENCIES FOR APPROVALS AT TIME OF BUILDING PLAN CHECK SUBMISSION WITH COPIES TO THE ARCHITECT FOR APPROVAL. SPRINKLER CONTRACTOR TO OBTAIN ALL PERMITS AND INSPECTIONS AS REQUIRED.
- SPRINKLER HEAD LAYOUT SHALL BE IN A STRAIGHT LINE / GRID CONFIGURATION. MODIFY EXISTING HEAD LOCATIONS TO ACCOMMODATE NEW TENANT IMPROVEMENT.
- PER THE 2016 CALIFORNIA BUILDING CODE, CEILING IN DESIGN CATEGORIES "D", "E", "F" SHALL BE DESIGNED AND INSTALLED PER CODE SECTION CBC 603.13.2, CBC 608, AS WELL AS THE REQUIREMENTS OF ASTM C639, C636, CIBCA GUIDELINES FOR SEISMIC ZONES 3-4, AND BY REFERENCE ASTM E888 AND ASCE 1-09 SECTION 13.6.2.2 (A).
- CEILING COMPONENTS SHALL BE PER THE MANUFACTURING REQUIREMENTS OF ASTM C639, PER THE BASIC INSTALLATION REQUIREMENTS OF ASTM C636, AND THE ADDITIONAL SEISMIC REQUIREMENTS CALLED FOR IN CIBCA GUIDELINES FOR SEISMIC ZONES 3-4, AND BY REFERENCE ASTM E888 AND ASCE 1-09 SECTION 13.6.2.2 (A).
- FLAT CEILING CONSTRUCTION OF LATH, PLASTER OR GYPSUM BOARD, SCREW OR NAIL ATTACHED TO SUSPENSION MEMBERS THAT SUPPORT A CEILING ON ONE LEVEL EXTENDING FROM WALL TO WALL ARE EXEMPT FROM SEISMIC CONSTRUCTION REQUIREMENTS.
- PROVIDE CONTROL JOINTS SO CEILING AREAS DO NOT EXCEED 300 SF. IF A CONTROL JOINT IS PROVIDED AROUND THE PERIMETER OF THE ROOM THEN PROVIDE CONTROL JOINTS SO THAT CEILING AREAS DO NOT EXCEED 2500 SF.
- AT LONG RUNNING SOFFITS PROVIDE CONTROL JOINTS @ 30' MAXIMUM.
- PROVIDE CONTROL JOINTS AT THE WINGS OF "L", "U", AND "T" SHAPED CEILING.

DATE	ISSUED FOR	REV
12-31-18	OWNER REVIEW	
7-01-19	KEY COUNT CHANGE	

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Project

SPRINGHILL SUITES
MONTANO DE ORO
EL DORADO HILLS CA
 SHS-USA-CA-EL DORADO HILLS
 113 KEY / 5 STORY MODIFIED PROTOTYPE

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Client	
PERKINS COMMERCIAL GROUP	

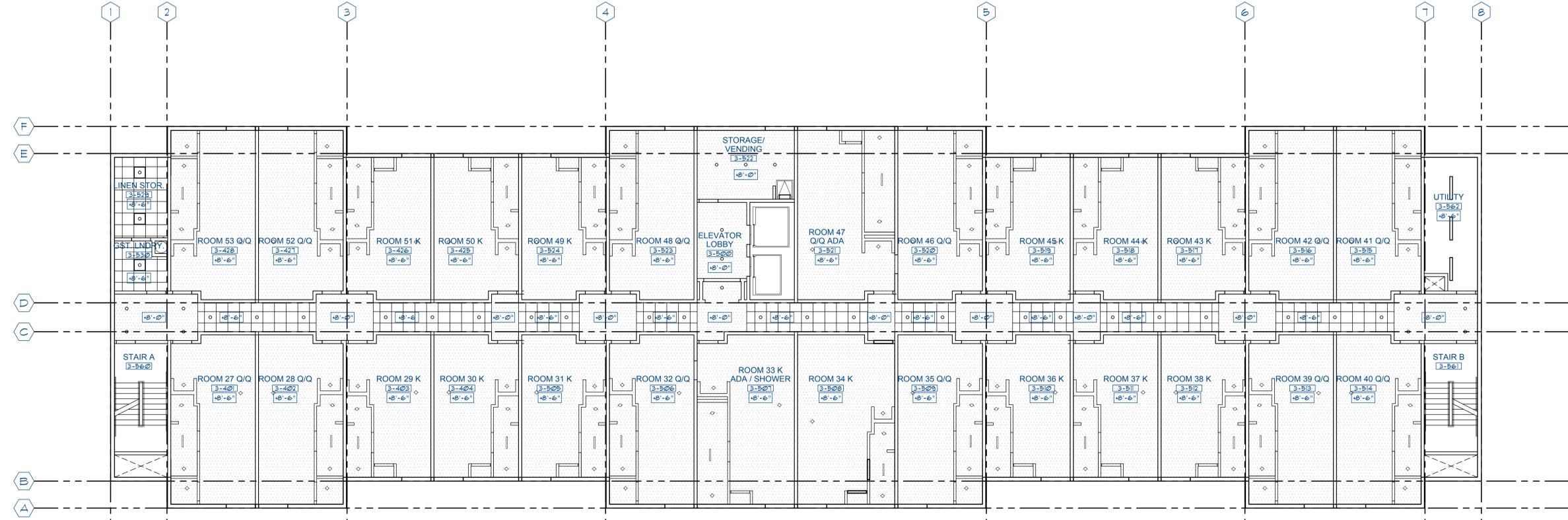
Drawing Title

REFLECTED CEILING PLANS
THIRD, FOURTH FLOORS



Project No. JCSR18-0223-00

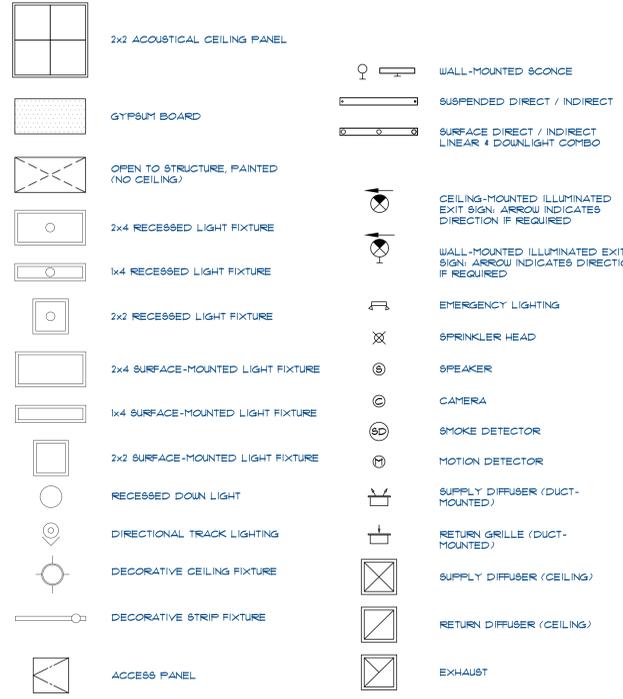
Drawing No. **A2.13**



1 TYPICAL THIRD, FOURTH FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

CEILING LEGEND



GENERAL CEILING NOTES

- CONTRACTORS TO COORDINATE ALL HVAC SUPPLY / RETURN REGISTERS AS REQUIRED TO ACCOMMODATE FOR LIGHTING LAYOUT.
- CONTRACTOR TO PERFORM OVER-HEAD COORDINATION TO AVOID COLLISION BETWEEN TRADES PRIOR TO THE INSTALLATION OF LIGHTS, DUCTWORK, T-BAR CEILING ETC AND PROVIDE ALL NECESSARY BLOCKING AND SUPPORT.
- SUSPENDED ACOUSTICAL CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C639 AND ASTM C636 PER CBC 603.11. CENTER CEILING WITHIN ROOMS AS SHOWN.
- THE T-BAR CEILING GRID SYSTEM SHALL BE RATED AS "HEAVY DUTY".
- INSTALLATION:
 - VERTICAL HANGERS: SUSPENSION WIRES SHALL NOT BE SMALLER THAN 12 GA SPACED AT 4 FEET ON CENTER ALONG EACH MAIN RUNNER UNLESS CALCULATIONS JUSTIFY THE INCREASED SPACING ARE PROVIDED. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER AND TO THE SUPPORT ABOVE WITH A MINIMUM OF 3 TURNS. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 POUNDS. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB UNLESS COUNTERSLOPING WIRES ARE PROVIDED. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIALS OR EQUIPMENT. A TRAPEZOID OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRELUDE DIRECT SUSPENSION. TRAPEZOID SUSPENSION SHALL BE A MINIMUM OF BACK TO BACK 1-1/4" GOLD ROLLED CHANNELS FOR SPANS EXCEEDING 48".
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- EXIT SIGNS SHALL BE PROVIDED WHERE REQUIRED BY CBC SECTION 103.

GENERAL CEILING NOTES (CONTINUED)

- PROVIDE CEILING EXPANSION JOINT WHERE T-BAR CEILING EXCEED AN AREA OF 2500 SF. PROVIDE MANUFACTURER'S DETAIL FOR APPROVAL BY ARCHITECT. CONTRACTOR TO PROVIDE LOCATIONS FOR APPROVAL BY ARCHITECT.
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- LABEL CEILING TILES BELOW ANY VAV BOX, DAMPER, CONTROL VALVE OR SIMILAR COMPONENT INDICATING THEIR LOCATION. PROVIDE SAMPLE OF LABEL TO ARCHITECT FOR APPROVAL.
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- SPRINKLER HEAD LAYOUT SHALL BE IN A STRAIGHT LINE / GRID CONFIGURATION. MODIFY EXISTING HEAD LOCATIONS TO ACCOMMODATE NEW TENANT IMPROVEMENT.
- PER THE 2016 CALIFORNIA BUILDING CODE, CEILING IN DESIGN CATEGORIES "D", "E", "F" SHALL BE DESIGNED AND INSTALLED PER CODE SECTION CBC 603.13.2, CBC 606, AS WELL AS THE REQUIREMENTS OF ASTM C639, C636, CIBCA GUIDELINES FOR SEISMIC ZONES 3-4, AND BY REFERENCE ASTM E880.
- CEILING COMPONENTS SHALL BE PER THE MANUFACTURING REQUIREMENTS OF ASTM C639 PER THE BASIC INSTALLATION REQUIREMENTS CALLED FOR IN CIBCA GUIDELINES FOR SEISMIC ZONES 3-4, AND BY REFERENCE ASTM E880 AND ASCE 7-09 SECTION 13.6.2.2 (A).
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- AT LONG RUNNING SOFFITS PROVIDE CONTROL JOINTS @ 30' MAXIMUM.
- PROVIDE CONTROL JOINTS AT THE WINGS OF "L", "U", AND "T" SHAPED CEILING.

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Project

SPRINGHILL SUITES
MONTANO DE ORO
EL DORADO HILLS CA
 SHS-USA-CA-EL DORADO HILLS
 113 KEY / 5 STORY MODIFIED PROTOTYPE

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Client	
PERKINS COMMERCIAL GROUP	

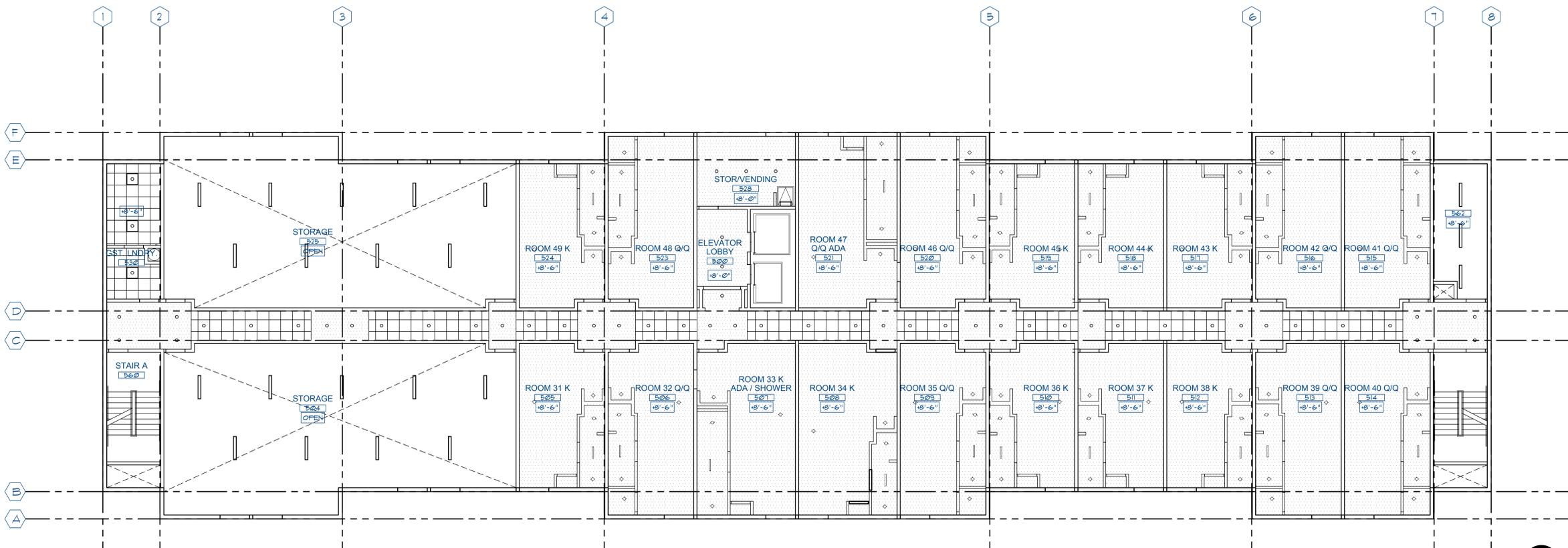
Drawing Title

REFLECTED CEILING PLAN
FIFTH FLOOR



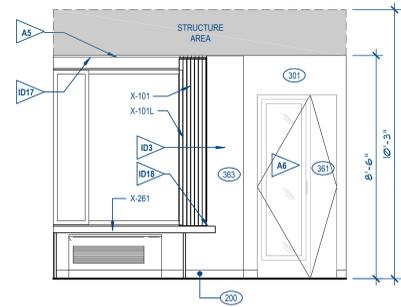
Project No. JCSR18-0223-00

Drawing No. **A2.14**

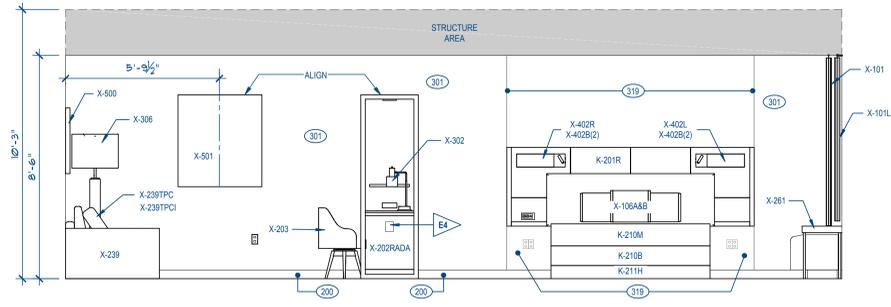


1 FIFTH FLOOR REFLECTED CEILING PLAN

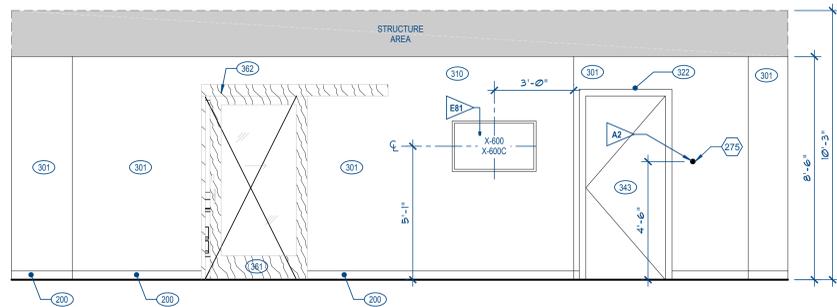
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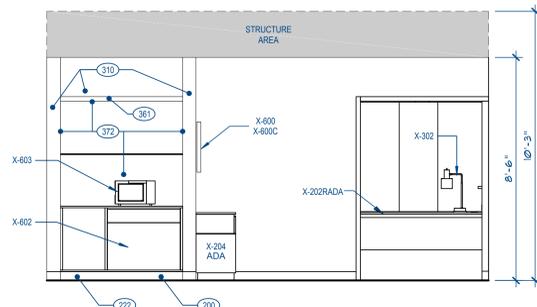
E ROOM ELEVATION
SCALE: 3/8" = 1'-0"



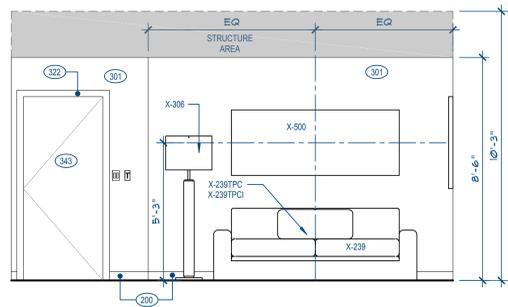
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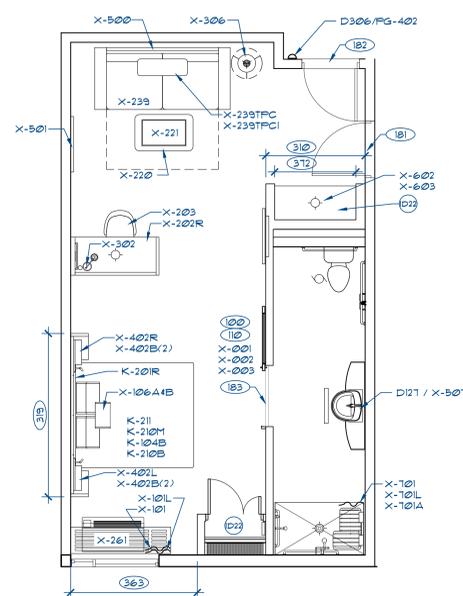
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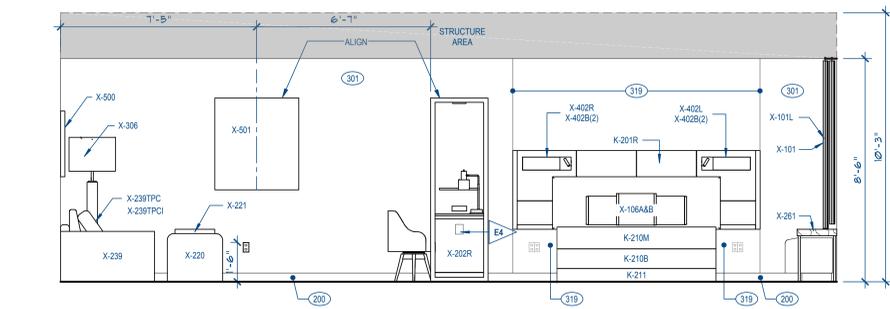


A ROOM ELEVATION
SCALE: 3/8" = 1'-0"

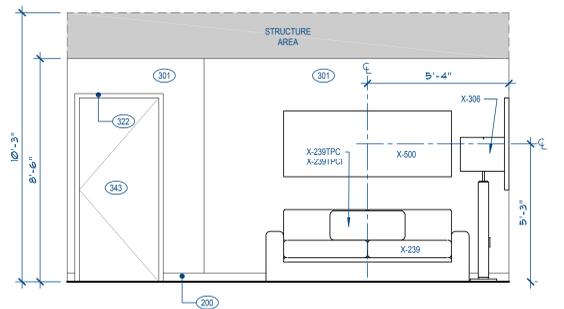


B ROOM ELEVATION
SCALE: 3/8" = 1'-0"

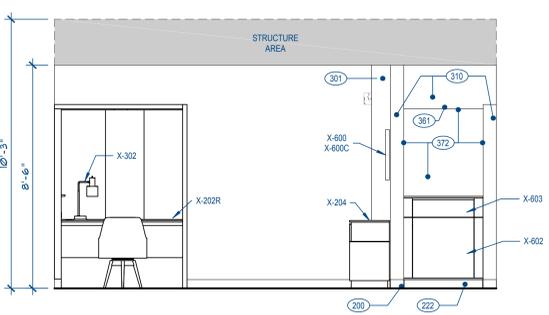




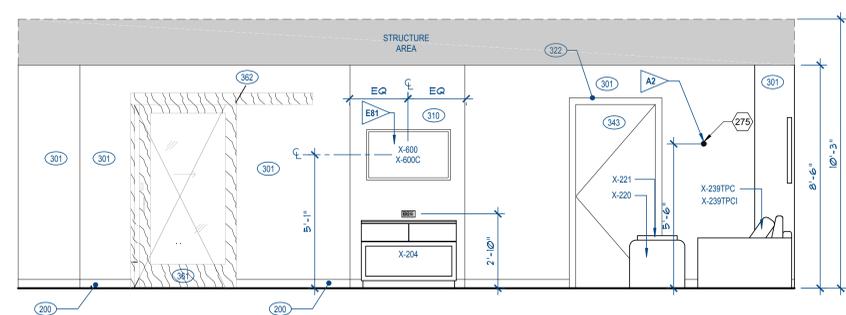
D ROOM ELEVATION
SCALE: 3/8" = 1'-0"



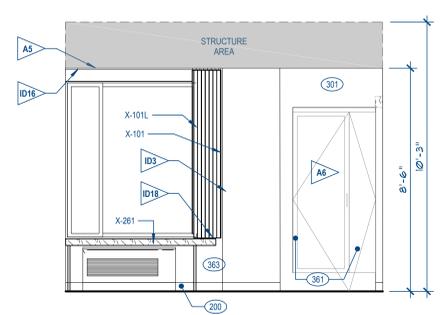
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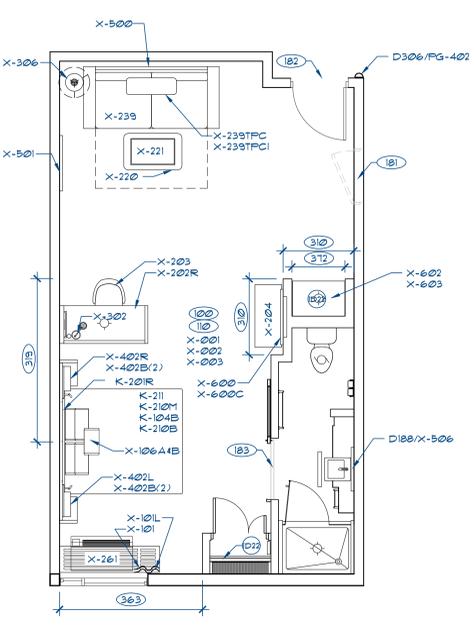
E ROOM ELEVATION
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B ROOM ELEVATION
SCALE: 3/8" = 1'-0"



A ROOM ELEVATION
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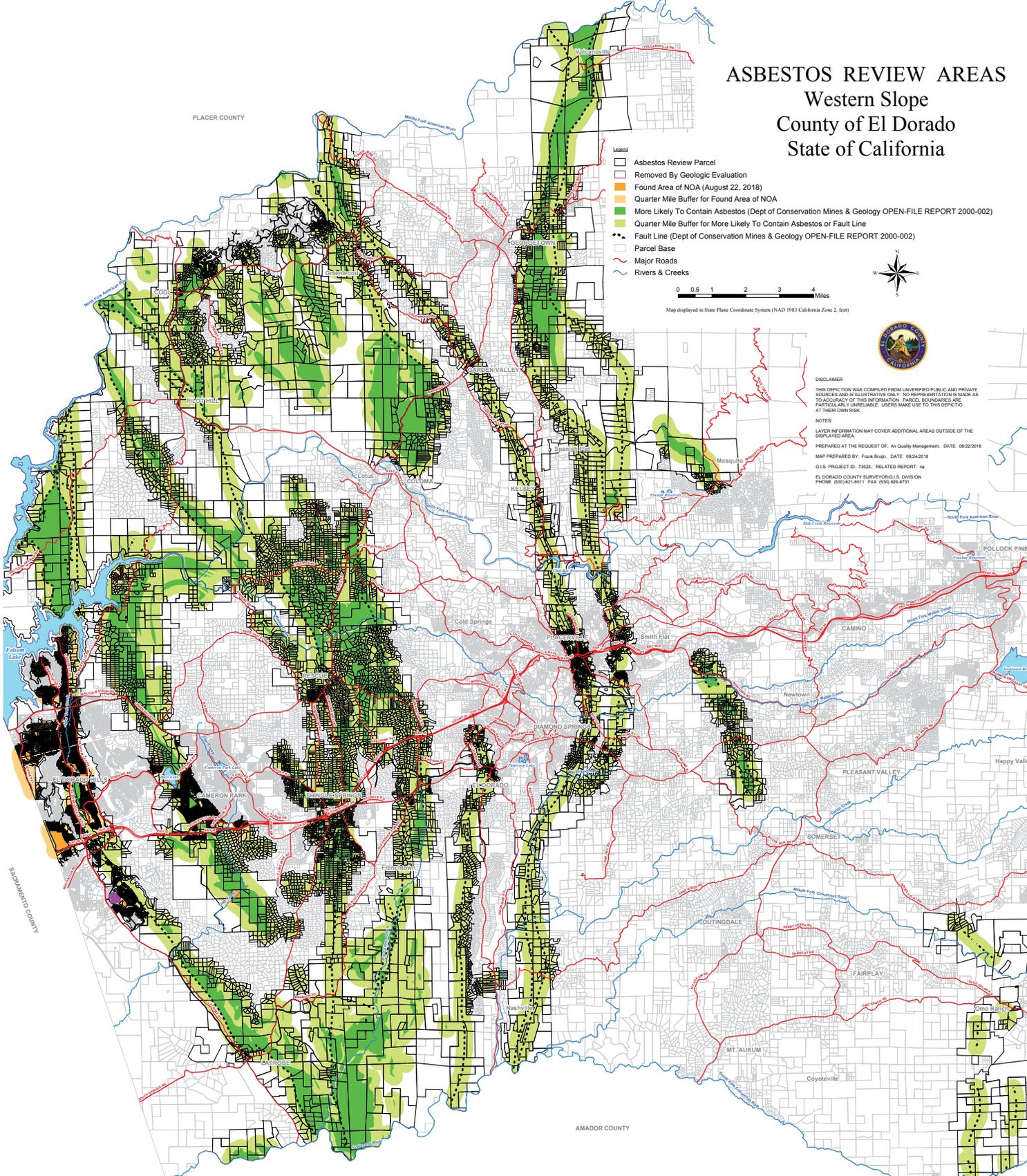


Appendix C

**Air Quality, Greenhous Gas and Energy
Modeling Data**

ASBESTOS REVIEW AREAS

Western Slope County of El Dorado State of California



- Asbestos Review Parcel
- Removed By Geologic Evaluation
- Found Area of NOA (August 22, 2018)
- Quarter Mile Buffer for Found Area of NOA
- More Likely To Contain Asbestos (Dept of Conservation Mines & Geology OPEN-FILE REPORT 2000-002)
- Quarter Mile Buffer for More Likely To Contain Asbestos or Fault Line
- Fault Line (Dept of Conservation Mines & Geology OPEN-FILE REPORT 2000-002)
- Parcel Base
- Major Roads
- Rivers & Creeks

0 0.5 1 2 3 4 Miles
Map displayed in State Plane Coordinate System (NAD 1983 California Zone 2, feet)



DISCLAIMER
THIS DEPICTION WAS COMPILED FROM UNVERIFIED PUBLIC AND PRIVATE SOURCES AND IS ILLUSTRATIVE ONLY. NO REPRESENTATION IS MADE AS TO ACCURACY OF THIS INFORMATION. PARCEL BOUNDARIES ARE PARTICULARLY UNRELIABLE. USERS MAKE USE TO THIS DEPICTION AT THEIR OWN RISK.

NOTES:
LAYER INFORMATION MAY COVER ADDITIONAL AREAS OUTSIDE OF THE DISPLAYED AREA.
PREPARED AT THE REQUEST OF: Air Quality Management. DATE: 08/22/2018
MAP PREPARED BY: Frank Bugh. DATE: 08/24/2018
GIS PROJECT ID: 79523. RELATED REPORT: n/a
EL DORADO COUNTY SURVEYOR/GIS DIVISION
PHONE: (930) 621-6511 FAX: (930) 628-8731

PLACER COUNTY

SACRAMENTO COUNTY

AMADOR COUNTY

Emissions Summary

Total and Annual Emissions Summary - Construction - Unmitigated (for AQ and GHG Analysis)

	tons										MT			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Total	3.46	18.00	12.37	0.03	1.69	0.65	2.34	0.74	0.61	1.35	2863.02	0.47	0.00	2875.70

	tons										MT			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Total Onsite	3.17	13.39	10.04	0.02	1.26	0.64	1.90	0.62	0.60	1.21	1561.96	0.44	0.00	1573.13
Total Offsite	0.32	4.85	2.58	0.01	0.63	0.03	0.66	0.17	0.02	0.19	1301.06	0.02	0.00	1302.58

	tons/year										MT/year			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Total 2020	1.18	14.19	8.91	0.02	1.61	0.49	2.10	0.70	0.45	1.16	2184.83	0.36	0.00	2194.77
Total 2021	1.63	3.31	2.97	0.01	0.28	0.14	0.42	0.08	0.13	0.21	565.50	0.08	0.00	567.60
Total 2022	0.68	0.74	0.74	0.00	0.01	0.04	0.04	0.00	0.03	0.04	112.69	0.03	0.00	113.34

	tons/year										MT/year			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
2020 Onsite	0.94	10.02	6.91	0.01	1.22	0.47	1.69	0.60	0.43	1.03	1113.18	0.34	0.00	1121.72
2020 Offsite	0.24	4.17	2.00	0.01	0.39	0.02	0.41	0.11	0.02	0.13	1071.65	0.02	0.00	1108.54
2021 Onsite	1.56	2.66	2.42	0.00	0.04	0.14	0.18	0.02	0.13	0.15	347.98	0.08	0.00	349.97
2021 Offsite	0.08	0.65	0.55	0.00	0.24	0.00	0.24	0.06	0.00	0.06	217.51	0.00	0.00	217.63
2022 Onsite	0.68	0.71	0.71	0.00	0.00	0.04	0.04	0.00	0.03	0.03	100.79	0.03	0.00	101.44
2022 Offsite	0.00	0.04	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	11.89	0.00	0.00	11.90

FOR HEALTH RISK ASSESSMENT

HRA Emissions Source	Construction Activity/ies	lb/year	
		Exhaust PM10	Exhaust PM2.5
Main Construction Area	On-Site Construction Activity (w/o off-site trenching)	400.14	372.01
Off-Site Vehicle Trips	Off-Site Vehicle Trips	16.69	15.34
Off-Site Sewer Pipeline Installation	Off-Site Trenching (w/o vehicle trips)	27.23	25.99
Total		444.07	413.33

lb/year needed to reduce unmitigated emissions by 45%	
Exhaust PM10	200.32
	16.69
	27.23
	244.24

Percent reduction from unmitigated PM 10 45%

SUMMARY OF MODELING RESULTS

PHASE 1

Site Preparation - 2020

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	0.0002		0.0110	0.0110		0.0101	0.0101	16.7153	0.0054	0.0000	16.8506
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0005	0.0003	0.0030	0.0000	0.0007	0.0000	0.0007	0.0002	0.0000	0.0002	0.6344	0.0000	0.0000	0.6349
Total	0.0209	0.2124	0.1106	0.0002	0.0910	0.0110	0.1020	0.0499	0.0101	0.0600	17.3497	0.0054	0.0000	17.4855
TOTAL ONSITE	0.0204	0.2121	0.1076	0.0002	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	16.7153	0.0054	0.0000	16.8506
TOTAL OFFSITE	0.0005	0.0003	0.0030	0.0000	0.0007	0.0000	0.0007	0.0002	0.0000	0.0002	0.6344	0.0000	0.0000	0.6349

Grading - 2020

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Fugitive Dust					0.9243	0.0000	0.9243	0.5041	0.0000	0.5041	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6764	7.6300	4.8577	0.0094		0.3304	0.3304		0.3040	0.3040	828.1613	0.2678	0.0000	834.8574
Hauling	0.0763	2.9799	0.8479	0.0071	0.1490	0.0118	0.1609	0.0407	0.0113	0.0521	677.2948	0.0087	0.0000	677.5115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	0.0094	0.1003	0.0002	0.0239	0.0002	0.0241	0.0064	0.0002	0.0065	21.4286	0.0007	0.0000	21.4457
Total	0.7678	10.6193	5.8059	0.0168	1.0972	0.3424	1.4397	0.5512	0.3155	0.8667	1526.8847	0.2772	0.0000	1533.8146
TOTAL ONSITE	0.6764	7.6300	4.8577	0.0094	0.9243	0.3304	1.2547	0.5041	0.3040	0.8081	828.1613	0.2678	0.0000	834.8574
TOTAL OFFSITE	0.0914	2.9893	0.9482	0.0074	0.1729	0.0120	0.1850	0.0471	0.0115	0.0586	698.7234	0.0094	0.0000	698.9572

Grading - 2021

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Fugitive Dust					0.0420	0.0000	0.0420	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.2552	0.1698	0.0003		0.0109	0.0109		0.0101	0.0101	29.9722	0.0097	0.0000	30.2146
Hauling	0.0026	0.1000	0.0288	0.0003	0.1152	0.0004	0.1155	0.0284	0.0004	0.0288	24.2693	0.0003	0.0000	24.2765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0005	0.0003	0.0033	0.0000	0.0009	0.0000	0.0009	0.0002	0.0000	0.0002	0.7491	0.0000	0.0000	0.7496
Total	0.0262	0.3555	0.2019	0.0006	0.1581	0.0113	0.1693	0.0478	0.0105	0.0583	54.9906	0.0100	0.0000	55.2407
TOTAL ONSITE	0.0231	0.2552	0.1698	0.0003	0.0420	0.0109	0.0529	0.0192	0.0101	0.0293	29.9722	0.0097	0.0000	30.2146
TOTAL OFFSITE	0.0031	0.1003	0.0321	0.0003	0.1161	0.0004	0.1164	0.0286	0.0004	0.0290	25.0184	0.0003	0.0000	25.0261

PHASE 1

Trenching - 2020

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0021	0.0190	0.0132	0.0000		0.0014	0.0014		0.0013	0.0013	1.4824	0.0005	0.0000	1.4944
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0001	0.0001	0.0005	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1057	0.0000	0.0000	0.1058
Total	0.0022	0.0191	0.0137	0.0000	0.0001	0.0014	0.0015	0.0000	0.0013	0.0013	1.5881	0.0005	0.0000	1.6002
TOTAL ONSITE	0.0021	0.0190	0.0132	0.0000	0.0000	0.0014	0.0014	0.0000	0.0013	0.0013	1.4824	0.0005	0.0000	1.4944
TOTAL OFFSITE	0.0001	0.0001	0.0005	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1057	0.0000	0.0000	0.1058

Road Construction Emissions Modeling - 2020

Unmitigated Construction

Sub-Phase	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing	0.0000	0.0000	0.0000	0.0000	0.0243	0.0000	0.0243	0.0051	0.0000	0.0051	0.0000	0.0000	0.0000	0.0000
Grading/Excavation	0.0173	0.1547	0.1506	0.0003	0.1094	0.0076	0.1170	0.0227	0.0070	0.0297	29.4083	0.0036	0.0015	29.9494
Drainage/Utilities/Sub-Gr	0.0122	0.0908	0.0680	0.0001	0.0729	0.0055	0.0784	0.0152	0.0050	0.0202	11.6106	0.0017	0.0007	11.8531
Paving	0.0078	0.0863	0.0540	0.0002	0.0000	0.0036	0.0036	0.0000	0.0031	0.0031	16.3726	0.0027	0.0012	16.8112
Total	0.0374	0.3317	0.2726	0.0007	0.2066	0.0167	0.2233	0.0430	0.0151	0.0581	57.3914	0.0080	0.0034	58.6137
TOTAL ONSITE	0.0302	0.2445	0.2448	0.0004	0.2066	0.0136	0.2202	0.0430	0.0130	0.0560	35.2126	0.0076	0.0003	35.4922
TOTAL OFFSITE	0.0071	0.0872	0.0279	0.0002	0.0000	0.0031	0.0031	0.0000	0.0021	0.0021	22.1789	0.0004	0.0031	58.6137

Building Construction - 2020

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.2120	1.9186	1.6849	0.0027		0.1117	0.1117		0.1050	0.1050	231.6100	0.0565	0.0000	233.0226
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.0282	0.3448	0.0022	0.0526	0.0059	0.0585	0.0152	0.0056	0.0208	206.2121	0.0042	0.0000	206.3179
Worker	0.1016	0.0629	0.6732	0.0016	0.1606	0.0013	0.1619	0.0427	0.0012	0.0439	143.7970	0.0046	0.0000	143.9117
Total	0.3483	3.0097	2.7029	0.0065	0.2132	0.1189	0.3321	0.0579	0.1118	0.1697	581.6191	0.0653	0.0000	583.2522
TOTAL ONSITE	0.2120	1.9186	1.6849	0.0027	0.0000	0.1117	0.1117	0.0000	0.1050	0.1050	231.6100	0.0565	0.0000	233.0226
TOTAL OFFSITE	0.1363	1.0911	1.0180	0.0038	0.2132	0.0072	0.2204	0.0579	0.0068	0.0647	350.0091	0.0088	0.0000	350.2296

Building Construction - 2021

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0951	0.8716	0.8288	0.0014		0.0479	0.0479		0.0451	0.0451	115.8186	0.0279	0.0000	116.5172
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.4680	0.1539	0.0011	0.0263	0.0014	0.0277	0.0076	0.0014	0.0090	102.3962	0.0018	0.0000	102.4422
Worker	0.0478	0.0283	0.3064	0.0008	0.0803	0.0006	0.0809	0.0214	0.0006	0.0219	69.4587	0.0021	0.0000	69.5100
Total	0.1570	1.3679	1.2891	0.0032	0.1066	0.0499	0.1565	0.0290	0.0470	0.0760	287.6735	0.0318	0.0000	288.4694
TOTAL ONSITE	0.0951	0.8716	0.8288	0.0014	0.0000	0.0479	0.0479	0.0000	0.0451	0.0451	115.8186	0.0279	0.0000	116.5172
TOTAL OFFSITE	0.0619	0.4963	0.4603	0.0019	0.1066	0.0020	0.1086	0.0290	0.0019	0.0309	171.8549	0.0039	0.0000	171.9522

Paving - 2021

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0126	0.1292	0.1465	0.0002		0.0068	0.0068		0.0062	0.0062	20.0235	0.0065	0.0000	20.1854
Paving	0.0093					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0007	0.0004	0.0045	0.0000	0.0012	0.0000	0.0012	0.0003	0.0000	0.0003	1.0215	0.0000	0.0000	1.0222
Total	0.0226	0.1296	0.1510	0.0002	0.0012	0.0068	0.0080	0.0003	0.0063	0.0066	21.0450	0.0065	0.0000	21.2076
TOTAL ONSITE	0.0219	0.1292	0.1465	0.0002	0.0000	0.0068	0.0068	0.0000	0.0062	0.0062	20.0235	0.0065	0.0000	20.1854
TOTAL OFFSITE	0.0100	0.0004	0.0045	0.0000	0.0012	0.0000	0.0012	0.0003	0.0000	0.0003	1.0215	0.0000	0.0000	1.0222

Architectural Coating - 2021

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Arch. Coating	1.24E+00					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0022	0.0153	0.0182	0.0000		0.0009	0.0009		0.0009	0.0009	2.5533	0.0002	0.0000	2.5576
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0019	0.0011	0.0123	0.0000	0.0032	0.0000	0.0033	0.0009	0.0000	0.0009	2.7920	0.0001	0.0000	2.7940
Total	1.2405	0.0164	0.0305	0.0001	0.0032	0.0010	0.0042	0.0009	0.0010	0.0018	5.3453	0.0003	0.0000	5.3516
TOTAL ONSITE	1.2386	0.0153	0.0182	0.0000	0.0000	0.0009	0.0009	0.0000	0.0009	0.0009	2.5533	0.0002	0.0000	2.5576
TOTAL OFFSITE	0.0019	0.0011	0.0123	0.0000	0.0032	0.0000	0.0033	0.0009	0.0000	0.0009	2.7920	0.0001	0.0000	2.7940

PHASE 2

Building Construction - 2021

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.1769	1.3864	1.2597	0.0022		0.0707	0.0707		0.0677	0.0677	179.6162	0.0353	0.0000	180.4996
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0015	0.0500	0.0164	0.0001	0.0028	0.0002	0.0030	0.0008	0.0001	0.0010	10.9349	0.0002	0.0000	10.9398
Worker	0.0041	0.0024	0.0260	0.0001	0.0068	0.0001	0.0069	0.0018	0.0001	0.0019	5.8904	0.0002	0.0000	5.8947
Total	0.1825	1.4388	1.3021	0.0024	0.0096	0.0709	0.0805	0.0026	0.0679	0.0705	196.4415	0.0357	0.0000	197.3341
TOTAL ONSITE	0.1769	1.3864	1.2597	0.0022	0.0000	0.0707	0.0707	0.0000	0.0677	0.0677	179.6162	0.0353	0.0000	180.4996
TOTAL OFFSITE	0.0056	0.0524	0.0424	0.0002	0.0096	0.0002	0.0098	0.0026	0.0002	0.0028	16.8253	0.0004	0.0000	16.8345

Building Construction - 2022

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0436	0.3432	0.3373	0.0006		0.0165	0.0165		0.0158	0.0158	48.8048	0.0094	0.0000	49.0402
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0004	0.0129	0.0042	0.0000	0.0008	0.0000	0.0008	0.0002	0.0000	0.0003	2.9492	0.0001	0.0000	2.9504
Worker	0.0010	0.0006	0.0065	0.0000	0.0019	0.0000	0.0019	0.0005	0.0000	0.0005	1.5435	0.0000	0.0000	1.5445
Total	0.0450	0.3567	0.3480	0.0006	0.0026	0.0166	0.0192	0.0007	0.0158	0.0166	53.2975	0.0095	0.0000	53.5351
TOTAL ONSITE	0.0436	0.3432	0.3373	0.0006	0.0000	0.0165	0.0165	0.0000	0.0158	0.0158	48.8048	0.0094	0.0000	49.0402
TOTAL OFFSITE	0.0014	0.0135	0.0107	0.0001	0.0026	0.0001	0.0027	0.0007	0.0000	0.0008	4.4927	0.0001	0.0000	4.4949

Architectural Coating - 2022

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Arch. Coating	0.3394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0010	0.0070	0.0091	0.0000		0.0004	0.0004		0.0004	0.0004	1.2766	0.0001	0.0000	1.2787
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0003	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0657	0.0000	0.0000	0.0657
Total	0.3405	0.0071	0.0093	0.0000	0.0001	0.0004	0.0005	0.0000	0.0004	0.0004	1.3423	0.0001	0.0000	1.3444
TOTAL ONSITE	0.3404	0.0070	0.0091	0.0000	0.0000	0.0004	0.0004	0.0000	0.0004	0.0004	1.2766	0.0001	0.0000	1.2787
TOTAL OFFSITE	0.0000	0.0000	0.0003	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0657	0.0000	0.0000	0.0657

PHASE 3

Building Construction - 2022

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0343	0.3513	0.3576	0.0006		0.0186	0.0186		0.0171	0.0171	50.0739	0.0162	0.0000	50.4787
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0007	0.0219	0.0072	0.0001	0.0013	0.0001	0.0014	0.0004	0.0001	0.0004	5.0198	0.0001	0.0000	5.0219
Worker	0.0016	0.0009	0.0096	0.0000	0.0028	0.0000	0.0028	0.0007	0.0000	0.0008	2.2988	0.0001	0.0000	2.3004
Total	0.0365	0.3741	0.3744	0.0007	0.0041	0.0187	0.0227	0.0011	0.0172	0.0183	57.3925	0.0163	0.0000	57.8010
TOTAL ONSITE	0.0343	0.3513	0.3576	0.0006	0.0000	0.0186	0.0186	0.0000	0.0171	0.0171	50.0739	0.0162	0.0000	50.4787
TOTAL OFFSITE	0.0022	0.0228	0.0168	0.0001	0.0041	0.0001	0.0041	0.0011	0.0001	0.0012	7.3186	0.0001	0.0000	7.3223

Architectural Coating - 2022

Unmitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Arch. Coating	0.2583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0005	0.0035	0.0045	0.0000		0.0002	0.0002		0.0002	0.0002	0.6383	0.0000	0.0000	0.6394
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0164	0.0000	0.0000	0.0164
Total	0.2588	0.0035	0.0046	0.0000	0.0000	0.0002	0.0002	0.0000	0.0002	0.0002	0.6547	0.0000	0.0000	0.6558
TOTAL ONSITE	0.2588	0.0035	0.0045	0.0000	0.0000	0.0002	0.0002	0.0000	0.0002	0.0002	0.6383	0.0000	0.0000	0.6394
TOTAL OFFSITE	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0164	0.0000	0.0000	0.0164

Max Daily Emissions Summary - Construction - Unmitigated (For HRA)

	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Max Daily	124.07	113.27	74.40	0.21	30.44	4.04	33.50	9.38	3.70	12.22

Max Daily by Year	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2020	9.91	113.27	74.40	0.21	15.48	4.04	19.52	5.49	3.70	9.19
2021	124.07	91.18	62.78	0.18	30.44	3.06	33.50	9.38	2.83	12.22
2022	103.51	15.16	14.82	0.03	0.12	0.70	0.82	0.03	0.68	0.71

Construction Schedule Assumptions

Phase Number	Construction Activity	Start Date	End Date	Num Days Week	Num Days	Simultaneous Construction Activity within Phase								
1	Site Preparation	1/1/2020	1/11/2020	6	10	x								
1	Grading	1/13/2020	1/13/2021	6	315		x	x	x	x	x			
1	Trenching (on-site)	5/1/2020	5/12/2020	6	10			x						
1	Trenching (off-site)	5/1/2020	8/1/2020	6	80			x	x					
1	Building Construction	5/13/2020	4/27/2021	6	300				x					
1	Paving	4/28/2021	5/20/2021	6	20							x		
1	Architectural Coating	5/21/2021	6/12/2021	6	20									x

Phase Number	Construction Activity	Start Date	End Date	Num Days Week	Num Days	Site Prep	Grading	Trenching	Bldg. Const.	Paving	Arch. Coating
2	Building Construction	6/14/2021	2/24/2022	6	220				x		
2	Architectural Coating	2/25/2022	3/8/2022	6	10						x

Phase Number	Construction Activity	Start Date	End Date	Num Days Week	Num Days	Site Prep	Grading	Trenching	Bldg. Const.	Paving	Arch. Coating
3	Building Construction	3/9/2022	7/2/2022	6	100				x		
3	Architectural Coating	7/4/2022	7/8/2022	6	5						x

FOR HEALTH RISK ASSESSMENT - Unmitigated Run

HRA Emissions Source	Max Construction Activity/ies	Max Hourly Emissions lb/hour	
		Exhaust PM10	Exhaust PM2.5
Main Construction Area	On-Site Grading + Building Construction Activity in 2020	0.4114	0.3813
Off-Site Vehicle Trips	Off-Site Grading + Building Construction + Trenching Vehicle Trips in 2020	0.0187	0.0178
Off-Site Sewer Pipeline Installation	Off-Site Trenching (w/o vehicle trips)	0.5949	0.5109

Note: Assumes 8 hours per day.

SUMMARY OF MODELING RESULTS

PHASE 1

Site Preparation - 2020

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0976	0.0486	0.6443	0.0015	0.1479	0.0011	0.1490	0.0392	0.0010	0.0403
Total	4.1741	42.4659	22.1579	0.0395	18.2142	2.1985	20.4127	9.9699	2.0226	11.9926
TOTAL ONSITE	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523
TOTAL OFFSITE	0.0976	0.0486	0.6443	0.0015	0.1479	0.0011	0.1490	0.0392	0.0010	0.0403

PHASE 1

Grading - 2020

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000
Hauling	0.4966	19.0155	5.4645	0.0472	1.0181	0.0773	1.0955	0.2772	0.0740	0.3511
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1084	0.0540	0.7159	0.0017	0.1643	0.0013	0.1655	0.0436	0.0012	0.0447
Total	5.0551	69.2670	38.1387	0.1109	7.2611	2.2525	9.5136	3.6371	2.0752	5.7121
TOTAL ONSITE	4.4501	50.1975	31.9583	0.0620	6.0787	2.1739	8.2526	3.3163	2.0000	5.3163
TOTAL OFFSITE	0.6050	19.0695	6.1804	0.0489	1.1824	0.0786	1.2610	0.3208	0.0752	0.3958

Grading - 2021

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265
Hauling	0.4711	17.6418	5.1257	0.0467	21.9788	0.0701	22.0489	5.4221	0.0670	5.4891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1021	0.0486	0.6541	0.0016	0.1643	0.0012	0.1655	0.0436	0.0011	0.0447
Total	4.7644	64.0902	36.6583	0.1103	28.2218	2.0566	30.2784	8.7820	1.8946	10.6766
TOTAL ONSITE	4.1912	46.3998	30.8785	0.0620	6.0787	1.9853	8.0640	3.3163	1.8265	5.1428
TOTAL OFFSITE	0.5732	17.6904	5.7798	0.0483	22.1431	0.0713	22.2144	5.4657	0.0681	5.5338

Trenching (On-site) - 2020

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	0.4197	3.7966	2.6363	0.0034		0.2843	0.2843		0.2615	0.2615
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0163	0.0081	0.1074	0.0003	0.0246	0.0002	0.0248	0.0065	0.0002	0.0067
Total	0.4360	3.8047	2.7437	0.0036	0.0246	0.2845	0.3091	0.0065	0.2617	0.2682
TOTAL ONSITE	0.4197	3.7966	2.6363	0.0034	0.0000	0.2843	0.2843	0.0000	0.2615	0.2615
TOTAL OFFSITE	0.0163	0.0081	0.1074	0.0003	0.0246	0.0002	0.0248	0.0065	0.0002	0.0067

Trenching (Off-site) - Road Construction Emissions Modeling - 2020

Unmitigated Construction

Sub-Phase (occurring at separate times)	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Grubbing/Land Clearing	0.0000	0.0000	0.0000	0.0000	6.0000	0.0000	6.0000	1.2480	0.0000	1.2480
Grading/Excavation	0.9507	8.4861	8.2633	0.0184	6.0000	0.4177	6.4177	1.2480	0.3836	1.6316
Drainage/Utilities/Sub-Grade	1.0028	7.4692	5.5979	0.0113	6.0000	0.4526	6.4526	1.2480	0.4113	1.6593
Paving	1.2920	14.2104	8.8880	0.0302	0.0000	0.5949	0.5949	0.0000	0.5109	0.5109
Max	1.2920	14.2104	8.8880	0.0302	6.0000	0.5949	6.5949	1.2480	0.5109	1.7589

Building Construction - 2020

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3402	10.0526	3.2240	0.0219	0.5450	0.0584	0.6033	0.1566	0.0558	0.2125
Worker	1.1058	0.5509	7.3019	0.0173	1.6758	0.0127	1.6885	0.4445	0.0117	0.4562
Total	3.5658	29.7895	27.3744	0.0661	2.2208	1.1882	3.4089	0.6011	1.1178	1.7190
TOTAL ONSITE	2.1198	19.1860	16.8485	0.0269	0.0000	1.1171	1.1171	0.0000	1.0503	1.0503
TOTAL OFFSITE	1.4460	10.6035	10.5259	0.0392	2.2208	0.0711	2.2918	0.6011	0.0675	0.6687

PHASE 1

Building Construction - 2021

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2767	9.1654	2.8750	0.0218	0.5450	0.0278	0.5728	0.1566	0.0266	0.1833
Worker	1.0412	0.4952	6.6713	0.0167	1.6758	0.0123	1.6881	0.4445	0.0113	0.4558
Total	3.2188	27.0927	26.1215	0.0654	2.2208	0.9987	3.2195	0.6011	0.9392	1.5404
TOTAL ONSITE	1.9009	17.4321	16.5752	0.0269	0.0000	0.9586	0.9586	0.0000	0.9013	0.9013
TOTAL OFFSITE	1.3179	9.6606	9.5463	0.0385	2.2208	0.0401	2.2609	0.6011	0.0379	0.6391

Paving - 2021

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235
Paving	0.9314					0.0000	0.0000		0.0000	0.0000
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0766	0.0364	0.4905	0.0012	0.1232	0.0009	0.1241	0.0327	0.0008	0.0335
Total	2.2636	12.9555	15.1437	0.0240	0.1232	0.6786	0.8018	0.0327	0.6243	0.6570
TOTAL ONSITE	2.1870	12.9191	14.6532	0.0228	0.0000	0.6777	0.6777	0.0000	0.6235	0.6235
TOTAL OFFSITE	1.0080	0.0364	0.4905	0.0012	0.1232	0.0009	0.1241	0.0327	0.0008	0.0335

Architectural Coating - 2021

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Arch. Coating	1.24E+02					0.0000	0.0000		0.0000	0.0000
Off-Road	0.2189	1.5268	1.8176	0.0030		0.0941	0.0941		0.0941	0.0941
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2093	0.0995	1.3408	0.0034	0.3368	0.0025	0.3393	0.0893	0.0023	0.0916
Total	124.0720	1.6263	3.1584	0.0063	0.3368	0.0966	0.4334	0.0893	0.0964	0.1857
TOTAL ONSITE	123.8627	1.5268	1.8176	0.0030	0.0000	0.0941	0.0941	0.0000	0.0941	0.0941
TOTAL OFFSITE	0.2093	0.0995	1.3408	0.0034	0.3368	0.0025	0.3393	0.0893	0.0023	0.0916

PHASE 2

Building Construction - 2021

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0171	0.5658	0.1775	0.0013	0.0336	0.0017	0.0354	0.0097	0.0016	0.0113
Worker	0.0510	0.0243	0.3270	0.0008	0.0822	0.0006	0.0828	0.0218	0.0006	0.0223
Total	2.1132	16.6176	15.0674	0.0272	0.1158	0.8196	0.9355	0.0315	0.7853	0.8167
TOTAL ONSITE	2.0451	16.0275	14.5629	0.0250	0.0000	0.8173	0.8173	0.0000	0.7831	0.7831
TOTAL OFFSITE	0.0681	0.5901	0.5045	0.0022	0.1158	0.0023	0.1182	0.0315	0.0022	0.0336

Building Construction - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5364	0.1671	0.0013	0.0336	0.0015	0.0352	0.0097	0.0015	0.0111
Worker	0.0482	0.0219	0.3004	0.0008	0.0822	0.0006	0.0827	0.0218	0.0005	0.0223
Total	1.9197	15.1623	14.8208	0.0271	0.1158	0.7043	0.8201	0.0315	0.6751	0.7065
TOTAL ONSITE	1.8555	14.6040	14.3533	0.0250	0.0000	0.7022	0.7022	0.0000	0.6731	0.6731
TOTAL OFFSITE	0.0642	0.5583	0.4675	0.0021	0.1158	0.0021	0.1179	0.0315	0.0020	0.0334

PHASE 2

Architectural Coating - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Arch. Coating	67.8749					0.0000	0.0000		0.0000	0.0000
Off-Road	0.2045	1.4085	1.8136	0.0030		0.0817	0.0817		0.0817	0.0817
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0096	0.0044	0.0601	0.0002	0.0164	0.0001	0.0166	0.0044	0.0001	0.0045
Total	68.0890	1.4129	1.8737	0.0031	0.0164	0.0818	0.0983	0.0044	0.0818	0.0862
TOTAL ONSITE	68.0794	1.4085	1.8136	0.0030	0.0000	0.0817	0.0817	0.0000	0.0817	0.0817
TOTAL OFFSITE	0.0096	0.0044	0.0601	0.0002	0.0164	0.0001	0.0166	0.0044	0.0001	0.0045

PHASE 3

Building Construction - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.4291	0.1337	0.0011	0.0269	0.0012	0.0281	0.0077	0.0012	0.0089
Worker	0.0337	0.0153	0.2103	0.0006	0.0575	0.0004	0.0579	0.0153	0.0004	0.0156
Total	0.7328	7.4702	7.4967	0.0130	0.0844	0.3735	0.4579	0.0230	0.3437	0.3667
TOTAL ONSITE	0.6863	7.0258	7.1527	0.0114	0.0000	0.3719	0.3719	0.0000	0.3422	0.3422
TOTAL OFFSITE	0.0465	0.4444	0.3440	0.0016	0.0844	0.0016	0.0860	0.0230	0.0015	0.0245

Architectural Coating - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Arch. Coating	103.3049					0.0000	0.0000		0.0000	0.0000
Off-Road	0.2045	1.4085	1.8136	0.0030		0.0817	0.0817		0.0817	0.0817
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0048	0.0022	0.0300	0.0001	0.0082	0.0001	0.0083	0.0022	0.0001	0.0022
Total	103.5142	1.4107	1.8436	0.0031	0.0082	0.0818	0.0900	0.0022	0.0818	0.0839
TOTAL ONSITE	103.5094	1.4085	1.8136	0.0030	0.0000	0.0817	0.0817	0.0000	0.0817	0.0817
TOTAL OFFSITE	0.0048	0.0022	0.0300	0.0001	0.0082	0.0001	0.0083	0.0022	0.0001	0.0022

Average Daily Emissions Summary - Construction - Unmitigated

Construction Schedule

	Start Date	End Date	Working Days (6 Days per week)	Hours per Day
2020	1/1/2020	12/31/2020	314	
2021	1/1/2021	12/31/2021	313	
2022	1/1/2022	7/8/2022	162	
Total Working Days	1/1/2020	7/8/2022	789	8

	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Average Daily Emissions (Calculated from total construction emissions)	8.76	45.62	31.36	0.08	4.28	1.65	5.93	1.88	1.54	3.42
EDCAQMD Threshold	82	82	NA	NA	NA	NA	NA	NA	NA	NA
Exceeds Threshold	No	No	NA	NA	NA	NA	NA	NA	NA	NA

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total Onsite	8.05	33.93	25.45	0.05	3.20	1.63	4.83	1.56	1.51	3.07
Total Offsite	0.82	12.31	6.53	0.04	1.60	0.06	1.66	0.43	0.06	0.49

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total 2020	7.49	90.40	56.72	0.15	10.24	3.12	13.37	4.47	2.89	7.36
Total 2021	10.41	21.14	19.01	0.04	1.78	0.89	2.67	0.52	0.85	1.36
Total 2022	8.40	9.15	9.09	0.02	0.08	0.44	0.53	0.02	0.42	0.44

Total and Annual Emissions Summary - Construction with Mitigation: Tier 4 engine for equipment >50hp

	tons										MT			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Total	2.50	6.44	12.85	0.03	1.69	0.09	1.77	0.74	0.09	0.83	2863.01	0.47	0.00	2875.70

	tons										MT			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Total Onsite	2.21	1.65	10.55	0.02	1.26	0.07	1.33	0.62	0.07	0.68	1561.96	0.44	0.00	1573.12
Total Offsite	0.32	4.85	2.58	0.01	0.63	0.03	0.66	0.17	0.02	0.19	1301.06	0.02	0.00	1302.58

	tons/year										MT/year			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Total 2020	0.43	5.03	9.18	0.02	1.61	0.05	1.66	0.70	0.05	0.75	2184.83	0.36	0.00	2194.76
Total 2021	1.45	1.29	3.16	0.01	0.28	0.03	0.31	0.08	0.03	0.11	565.50	0.08	0.00	567.60
Total 2022	0.63	0.19	0.79	0.00	0.01	0.01	0.01	0.00	0.01	0.01	112.69	0.03	0.00	113.34

	tons/year										MT/year			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
2020 Onsite	0.20	0.86	7.18	0.01	1.22	0.03	1.25	0.60	0.03	0.63	1113.18	0.34	0.00	1121.71
2020 Offsite	0.24	4.17	2.00	0.01	0.39	0.02	0.41	0.11	0.02	0.13	1071.65	0.02	0.00	1108.54
2021 Onsite	1.38	0.63	2.61	0.00	0.04	0.03	0.07	0.02	0.03	0.05	347.98	0.08	0.00	349.97
2021 Offsite	0.08	0.65	0.55	0.00	0.24	0.00	0.24	0.06	0.00	0.06	217.51	0.00	0.00	217.63
2022 Onsite	0.63	0.15	0.77	0.00	0.00	0.01	0.01	0.00	0.01	0.01	100.79	0.03	0.00	101.44
2022 Offsite	0.00	0.04	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	11.89	0.00	0.00	11.90

FOR HEALTH RISK ASSESSMENT

	HRA Emissions Source	Construction Activity/ies	lb/year	
			Exhaust PM10	Exhaust PM2.5
	Main Construction Area	On-Site Construction Activity (w/o off-site trenching)	37.25	37.37
	Off-Site Vehicle Trips	Off-Site Vehicle Trips	16.69	15.34
	Off-Site Sewer Pipeline Installation	Off-Site Trenching (w/o vehicle trips)	6.52	6.34

SUMMARY OF MODELING RESULTS

PHASE 1

Site Preparation - 2020

Mitigated Construction	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Category														
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0023	0.0101	0.1043	0.0002		0.0003	0.0003		0.0003	0.0003	16.7153	0.0054	0.0000	16.8506
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0005	0.0003	0.0030	0.0000	0.0007	0.0000	0.0007	0.0002	0.0000	0.0002	0.6344	0.0000	0.0000	0.6349
Total	0.0028	0.0104	0.1073	0.0002	0.0910	0.0003	0.0913	0.0499	0.0003	0.0502	17.3497	0.0054	0.0000	17.4855
TOTAL ONSITE	0.0023	0.0101	0.1043	0.0002	0.0903	0.0003	0.0906	0.0497	0.0003	0.0500	16.7153	0.0054	0.0000	16.8506
TOTAL OFFSITE	0.0005	0.0003	0.0030	0.0000	0.0007	0.0000	0.0007	0.0002	0.0000	0.0002	0.6344	0.0000	0.0000	0.6349

Grading - 2020

Mitigated Construction	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Category														
Fugitive Dust					0.9243	0.0000	0.9243	0.5041	0.0000	0.5041	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1158	0.5016	5.0159	0.0094		0.0154	0.0154		0.0154	0.0154	828.1603	0.2678	0.0000	834.8553
Hauling	0.0763	2.9799	0.8479	0.0071	0.1490	0.0118	0.1609	0.0407	0.0113	0.0521	677.2948	0.0087	0.0000	677.5116
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	0.0094	0.1003	0.0002	0.0239	0.0002	0.0241	0.0064	0.0002	0.0066	21.4286	0.0007	0.0000	21.4456
Total	0.2072	3.4909	5.9641	0.0168	1.0972	0.0274	1.1247	0.5512	0.0269	0.5781	1526.8837	0.2772	0.0000	1533.8125
TOTAL ONSITE	0.1158	0.5016	5.0159	0.0094	0.9243	0.0154	0.9397	0.5041	0.0154	0.5195	828.1603	0.2678	0.0000	834.8553
TOTAL OFFSITE	0.0914	2.9893	0.9482	0.0074	0.1729	0.0120	0.1850	0.0471	0.0115	0.0586	698.7234	0.0094	0.0000	698.9572

Grading - 2021

Mitigated Construction	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Category														
Fugitive Dust					0.0420	0.0000	0.0420	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0042	0.0182	0.1815	0.0003		0.0006	0.0006		0.0006	0.0006	29.9722	0.0097	0.0000	30.2145
Hauling	0.0026	0.1000	0.0288	0.0003	0.1152	0.0004	0.1155	0.0284	0.0004	0.0288	24.2693	0.0003	0.0000	24.2766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0005	0.0003	0.0033	0.0000	0.0009	0.0000	0.0009	0.0002	0.0000	0.0002	0.7491	0.0000	0.0000	0.7496
Total	0.0073	0.1185	0.2136	0.0006	0.1581	0.0010	0.1589	0.0478	0.0009	0.0488	54.9906	0.0100	0.0000	55.2406
TOTAL ONSITE	0.0042	0.0182	0.1815	0.0003	0.0420	0.0006	0.0426	0.0192	0.0006	0.0198	29.9722	0.0097	0.0000	30.2145
TOTAL OFFSITE	0.0031	0.1003	0.0321	0.0003	0.1161	0.0004	0.1164	0.0286	0.0004	0.0290	25.0184	0.0003	0.0000	25.0262

PHASE 1

Trenching - 2020

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0002	0.0009	0.0127	0.0000		0.0000	0.0000		0.0000	0.0000	1.4824	0.0005	0.0000	1.4944
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0001	0.0001	0.0005	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1057	0.0000	0.0000	0.1057
Total	0.0003	0.0009	0.0132	0.0000	0.0001	0.0000	0.0002	0.0000	0.0000	0.0001	1.5881	0.0005	0.0000	1.6001
TOTAL ONSITE	0.0002	0.0009	0.0127	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.4824	0.0005	0.0000	1.4944
TOTAL OFFSITE	0.0001	0.0001	0.0005	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.1057	0.0000	0.0000	0.1057

Road Construction Emissions Modeling - 2020

Mitigated Construction

Sub-Phase	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing	0.0000	0.0000	0.0000	0.0000	0.0243	0.0000	0.0243	0.0051	0.0000	0.0051	0.0000	0.0000	0.0000	0.0000
Grading/Excavation	0.0110	0.0621	0.1656	0.0003	0.1094	0.0024	0.1118	0.0227	0.0019	0.0247	29.4083	0.0036	0.0015	29.9494
Drainage/Utilities/Sub-Gr	0.0083	0.0471	0.0669	0.0001	0.0729	0.0022	0.0751	0.0152	0.0019	0.0171	11.6106	0.0017	0.0007	11.8531
Paving	0.0062	0.0470	0.0716	0.0002	0.0000	0.0018	0.0018	0.0000	0.0014	0.0014	16.3726	0.0027	0.0012	16.8112
Total	0.0255	0.1562	0.3041	0.0007	0.2066	0.0064	0.2129	0.0430	0.0053	0.0482	57.3914	0.0080	0.0034	58.6137
TOTAL ONSITE	0.0184	0.0690	0.2763	0.0004	0.2066	0.0033	0.2098	0.0430	0.0032	0.0461	35.2126	0.0076	0.0003	35.4922
TOTAL OFFSITE	0.0071	0.0872	0.0279	0.0002	0.0000	0.0031	0.0031	0.0000	0.0021	0.0021	22.1789	0.0004	0.0031	58.6137

Building Construction - 2020

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0626	0.2802	1.7730	0.0027		0.0125	0.0125		0.0125	0.0125	231.6097	0.0565	0.0000	233.0222
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.0282	0.3448	0.0022	0.0526	0.0059	0.0585	0.0152	0.0056	0.0208	206.2121	0.0042	0.0000	206.3179
Worker	0.1016	0.0629	0.6732	0.0016	0.1606	0.0013	0.1619	0.0427	0.0012	0.0439	143.7970	0.0046	0.0000	143.9118
Total	0.1989	1.3713	2.7910	0.0065	0.2132	0.0197	0.2329	0.0579	0.0193	0.0772	581.6188	0.0653	0.0000	583.2518
TOTAL ONSITE	0.0626	0.2802	1.7730	0.0027	0.0000	0.0125	0.0125	0.0000	0.0125	0.0125	231.6097	0.0565	0.0000	233.0222
TOTAL OFFSITE	0.1363	1.0911	1.0180	0.0038	0.2132	0.0072	0.2204	0.0579	0.0068	0.0647	350.0091	0.0088	0.0000	350.2296

Building Construction - 2021

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0293	0.1370	0.8841	0.0014		0.0056	0.0056		0.0056	0.0056	115.8185	0.0279	0.0000	116.5160
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.4680	0.1539	0.0011	0.0263	0.0014	0.0277	0.0076	0.0014	0.0090	102.3962	0.0018	0.0000	102.4422
Worker	0.0478	0.0283	0.3064	0.0008	0.0803	0.0006	0.0809	0.0214	0.0006	0.0219	69.4587	0.0021	0.0000	69.5100
Total	0.0912	0.6333	1.3444	0.0032	0.1066	0.0076	0.1142	0.0290	0.0075	0.0365	287.6734	0.0318	0.0000	288.4682
TOTAL ONSITE	0.0293	0.1370	0.8841	0.0014	0.0000	0.0056	0.0056	0.0000	0.0056	0.0056	115.8185	0.0279	0.0000	116.5160
TOTAL OFFSITE	0.0619	0.4963	0.4603	0.0019	0.1066	0.0020	0.1086	0.0290	0.0019	0.0309	171.8549	0.0039	0.0000	171.9522

Paving - 2021

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0028	0.0122	0.1730	0.0002		0.0004	0.0004		0.0004	0.0004	20.0235	0.0065	0.0000	20.1855
Paving	0.0093					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0007	0.0004	0.0045	0.0000	0.0012	0.0000	0.0012	0.0003	0.0000	0.0003	1.0215	0.0000	0.0000	1.0223
Total	0.0128	0.0126	0.1775	0.0002	0.0012	0.0004	0.0016	0.0003	0.0004	0.0007	21.0450	0.0065	0.0000	21.2078
TOTAL ONSITE	0.0121	0.0122	0.1730	0.0002	0.0000	0.0004	0.0004	0.0000	0.0004	0.0004	20.0235	0.0065	0.0000	20.1855
TOTAL OFFSITE	0.0100	0.0004	0.0045	0.0000	0.0012	0.0000	0.0012	0.0003	0.0000	0.0003	1.0215	0.0000	0.0000	1.0223

Architectural Coating - 2021

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Arch. Coating	1.2364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0003	0.0013	0.0183	0.0000		0.0000	0.0000		0.0000	0.0000	2.5533	0.0002	0.0000	2.5578
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0019	0.0011	0.0123	0.0000	0.0032	0.0000	0.0033	0.0009	0.0000	0.0009	2.7920	0.0001	0.0000	2.7940
Total	1.2386	0.0024	0.0306	0.0001	0.0032	0.0001	0.0033	0.0009	0.0001	0.0009	5.3453	0.0003	0.0000	5.3518
TOTAL ONSITE	1.2367	0.0013	0.0183	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5533	0.0002	0.0000	2.5578
TOTAL OFFSITE	0.0019	0.0011	0.0123	0.0000	0.0032	0.0000	0.0033	0.0009	0.0000	0.0009	2.7920	0.0001	0.0000	2.7940

PHASE 2

Building Construction - 2021

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0957	0.4658	1.3495	0.0022		0.0215	0.0215		0.0215	0.0215	179.6162	0.0353	0.0000	180.4987
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0015	0.0500	0.0164	0.0001	0.0028	0.0002	0.0030	0.0008	0.0001	0.0010	10.9349	0.0002	0.0000	10.9399
Worker	0.0041	0.0024	0.0260	0.0001	0.0068	0.0001	0.0069	0.0018	0.0001	0.0019	5.8904	0.0002	0.0000	5.8947
Total	0.1013	0.5182	1.3919	0.0024	0.0096	0.0217	0.0313	0.0026	0.0217	0.0243	196.4415	0.0357	0.0000	197.3333
TOTAL ONSITE	0.0957	0.4658	1.3495	0.0022	0.0000	0.0215	0.0215	0.0000	0.0215	0.0215	179.6162	0.0353	0.0000	180.4987
TOTAL OFFSITE	0.0056	0.0524	0.0424	0.0002	0.0096	0.0002	0.0098	0.0026	0.0002	0.0028	16.8253	0.0004	0.0000	16.8346

Building Construction - 2022

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0242	0.1233	0.3650	0.0006		0.0051	0.0051		0.0051	0.0051	48.8048	0.0094	0.0000	49.0403
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0004	0.0129	0.0042	0.0000	0.0008	0.0000	0.0008	0.0002	0.0000	0.0003	2.9492	0.0001	0.0000	2.9505
Worker	0.0010	0.0006	0.0065	0.0000	0.0019	0.0000	0.0019	0.0005	0.0000	0.0005	1.5435	0.0000	0.0000	1.5445
Total	0.0256	0.1368	0.3757	0.0006	0.0026	0.0052	0.0078	0.0007	0.0052	0.0059	53.2975	0.0095	0.0000	53.5353
TOTAL ONSITE	0.0242	0.1233	0.3650	0.0006	0.0000	0.0051	0.0051	0.0000	0.0051	0.0051	48.8048	0.0094	0.0000	49.0403
TOTAL OFFSITE	0.0014	0.0135	0.0107	0.0001	0.0026	0.0001	0.0027	0.0007	0.0000	0.0008	4.4927	0.0001	0.0000	4.4950

Architectural Coating - 2022

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Arch. Coating	0.3394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0002	0.0006	0.0092	0.0000		0.0000	0.0000		0.0000	0.0000	1.2766	0.0001	0.0000	1.2786
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0003	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0657	0.0000	0.0000	0.0657
Total	0.3396	0.0007	0.0094	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	1.3423	0.0001	0.0000	1.3443
TOTAL ONSITE	0.3396	0.0006	0.0092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.2766	0.0001	0.0000	1.2786
TOTAL OFFSITE	0.0000	0.0000	0.0003	0.0000	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0657	0.0000	0.0000	0.0657

PHASE 3

Building Construction - 2022

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Off-Road	0.0070	0.0303	0.3863	0.0006		0.0009	0.0009		0.0009	0.0009	50.0738	0.0162	0.0000	50.4788
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0007	0.0219	0.0072	0.0001	0.0013	0.0001	0.0014	0.0004	0.0001	0.0004	5.0198	0.0001	0.0000	5.0218
Worker	0.0016	0.0009	0.0096	0.0000	0.0028	0.0000	0.0028	0.0007	0.0000	0.0008	2.2988	0.0001	0.0000	2.3003
Total	0.0092	0.0531	0.4031	0.0007	0.0041	0.0010	0.0051	0.0011	0.0010	0.0021	57.3924	0.0163	0.0000	57.8009
TOTAL ONSITE	0.0070	0.0303	0.3863	0.0006	0.0000	0.0009	0.0009	0.0000	0.0009	0.0009	50.0738	0.0162	0.0000	50.4788
TOTAL OFFSITE	0.0022	0.0228	0.0168	0.0001	0.0041	0.0001	0.0041	0.0011	0.0001	0.0012	7.3186	0.0001	0.0000	7.3221

Architectural Coating - 2022

Mitigated Construction

Category	tons/yr										MT/yr			
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2	CH4	N2O	CO2e
Arch. Coating	0.2584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0001	0.0003	0.0046	0.0000		0.0000	0.0000		0.0000	0.0000	0.6383	0.0000	0.0000	0.6393
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0164	0.0000	0.0000	0.0164
Total	0.2584	0.0003	0.0047	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6547	0.0000	0.0000	0.6557
TOTAL ONSITE	0.2584	0.0003	0.0046	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6383	0.0000	0.0000	0.6393
TOTAL OFFSITE	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0164	0.0000	0.0000	0.0164

Max Daily Emissions Summary - Construction with Mitigation: Tier 4 engine for equipment >50hp

	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Max Daily	124.07	91.18	76.32	0.21	30.44	3.06	33.50	9.38	2.83	12.22

Max Daily by Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2020	4.73	49.99	76.32	0.21	15.48	0.97	16.45	5.49	0.88	6.37
2021	124.07	91.18	76.32	0.21	30.44	3.06	33.50	9.38	2.83	12.22
2022	103.34	5.81	16.00	0.03	0.12	0.22	0.34	0.03	0.22	0.25

0.00 17669.47
0.00 17543.57

Construction Schedule Assumptions

Phase Number	Construction Activity	Start Date	End Date	Num Days Week	Num Days	Simultaneous Construction Activity within Phase					
1	Site Preparation	1/1/2020	1/11/2020	6	10	x					
1	Grading	1/13/2020	1/13/2021	6	315		x	x	x	x	x
1	Trenching (on-site)	5/1/2020	5/12/2020	6	10			x			
1	Trenching (off-site)	5/1/2020	8/1/2020	6	80			x	x		
1	Building Construction	5/13/2020	4/27/2021	6	300				x		
1	Paving	4/28/2021	5/20/2021	6	20					x	
1	Architectural Coating	5/21/2021	6/12/2021	6	20						x

Phase Number	Construction Activity	Start Date	End Date	Num Days Week	Num Days	Site Prep	Grading	Trenching	BC	Paving	AC
2	Building Construction	6/14/2021	2/24/2022	6	220				x		
2	Architectural Coating	2/25/2022	3/8/2022	6	10						x

Phase Number	Construction Activity	Start Date	End Date	Num Days Week	Num Days	Site Prep	Grading	Trenching	BC	Paving	AC
3	Building Construction	3/9/2022	7/2/2022	6	100				x		
3	Architectural Coating	7/4/2022	7/8/2022	6	5						x

FOR HEALTH RISK ASSESSMENT - Mitigated Run

HRA Emissions Source	Max Construction Activity/ies	Max Hourly Emissions lb/hour	
		Exhaust PM10	Exhaust PM2.5
Main Construction Area	On-Site Grading + Building Construction Activity in 2020	0.0283	0.0283
Off-Site Vehicle Trips	Off-Site Grading + Building Construction + Trenching Vehicle Trips in 2020	0.0187	0.0178
Off-Site Sewer Pipeline Installation	Off-Site Trenching (w/o vehicle trips)	0.0744	0.0639

SUMMARY OF MODELING RESULTS

PHASE 1

Site Preparation - 2020

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307
Off-Road	0.4656	2.0175	20.8690	0.0380	0.0000	0.0621	0.0621	0.0000	0.0621	0.0621
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0976	0.0486	0.6443	0.0015	0.1479	0.0011	0.1490	0.0392	0.0010	0.0403
Total	0.5632	2.0661	21.5133	0.0395	18.2142	0.0632	18.2774	9.9699	0.0631	10.0331

TOTAL ONSITE	0.4656	2.0175	20.8690	0.0380	18.0663	0.0621	18.1284	9.9307	0.0621	9.9928
TOTAL OFFSITE	0.0976	0.0486	0.6443	0.0015	0.1479	0.0011	0.1490	0.0392	0.0010	0.0403

PHASE 1

Grading - 2020

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015
Hauling	0.4966	19.0155	5.4645	0.0472	1.0181	0.0773	1.0955	0.2772	0.0740	0.3511
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1084	0.0540	0.7159	0.0017	0.1643	0.0013	0.1655	0.0436	0.0012	0.0447
Total	1.3666	22.3695	39.1795	0.1109	7.2611	0.1801	7.4412	3.6371	0.1767	3.8136
TOTAL ONSITE	0.7616	3.3000	32.9991	0.0620	6.0787	0.1015	6.1802	3.3163	0.1015	3.4178
TOTAL OFFSITE	0.6050	19.0695	6.1804	0.0489	1.1824	0.0786	1.2610	0.3208	0.0752	0.3958

Grading - 2021

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015
Hauling	0.4711	17.6418	5.1257	0.0467	21.9788	0.0701	22.0489	5.4221	0.0670	5.4891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1021	0.0486	0.6541	0.0016	0.1643	0.0012	0.1655	0.0436	0.0011	0.0447
Total	1.3348	20.9904	38.7789	0.1103	28.2218	0.1728	28.3946	8.7820	0.1696	8.9516
TOTAL ONSITE	0.7616	3.3000	32.9991	0.0620	6.0787	0.1015	6.1802	3.3163	0.1015	3.4178
TOTAL OFFSITE	0.5732	17.6904	5.7798	0.0483	22.1431	0.0713	22.2144	5.4657	0.0681	5.5338

Trenching (On-site) - 2020

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	0.0413	0.1788	2.5450	0.0034		0.0055	0.0055		0.0055	0.0055
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0163	0.0081	0.1074	0.0003	0.0246	0.0002	0.0248	0.0065	0.0002	0.0067
Total	0.0576	0.1869	2.6524	0.0036	0.0246	0.0057	0.0303	0.0065	0.0057	0.0122
TOTAL ONSITE	0.0413	0.1788	2.5450	0.0034	0.0000	0.0055	0.0055	0.0000	0.0055	0.0055
TOTAL OFFSITE	0.0163	0.0081	0.1074	0.0003	0.0246	0.0002	0.0248	0.0065	0.0002	0.0067

Trenching (Off-site) - Road Construction Emissions Modeling - 2020

Mitigated Construction

Sub-Phase (occurring at separate times)	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Grubbing/Land Clearing	0.0000	0.0000	0.0000	1.2480	6.0000	0.0000	6.0000	1.2480	0.0000	1.2480
Grading/Excavation	0.6023	3.4054	9.0856	1.3550	6.0000	0.1342	6.1342	1.2480	0.1070	1.3550
Drainage/Utilities/Sub-Grade	0.6861	3.8790	5.5066	1.4073	6.0000	0.1787	6.1787	1.2480	0.1593	1.4073
Paving	1.0196	7.7338	11.7898	0.2277	0.0000	0.2881	0.2881	0.0000	0.2277	0.2277
Max	1.2920	14.2104	8.8880	0.0302	6.0000	0.5949	6.5949	1.2480	0.5109	1.7589

Building Construction - 2020

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3402	10.0526	3.2240	0.0219	0.5450	0.0584	0.6033	0.1566	0.0558	0.2125
Worker	1.1058	0.5509	7.3019	0.0173	1.6758	0.0127	1.6885	0.4445	0.0117	0.4562
Total	2.0721	13.4056	28.2563	0.0661	2.2208	0.1959	2.4166	0.6011	0.1923	0.7935
TOTAL ONSITE	0.6261	2.8021	17.7304	0.0269	0.0000	0.1248	0.1248	0.0000	0.1248	0.1248
TOTAL OFFSITE	1.4460	10.6035	10.5259	0.0392	2.2208	0.0711	2.2918	0.6011	0.0675	0.6687

PHASE 1

Building Construction - 2021

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2767	9.1654	2.8750	0.0218	0.5450	0.0278	0.5728	0.1566	0.0266	0.1833
Worker	1.0412	0.4952	6.6713	0.0167	1.6758	0.0123	1.6881	0.4445	0.0113	0.4558
Total	1.9046	12.4002	27.2285	0.0654	2.2208	0.1521	2.3729	0.6011	0.1499	0.7511
TOTAL ONSITE	0.5867	2.7396	17.6822	0.0269	0.0000	0.1120	0.1120	0.0000	0.1120	0.1120
TOTAL OFFSITE	1.3179	9.6606	9.5463	0.0385	2.2208	0.0401	2.2609	0.6011	0.0379	0.6391

Paving - 2021

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374
Paving	0.9314					0.0000	0.0000		0.0000	0.0000
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0766	0.0364	0.4905	0.0012	0.1232	0.0009	0.1241	0.0327	0.0008	0.0335
Total	1.2885	1.2518	17.7862	0.0240	0.1232	0.0383	0.1615	0.0327	0.0382	0.0709
TOTAL ONSITE	1.2119	1.2154	17.2957	0.0228	0.0000	0.0374	0.0374	0.0000	0.0374	0.0374
TOTAL OFFSITE	1.0080	0.0364	0.4905	0.0012	0.1232	0.0009	0.1241	0.0327	0.0008	0.0335

Architectural Coating - 2021

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Arch. Coating	1.24E+02					0.0000	0.0000		0.0000	0.0000
Off-Road	0.0297	0.1288	1.8324	0.0030		0.0040	0.0040		0.0040	0.0040
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2093	0.0995	1.3408	0.0034	0.3368	0.0025	0.3393	0.0893	0.0023	0.0916
Total	123.8828	0.2283	3.1732	0.0063	0.3368	0.0064	0.3433	0.0893	0.0062	0.0956
TOTAL ONSITE	123.6735	0.1288	1.8324	0.0030	0.0000	0.0040	0.0040	0.0000	0.0040	0.0040
TOTAL OFFSITE	0.2093	0.0995	1.3408	0.0034	0.3368	0.0025	0.3393	0.0893	0.0023	0.0916

PHASE 2

Building Construction - 2021

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	1.1061	5.3852	15.6014	0.0250		0.2488	0.2488		0.2488	0.2488
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0171	0.5658	0.1775	0.0013	0.0336	0.0017	0.0354	0.0097	0.0016	0.0113
Worker	0.0510	0.0243	0.3270	0.0008	0.0822	0.0006	0.0828	0.0218	0.0006	0.0223
Total	1.1742	5.9753	16.1059	0.0272	0.1158	0.2511	0.3670	0.0315	0.2510	0.2824
TOTAL ONSITE	1.1061	5.3852	15.6014	0.0250	0.0000	0.2488	0.2488	0.0000	0.2488	0.2488
TOTAL OFFSITE	0.0681	0.5901	0.5045	0.0022	0.1158	0.0023	0.1182	0.0315	0.0022	0.0336

Building Construction - 2022

Mitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	1.0283	5.2472	15.5324	0.0250		0.2181	0.2181		0.2181	0.2181
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0160	0.5364	0.1671	0.0013	0.0336	0.0015	0.0352	0.0097	0.0015	0.0111
Worker	0.0482	0.0219	0.3004	0.0008	0.0822	0.0006	0.0827	0.0218	0.0005	0.0223
Total	1.0925	5.8055	15.9999	0.0271	0.1158	0.2202	0.3360	0.0315	0.2201	0.2515
TOTAL ONSITE	1.0283	5.2472	15.5324	0.0250	0.0000	0.2181	0.2181	0.0000	0.2181	0.2181
TOTAL OFFSITE	0.0642	0.5583	0.4675	0.0021	0.1158	0.0021	0.1179	0.0315	0.0020	0.0334

Architectural Coating - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Arch. Coating	67.8749					0.0000	0.0000		0.0000	0.0000
Off-Road	0.0297	0.1288	1.8324	0.0030		0.0040	0.0040		0.0040	0.0040
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0096	0.0044	0.0601	0.0002	0.0164	0.0001	0.0166	0.0044	0.0001	0.0045
Total	67.9142	0.1332	1.8925	0.0031	0.0164	0.0041	0.0206	0.0044	0.0041	0.0084
TOTAL ONSITE	67.9046	0.1288	1.8324	0.0030	0.0000	0.0040	0.0040	0.0000	0.0040	0.0040
TOTAL OFFSITE	0.0096	0.0044	0.0601	0.0002	0.0164	0.0001	0.0166	0.0044	0.0001	0.0045

PHASE 3

Building Construction - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road	-0.6207	-8.4612	8.3509	0.0114		-0.4917	-0.4917		-0.4485	-0.4485
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0128	0.4291	0.1337	0.0011	0.0269	0.0012	0.0281	0.0077	0.0012	0.0089
Worker	0.0337	0.0153	0.2103	0.0006	0.0575	0.0004	0.0579	0.0153	0.0004	0.0156
Total	-0.5742	-8.0168	8.6949	0.0130	0.0844	-0.4901	-0.4057	0.0230	-0.4470	-0.4240
TOTAL ONSITE	-0.6207	-8.4612	8.3509	0.0114	0.0000	-0.4917	-0.4917	0.0000	-0.4485	-0.4485
TOTAL OFFSITE	0.0465	0.4444	0.3440	0.0016	0.0844	0.0016	0.0860	0.0230	0.0015	0.0245

Architectural Coating - 2022

Unmitigated Construction

Category	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Arch. Coating	103.3049					0.0000	0.0000		0.0000	0.0000
Off-Road	0.0297	0.1288	1.8324	0.0030		0.0040	0.0040		0.0040	0.0040
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0048	0.0022	0.0300	0.0001	0.0082	0.0001	0.0083	0.0022	0.0001	0.0022
Total	103.3394	0.1310	1.8624	0.0031	0.0082	0.0040	0.0122	0.0022	0.0040	0.0062
TOTAL ONSITE	103.3346	0.1288	1.8324	0.0030	0.0000	0.0040	0.0040	0.0000	0.0040	0.0040
TOTAL OFFSITE	0.0048	0.0022	0.0300	0.0001	0.0082	0.0001	0.0083	0.0022	0.0001	0.0022

Average Daily Emissions Summary - Construction with Mitigation: Tier 4 engine for equipment >50hp

Construction Schedule

	Start Date	End Date	Working Days (6 Days per week)	Hours per Day
Total Working Days	1/1/2020	7/8/2022	789	8

	lb/day									
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Average Daily Emissions (Calculated from total construction emissions)	6.34	16.32	32.58	0.08	4.28	0.22	4.50	1.88	0.22	2.10
EDCAQMD Threshold	82	82	NA	NA	NA	NA	NA	NA	NA	NA
Exceeds Threshold	No	No	NA	NA	NA	NA	NA	NA	NA	NA

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total Onsite	5.59	4.18	26.75	0.05	3.20	0.17	3.37	1.56	0.17	1.73
Total Offsite	0.82	12.31	6.53	0.04	1.60	0.06	1.66	0.43	0.06	0.49

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total 2020	1.10	12.75	23.27	0.06	4.08	0.14	4.21	1.78	0.13	1.91
Total 2021	3.68	3.26	8.01	0.02	0.71	0.08	0.78	0.20	0.08	0.28
Total 2022	1.60	0.48	2.01	0.00	0.02	0.02	0.03	0.00	0.02	0.02

Criteria Air Pollutant Emissions Summary - Operations 2023 - Annual Emissions

Proposed Project - Total Annual Emission 2023 (tons/yr)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area	0.7887	5.00E-05	5.55E-03	0.00E+00		2.00E-05	2.00E-05		2.00E-05	2.00E-05
Energy	1.87E-02	0.1702	0.1429	1.02E-03		1.29E-02	1.29E-02		1.29E-02	1.29E-02
Mobile	1.0662	2.747	9.4042	2.31E-02	2.0597	2.35E-02	2.0833	0.5522	2.20E-02	0.5742
Stationary	3.80E-04	1.08E-03	9.80E-04	0		6.00E-05	6.00E-05		6.00E-05	6.00E-05
Waste Generation						0	0		0	0
Water/Wastewater						0.00	0.00		0.00	0.00
Total	1.87	2.92	9.55	0.02	2.06	0.04	2.10	0.55	0.03	0.59

Criteria Air Pollutant Emissions Summary - Operations 2023 - Daily Emissions

Proposed Project - Daily Emission (lb/day)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area	4	0	0	0	0	0	0	0	0	0
Energy	0	1	1	0	0	0	0	0	0	0
Mobile	6	15	52	0	11	0	11	3	0	3
Stationary	0	0	0	0	0	0	0	0	0	0
Waste Generation	0	0	0	0	0	0	0	0	0	0
Water/Wastewater	0	0	0	0	0	0	0	0	0	0
Total	10	16	52	0	11	0	11	3	0	3
EDCAQMD Threshold (Daily)	82	82	NA	NA	NA	NA	NA	NA	NA	NA
Exceeds Threshold	No	No	NA	NA	NA	NA	NA	NA	NA	NA

Note: Annual emissions divided by 365 days/year to obtain average daily emissions.

Greenhouse Gas Emissions Summary - Operations 2023

Proposed Project - 2023 (MT/yr)

	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	Percent of Total
Area	0	1.08E-02	1.08E-02	3.00E-05	0	0.01	0%
Electricity	0	0.00	678.53	3.07E-02	6.34E-03	681.19	24%
Natural Gas	0	185.24	185.24	3.55E-03	3.41E-03	186.34	7%
Mobile	0	2,097.82	2,097.82	7.47E-02	0	2,099.69	74%
Stationary	0	0.1786	0.1786	3.00E-05	0	0.18	0%
Waste Generation	88.8816	0	88.8816	5.25E+00	0.00E+00	220.20	8%
Water/Wastewater	2	10	12	0	0	13.63	0%
Vegetation Sequestration	-	-	-	-	-	-358.96	-13%
Total	91.0387	2293.1056	3062.679	5.36968	0.01453	2,842.29	100%

Proposed Project - 2023 (MT/yr) With Mitigation

	Reductions CO2e	Mitigated Emissions CO2e
Area	0.00	0.01
Electricity	681.19	0.00
Natural Gas	18.79	167.55
Mobile	379.00	1720.69
Stationary	0.00	0.18
Waste Generation	0.00	220.20
Water/Wastewater	0.00	13.63
Vegetation Sequestration	0.00	-358.96
Purchased Offsets	1763.3083	-1763.31
Total	2842.29	0.00

Calculated Trip Rate

Vehicle Trips Land Use Sub Type	Vehicle Trips Land Use Size Metric	Land Use Unit Amount	Weekday					Saturday					Sunday				
			CalEEMod Default Trip Rate	ADT	Portion of Total Trips	Adjusted ADT	Adjusted Trip Rate	CalEEMod Default Trip Rate	ADT	Portion of Total Trips	Adjusted ADT	Adjusted Trip Rate	CalEEMod Default	ADT	Portion of Total Trips	Adjusted ADT	Adjusted Trip Rate
Arena	1000sqft	5.5	10.71	58.91	1%	28.89	5.25	10.71	58.91	0%	20.65	3.76	10.71	58.91	1%	25.55	4.65
City Park	Acre	2.9	1.89	5.48	0%	2.69	0.93	22.75	65.98	1%	23.13	7.98	16.74	48.55	0%	21.06	7.26
Fast Food Restaurant with Drive Thru	1000sqft	3.67	496.12	1820.76	20%	893.11	243.35	722.03	2649.85	21%	929.15	253.17	542.72	1991.78	20%	863.99	235.42
General Office Building	1000sqft	18.19	11.03	200.64	2%	98.41	5.41	2.46	44.75	0%	15.69	0.86	1.05	19.10	0%	8.28	0.46
High Turnover (Sit Down Restaurant)	1000sqft	9.91	127.15	1260.06	14%	618.08	62.37	158.37	1569.45	13%	550.31	55.53	131.84	1306.53	13%	566.75	57.19
Hotel	Room	100	8.17	817.00	9%	400.75	4.01	8.19	819.00	7%	287.18	2.87	5.95	595.00	6%	258.10	2.58
Other Asphalt Surfaces	1000sqft	206.97	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%	0.00	0.00
Other Non-Asphalt Surfaces	1000sqft	89.29	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%	0.00	0.00
Parking Lot	1000sqft	102.89	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%	0.00	0.00	0.00	0.00	0%	0.00	0.00
Quality Restaurant	1000sqft	3.5	89.95	314.83	4%	154.43	44.12	94.36	330.26	3%	115.80	33.09	72.16	252.56	3%	109.55	31.30
Regional Shopping Center	1000sqft	31.78	42.70	1357.01	15%	665.63	20.95	49.97	1588.05	13%	556.84	17.52	25.24	802.13	8%	347.94	10.95
Supermarket	1000sqft	29.97	102.24	3064.13	34%	1503.00	50.15	177.59	5322.37	43%	1866.25	62.27	166.44	4988.21	50%	2163.77	72.20
				8898.80		4365.00			12448.60		4365.00			10062.76		4365.00	

Kimly-Horn Traffic Study ADT

4,365

Project Energy Use and Solar Calculation

Default Electricity Usage Rates by Land Use Type

CalEEMod Land Use Type	Electricity Use (kWh/year)	
Arena	22,517	
City Park	0	
Fast Food Restaurant with Drive Thru	85,768	
General Office Building	146,514	
General Office Building	34,899	
High Turnover (Sit Down Restaurant)	231,527	
Hotel	308,704	
Other Asphalt Surfaces	0	
Other Non- Asphalt Surfaces	0	
Parking Lot	36,012	
Quality Restaurant	81,795	
Regional Shopping Center	381,852	
Supermarket	1,002,860	
TOTAL	2,332,447	kwh/yr
	6,390	kwh/day

Solar PV Calculation

		Source
Required Solar Electricity Generation (MWh/year)	2,332.45	Calculated
Matching PV rating (kW) from NREL PV Calculator for El Dorado Hills	1,480	Calculated
sq meter of PV per kW	1	Assumption in PV Watts Calculator
sqft per sq meter	10.76	Conversion
Module efficiency	16%	Assumption in PV Watts Calculator
PV area needed (sf)	99,566	Calculated
Tilt Degree	20	Assumption in PV Watts Calculator
Footprint of PV area needed (sqft)	93,562	Calculated

Source: <http://pvwatts.nrel.gov/pvwatts.php>

GHG Emission Assumptions

Category	Value	Notes	Source
GWP			
CO2	1		
CH4	25	IPCC Fourth Assessment Report	Consistent with CARB GHG Inventory Assumptions
N2O	298	IPCC Fourth Assessment Report	Consistent with CARB GHG Inventory Assumptions

CalEEMod Outputs

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Montano - Construction Phase 1
El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	4.71	1000sqft	0.11	4,710.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	4.34	1000sqft	0.10	4,340.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Project Characteristics -

Land Use - Adjusted hotel acreage based on 4-story building

Construction Phase - Adjusted grading phasing to one year

Off-road Equipment -

Off-road Equipment - No Demo

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added trenching equipment since defaults are not provided

Grading - Adjusted total acres graded

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	315.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	787.50	16.80
tblGrading	MaterialExported	0.00	140,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LotAcreage	3.33	0.25
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

2.0 Emissions Summary

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.7593	2.7593
2	4-1-2020	6-30-2020	3.6208	3.6208
3	7-1-2020	9-30-2020	4.2456	4.2456
4	10-1-2020	12-31-2020	4.2878	4.2878
5	1-1-2021	3-31-2021	1.5692	1.5692
6	4-1-2021	6-30-2021	1.7398	1.7398
		Highest	4.2878	4.2878

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Energy	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	689.3995	689.3995	0.0267	7.9800e-003	692.4449
Mobile	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.6144	3,391.6144	0.1230	0.0000	3,394.6883
Waste						0.0000	0.0000		0.0000	0.0000	67.6183	0.0000	67.6183	3.9961	0.0000	167.5215
Water						0.0000	0.0000		0.0000	0.0000	3.4202	18.1964	21.6166	0.3521	8.4600e-003	32.9418
Total	2.3548	4.7290	15.7353	0.0382	3.3111	0.0503	3.3614	0.8877	0.0477	0.9354	71.0385	4,099.2201	4,170.2586	4.4980	0.0164	4,287.6069

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Energy	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	689.3995	689.3995	0.0267	7.9800e-003	692.4449
Mobile	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.6144	3,391.6144	0.1230	0.0000	3,394.6883
Waste						0.0000	0.0000		0.0000	0.0000	67.6183	0.0000	67.6183	3.9961	0.0000	167.5215
Water						0.0000	0.0000		0.0000	0.0000	3.4202	18.1964	21.6166	0.3521	8.4600e-003	32.9418
Total	2.3548	4.7290	15.7353	0.0382	3.3111	0.0503	3.3614	0.8877	0.0477	0.9354	71.0385	4,099.2201	4,170.2586	4.4980	0.0164	4,287.6069

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	6	0	
2	Site Preparation	Site Preparation	1/1/2020	1/11/2020	6	10	
3	Grading	Grading	1/13/2020	1/13/2021	6	315	
4	Trenching	Trenching	5/1/2020	5/12/2020	6	10	
5	Building Construction	Building Construction	5/13/2020	4/27/2021	6	300	
6	Paving	Paving	4/28/2021	5/20/2021	6	20	
7	Architectural Coating	Architectural Coating	5/21/2021	6/12/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 16.8

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 142,095; Non-Residential Outdoor: 47,365; Striped Parking Area: 23,949 (Architectural Coating – sqft)

OffRoad Equipment

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	18,094.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349
Total	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349
Total	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9243	0.0000	0.9243	0.5041	0.0000	0.5041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6764	7.6300	4.8577	9.4200e-003		0.3304	0.3304		0.3040	0.3040	0.0000	828.1613	828.1613	0.2678	0.0000	834.8574
Total	0.6764	7.6300	4.8577	9.4200e-003	0.9243	0.3304	1.2547	0.5041	0.3040	0.8081	0.0000	828.1613	828.1613	0.2678	0.0000	834.8574

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0763	2.9799	0.8479	7.1400e-003	0.1490	0.0118	0.1609	0.0407	0.0113	0.0521	0.0000	677.2948	677.2948	8.6700e-003	0.0000	677.5115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	9.3700e-003	0.1003	2.4000e-004	0.0239	1.9000e-004	0.0241	6.3700e-003	1.7000e-004	6.5400e-003	0.0000	21.4286	21.4286	6.8000e-004	0.0000	21.4457
Total	0.0914	2.9893	0.9483	7.3800e-003	0.1730	0.0120	0.1850	0.0471	0.0115	0.0586	0.0000	698.7234	698.7234	9.3500e-003	0.0000	698.9572

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9243	0.0000	0.9243	0.5041	0.0000	0.5041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6764	7.6300	4.8577	9.4200e-003		0.3304	0.3304		0.3040	0.3040	0.0000	828.1603	828.1603	0.2678	0.0000	834.8564
Total	0.6764	7.6300	4.8577	9.4200e-003	0.9243	0.3304	1.2547	0.5041	0.3040	0.8081	0.0000	828.1603	828.1603	0.2678	0.0000	834.8564

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0763	2.9799	0.8479	7.1400e-003	0.1490	0.0118	0.1609	0.0407	0.0113	0.0521	0.0000	677.2948	677.2948	8.6700e-003	0.0000	677.5115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	9.3700e-003	0.1003	2.4000e-004	0.0239	1.9000e-004	0.0241	6.3700e-003	1.7000e-004	6.5400e-003	0.0000	21.4286	21.4286	6.8000e-004	0.0000	21.4457
Total	0.0914	2.9893	0.9483	7.3800e-003	0.1730	0.0120	0.1850	0.0471	0.0115	0.0586	0.0000	698.7234	698.7234	9.3500e-003	0.0000	698.9572

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.2552	0.1698	3.4000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2146
Total	0.0231	0.2552	0.1698	3.4000e-004	0.0420	0.0109	0.0530	0.0192	0.0101	0.0292	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2146

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6200e-003	0.1000	0.0288	2.6000e-004	0.1152	3.9000e-004	0.1155	0.0284	3.7000e-004	0.0288	0.0000	24.2693	24.2693	2.9000e-004	0.0000	24.2765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.0000e-004	3.3000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7491	0.7491	2.0000e-005	0.0000	0.7496
Total	3.1400e-003	0.1003	0.0321	2.7000e-004	0.1160	4.0000e-004	0.1164	0.0286	3.8000e-004	0.0290	0.0000	25.0183	25.0183	3.1000e-004	0.0000	25.0261

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.2552	0.1698	3.4000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2145
Total	0.0231	0.2552	0.1698	3.4000e-004	0.0420	0.0109	0.0530	0.0192	0.0101	0.0292	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2145

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6200e-003	0.1000	0.0288	2.6000e-004	0.1152	3.9000e-004	0.1155	0.0284	3.7000e-004	0.0288	0.0000	24.2693	24.2693	2.9000e-004	0.0000	24.2765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.0000e-004	3.3000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7491	0.7491	2.0000e-005	0.0000	0.7496
Total	3.1400e-003	0.1003	0.0321	2.7000e-004	0.1160	4.0000e-004	0.1164	0.0286	3.8000e-004	0.0290	0.0000	25.0183	25.0183	3.1000e-004	0.0000	25.0261

3.5 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-003	0.0190	0.0132	2.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944
Total	2.1000e-003	0.0190	0.0132	2.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944

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3.5 Trenching - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-003	0.0190	0.0132	2.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944
Total	2.1000e-003	0.0190	0.0132	2.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944

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3.5 Trenching - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2120	1.9186	1.6849	2.6900e-003		0.1117	0.1117		0.1050	0.1050	0.0000	231.6100	231.6100	0.0565	0.0000	233.0226
Total	0.2120	1.9186	1.6849	2.6900e-003		0.1117	0.1117		0.1050	0.1050	0.0000	231.6100	231.6100	0.0565	0.0000	233.0226

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.0282	0.3448	2.1800e-003	0.0526	5.8800e-003	0.0585	0.0152	5.6300e-003	0.0208	0.0000	206.2121	206.2121	4.2300e-003	0.0000	206.3179
Worker	0.1016	0.0629	0.6732	1.5900e-003	0.1606	1.2700e-003	0.1619	0.0427	1.1700e-003	0.0439	0.0000	143.7970	143.7970	4.5900e-003	0.0000	143.9117
Total	0.1363	1.0911	1.0180	3.7700e-003	0.2132	7.1500e-003	0.2204	0.0579	6.8000e-003	0.0647	0.0000	350.0091	350.0091	8.8200e-003	0.0000	350.2296

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2120	1.9186	1.6849	2.6900e-003		0.1117	0.1117		0.1050	0.1050	0.0000	231.6097	231.6097	0.0565	0.0000	233.0223
Total	0.2120	1.9186	1.6849	2.6900e-003		0.1117	0.1117		0.1050	0.1050	0.0000	231.6097	231.6097	0.0565	0.0000	233.0223

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3.6 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.0282	0.3448	2.1800e-003	0.0526	5.8800e-003	0.0585	0.0152	5.6300e-003	0.0208	0.0000	206.2121	206.2121	4.2300e-003	0.0000	206.3179
Worker	0.1016	0.0629	0.6732	1.5900e-003	0.1606	1.2700e-003	0.1619	0.0427	1.1700e-003	0.0439	0.0000	143.7970	143.7970	4.5900e-003	0.0000	143.9117
Total	0.1363	1.0911	1.0180	3.7700e-003	0.2132	7.1500e-003	0.2204	0.0579	6.8000e-003	0.0647	0.0000	350.0091	350.0091	8.8200e-003	0.0000	350.2296

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8186	115.8186	0.0279	0.0000	116.5172
Total	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8186	115.8186	0.0279	0.0000	116.5172

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.4680	0.1539	1.0800e-003	0.0263	1.4100e-003	0.0277	7.6000e-003	1.3500e-003	8.9500e-003	0.0000	102.3962	102.3962	1.8400e-003	0.0000	102.4422
Worker	0.0478	0.0283	0.3064	7.7000e-004	0.0803	6.1000e-004	0.0809	0.0214	5.6000e-004	0.0219	0.0000	69.4587	69.4587	2.0500e-003	0.0000	69.5100
Total	0.0620	0.4962	0.4603	1.8500e-003	0.1066	2.0200e-003	0.1086	0.0290	1.9100e-003	0.0309	0.0000	171.8549	171.8549	3.8900e-003	0.0000	171.9522

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8185	115.8185	0.0279	0.0000	116.5171
Total	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8185	115.8185	0.0279	0.0000	116.5171

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.4680	0.1539	1.0800e-003	0.0263	1.4100e-003	0.0277	7.6000e-003	1.3500e-003	8.9500e-003	0.0000	102.3962	102.3962	1.8400e-003	0.0000	102.4422
Worker	0.0478	0.0283	0.3064	7.7000e-004	0.0803	6.1000e-004	0.0809	0.0214	5.6000e-004	0.0219	0.0000	69.4587	69.4587	2.0500e-003	0.0000	69.5100
Total	0.0620	0.4962	0.4603	1.8500e-003	0.1066	2.0200e-003	0.1086	0.0290	1.9100e-003	0.0309	0.0000	171.8549	171.8549	3.8900e-003	0.0000	171.9522

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	9.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0219	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222
Total	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	9.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0219	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222
Total	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	1.2386	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.8 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940
Total	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	1.2386	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.8 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940
Total	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.614 4	3,391.614 4	0.1230	0.0000	3,394.688 3
Unmitigated	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.614 4	3,391.614 4	0.1230	0.0000	3,394.688 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,820.76	2,649.85	1991.78	1,834,672	1,834,672
General Office Building	38.61	8.61	3.68	70,091	70,091
High Turnover (Sit Down Restaurant)	598.88	745.92	620.97	722,890	722,890
Hotel	817.00	819.00	595.00	1,492,531	1,492,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	314.83	330.26	252.56	365,500	365,500
Regional Shopping Center	185.32	216.87	109.54	313,842	313,842
Supermarket	3,064.13	5,322.37	4988.21	4,164,870	4,164,870
Total	6,839.52	10,092.88	8,561.73	8,964,396	8,964,396

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	519.3826	519.3826	0.0235	4.8600e-003	521.4177
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	519.3826	519.3826	0.0235	4.8600e-003	521.4177
NaturalGas Mitigated	0.0172	0.1562	0.1312	9.4000e-004			0.0119	0.0119		0.0119	0.0000	170.0169	170.0169	3.2600e-003	3.1200e-003	171.0272
NaturalGas Unmitigated	0.0172	0.1562	0.1312	9.4000e-004			0.0119	0.0119		0.0119	0.0000	170.0169	170.0169	3.2600e-003	3.1200e-003	171.0272

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	426454	2.3000e-003	0.0209	0.0176	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7572	22.7572	4.4000e-004	4.2000e-004	22.8924
General Office Building	68390	3.7000e-004	3.3500e-003	2.8200e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6496	3.6496	7.0000e-005	7.0000e-005	3.6712
High Turnover (Sit Down Restaurant)	547302	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.2061	29.2061	5.6000e-004	5.4000e-004	29.3797
Hotel	935030	5.0400e-003	0.0458	0.0385	2.8000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.8968	49.8968	9.6000e-004	9.1000e-004	50.1933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	406700	2.1900e-003	0.0199	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7031	21.7031	4.2000e-004	4.0000e-004	21.8320
Regional Shopping Center	31291.4	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6698	1.6698	3.0000e-005	3.0000e-005	1.6798
Supermarket	770828	4.1600e-003	0.0378	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1343	41.1343	7.9000e-004	7.5000e-004	41.3788
Total		0.0172	0.1562	0.1312	9.5000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0169	170.0169	3.2700e-003	3.1200e-003	171.0272

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	426454	2.3000e-003	0.0209	0.0176	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7572	22.7572	4.4000e-004	4.2000e-004	22.8924
General Office Building	68390	3.7000e-004	3.3500e-003	2.8200e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6496	3.6496	7.0000e-005	7.0000e-005	3.6712
High Turnover (Sit Down Restaurant)	547302	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.2061	29.2061	5.6000e-004	5.4000e-004	29.3797
Hotel	935030	5.0400e-003	0.0458	0.0385	2.8000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.8968	49.8968	9.6000e-004	9.1000e-004	50.1933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	406700	2.1900e-003	0.0199	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7031	21.7031	4.2000e-004	4.0000e-004	21.8320
Regional Shopping Center	31291.4	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6698	1.6698	3.0000e-005	3.0000e-005	1.6798
Supermarket	770828	4.1600e-003	0.0378	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1343	41.1343	7.9000e-004	7.5000e-004	41.3788
Total		0.0172	0.1562	0.1312	9.5000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0169	170.0169	3.2700e-003	3.1200e-003	171.0272

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5.3 Energy by Land Use - Electricity**Unmitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Fast Food Restaurant with Drive Thru	90171.9	26.2320	1.1900e-003	2.5000e-004	26.3348
General Office Building	38710	11.2612	5.1000e-004	1.1000e-004	11.3053
High Turnover (Sit Down Restaurant)	115725	33.6656	1.5200e-003	3.1000e-004	33.7976
Hotel	335998	97.7458	4.4200e-003	9.1000e-004	98.1288
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	85995	25.0169	1.1300e-003	2.3000e-004	25.1150
Regional Shopping Center	58676.8	17.0698	7.7000e-004	1.6000e-004	17.1366
Supermarket	1.02407e+006	297.9151	0.0135	2.7900e-003	299.0825
Total		519.3826	0.0235	4.8600e-003	521.4177

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5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Fast Food Restaurant with Drive Thru	90171.9	26.2320	1.1900e-003	2.5000e-004	26.3348
General Office Building	38710	11.2612	5.1000e-004	1.1000e-004	11.3053
High Turnover (Sit Down Restaurant)	115725	33.6656	1.5200e-003	3.1000e-004	33.7976
Hotel	335998	97.7458	4.4200e-003	9.1000e-004	98.1288
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	85995	25.0169	1.1300e-003	2.3000e-004	25.1150
Regional Shopping Center	58676.8	17.0698	7.7000e-004	1.6000e-004	17.1366
Supermarket	1.02407e+006	297.9151	0.0135	2.7900e-003	299.0825
Total		519.3826	0.0235	4.8600e-003	521.4177

6.0 Area Detail

6.1 Mitigation Measures Area

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Unmitigated	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3958					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Total	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3958					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Total	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105

7.0 Water Detail

7.1 Mitigation Measures Water

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.6166	0.3521	8.4600e-003	32.9418
Unmitigated	21.6166	0.3521	8.4600e-003	32.9418

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.11397 / 0.0711044	2.1793	0.0364	8.7000e-004	3.3494
General Office Building	0.622068 / 0.381268	1.5648	0.0203	4.9000e-004	2.2195
High Turnover (Sit Down Restaurant)	1.42964 / 0.0912539	2.7969	0.0467	1.1200e-003	4.2985
Hotel	2.53668 / 0.281853	5.0848	0.0829	1.9900e-003	7.7496
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.06237 / 0.0678107	2.0784	0.0347	8.3000e-004	3.1942
Regional Shopping Center	0.321475 / 0.197033	0.8087	0.0105	2.5000e-004	1.1470
Supermarket	3.69435 / 0.114258	7.1037	0.1207	2.9000e-003	10.9835
Total		21.6166	0.3521	8.4500e-003	32.9418

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.11397 / 0.0711044	2.1793	0.0364	8.7000e-004	3.3494
General Office Building	0.622068 / 0.381268	1.5648	0.0203	4.9000e-004	2.2195
High Turnover (Sit Down Restaurant)	1.42964 / 0.0912539	2.7969	0.0467	1.1200e-003	4.2985
Hotel	2.53668 / 0.281853	5.0848	0.0829	1.9900e-003	7.7496
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.06237 / 0.0678107	2.0784	0.0347	8.3000e-004	3.1942
Regional Shopping Center	0.321475 / 0.197033	0.8087	0.0105	2.5000e-004	1.1470
Supermarket	3.69435 / 0.114258	7.1037	0.1207	2.9000e-003	10.9835
Total		21.6166	0.3521	8.4500e-003	32.9418

8.0 Waste Detail

8.1 Mitigation Measures Waste

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	67.6183	3.9961	0.0000	167.5215
Unmitigated	67.6183	3.9961	0.0000	167.5215

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	3.26	0.6618	0.0391	0.0000	1.6395
High Turnover (Sit Down Restaurant)	56.05	11.3776	0.6724	0.0000	28.1876
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	4.56	0.9256	0.0547	0.0000	2.2932
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		67.6183	3.9961	0.0000	167.5215

Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	3.26	0.6618	0.0391	0.0000	1.6395
High Turnover (Sit Down Restaurant)	56.05	11.3776	0.6724	0.0000	28.1876
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	4.56	0.9256	0.0547	0.0000	2.2932
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		67.6183	3.9961	0.0000	167.5215

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Montano - Construction Phase 1 - El Dorado-Mountain County County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Montano - Construction Phase 1
El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	4.71	1000sqft	0.11	4,710.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	4.34	1000sqft	0.10	4,340.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Project Characteristics -

Land Use - Adjusted hotel acreage based on 4-story building

Construction Phase - Adjusted grading phasing to one year

Off-road Equipment -

Off-road Equipment - No Demo

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added trenching equipment since defaults are not provided

Grading - Adjusted total acres graded

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	315.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	787.50	16.80
tblGrading	MaterialExported	0.00	140,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LotAcreage	3.33	0.25

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.6210	99.0565	65.5131	0.1770	18.2141	3.4406	20.4127	9.9699	3.1930	11.9926	0.0000	17,669.4699	17,669.4699	2.7307	0.0000	17,737.7383
2021	124.0720	91.1828	62.7796	0.1758	30.4425	3.0553	33.4978	9.3831	2.8338	12.2170	0.0000	17,543.5718	17,543.5718	2.7072	0.0000	17,611.2516
Maximum	124.0720	99.0565	65.5131	0.1770	30.4425	3.4406	33.4978	9.9699	3.1930	12.2170	0.0000	17,669.4699	17,669.4699	2.7307	0.0000	17,737.7383

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.6210	99.0565	65.5131	0.1770	18.2141	3.4406	20.4127	9.9699	3.1930	11.9926	0.0000	17,669.4698	17,669.4698	2.7307	0.0000	17,737.7383
2021	124.0720	91.1828	62.7796	0.1758	30.4425	3.0553	33.4978	9.3831	2.8338	12.2170	0.0000	17,543.5717	17,543.5717	2.7072	0.0000	17,611.2516
Maximum	124.0720	99.0565	65.5131	0.1770	30.4425	3.4406	33.4978	9.9699	3.1930	12.2170	0.0000	17,669.4698	17,669.4698	2.7307	0.0000	17,737.7383

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Percent Reduction	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
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Energy	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150
Mobile	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411
Total	19.7086	32.6796	112.9725	0.2934	25.0077	0.3438	25.3515	6.6810	0.3252	7.0062		29,926.1035	29,926.1035	0.9948	0.0188	29,956.5841

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Energy	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150
Mobile	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411
Total	19.7086	32.6796	112.9725	0.2934	25.0077	0.3438	25.3515	6.6810	0.3252	7.0062		29,926.1035	29,926.1035	0.9948	0.0188	29,956.5841

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	6	0	
2	Site Preparation	Site Preparation	1/1/2020	1/11/2020	6	10	
3	Grading	Grading	1/13/2020	1/13/2021	6	315	
4	Trenching	Trenching	5/1/2020	5/12/2020	6	10	
5	Building Construction	Building Construction	5/13/2020	4/27/2021	6	300	
6	Paving	Paving	4/28/2021	5/20/2021	6	20	
7	Architectural Coating	Architectural Coating	5/21/2021	6/12/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 16.8

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 142,095; Non-Residential Outdoor: 47,365; Striped Parking Area: 23,949 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Grading	8	20.00	0.00	18,094.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003		151.6527
Total	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003		151.6527

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003		151.6527
Total	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003		151.6527

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.0787	2.1739	8.2526	3.3163	2.0000	5.3163		6,005.8653	6,005.8653	1.9424		6,054.4257

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4966	19.0155	5.4645	0.0472	1.0181	0.0773	1.0955	0.2772	0.0740	0.3511		4,934.6529	4,934.6529	0.0613		4,936.1865
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1084	0.0540	0.7159	1.6900e-003	0.1643	1.2500e-003	0.1655	0.0436	1.1500e-003	0.0447		168.3704	168.3704	5.3000e-003		168.5030
Total	0.6051	19.0695	6.1804	0.0489	1.1824	0.0786	1.2610	0.3208	0.0751	0.3959		5,103.0233	5,103.0233	0.0666		5,104.6895

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.0787	2.1739	8.2526	3.3163	2.0000	5.3163	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4966	19.0155	5.4645	0.0472	1.0181	0.0773	1.0955	0.2772	0.0740	0.3511		4,934.6529	4,934.6529	0.0613		4,936.1865
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1084	0.0540	0.7159	1.6900e-003	0.1643	1.2500e-003	0.1655	0.0436	1.1500e-003	0.0447		168.3704	168.3704	5.3000e-003		168.5030
Total	0.6051	19.0695	6.1804	0.0489	1.1824	0.0786	1.2610	0.3208	0.0751	0.3959		5,103.0233	5,103.0233	0.0666		5,104.6895

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.0787	1.9853	8.0640	3.3163	1.8265	5.1428		6,007.0434	6,007.0434	1.9428		6,055.6134

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4711	17.6418	5.1257	0.0467	21.9788	0.0701	22.0489	5.4221	0.0670	5.4891		4,886.9100	4,886.9100	0.0563		4,888.3179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1021	0.0486	0.6541	1.6300e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447		162.6602	162.6602	4.7500e-003		162.7789
Total	0.5732	17.6903	5.7797	0.0484	22.1431	0.0713	22.2144	5.4656	0.0682	5.5338		5,049.5702	5,049.5702	0.0611		5,051.0968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.0787	1.9853	8.0640	3.3163	1.8265	5.1428	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4711	17.6418	5.1257	0.0467	21.9788	0.0701	22.0489	5.4221	0.0670	5.4891		4,886.9100	4,886.9100	0.0563		4,888.3179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1021	0.0486	0.6541	1.6300e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447		162.6602	162.6602	4.7500e-003		162.7789
Total	0.5732	17.6903	5.7797	0.0484	22.1431	0.0713	22.2144	5.4656	0.0682	5.5338		5,049.5702	5,049.5702	0.0611		5,051.0968

3.5 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4197	3.7966	2.6363	3.3700e-003		0.2843	0.2843		0.2615	0.2615		326.8121	326.8121	0.1057		329.4545
Total	0.4197	3.7966	2.6363	3.3700e-003		0.2843	0.2843		0.2615	0.2615		326.8121	326.8121	0.1057		329.4545

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004		25.2755
Total	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004		25.2755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4197	3.7966	2.6363	3.3700e-003		0.2843	0.2843		0.2615	0.2615	0.0000	326.8121	326.8121	0.1057		329.4545
Total	0.4197	3.7966	2.6363	3.3700e-003		0.2843	0.2843		0.2615	0.2615	0.0000	326.8121	326.8121	0.1057		329.4545

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004		25.2755
Total	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004		25.2755

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3402	10.0526	3.2240	0.0219	0.5450	0.0584	0.6033	0.1566	0.0558	0.2125		2,290.1402	2,290.1402	0.0447			2,291.2582
Worker	1.1058	0.5509	7.3019	0.0173	1.6758	0.0127	1.6885	0.4445	0.0117	0.4562		1,717.3780	1,717.3780	0.0541			1,718.7304
Total	1.4460	10.6034	10.5259	0.0392	2.2208	0.0711	2.2918	0.6011	0.0675	0.6687		4,007.5182	4,007.5182	0.0988			4,009.9886

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3402	10.0526	3.2240	0.0219	0.5450	0.0584	0.6033	0.1566	0.0558	0.2125		2,290.1402	2,290.1402	0.0447		2,291.2582
Worker	1.1058	0.5509	7.3019	0.0173	1.6758	0.0127	1.6885	0.4445	0.0117	0.4562		1,717.3780	1,717.3780	0.0541		1,718.7304
Total	1.4460	10.6034	10.5259	0.0392	2.2208	0.0711	2.2918	0.6011	0.0675	0.6687		4,007.5182	4,007.5182	0.0988		4,009.9886

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2767	9.1654	2.8750	0.0218	0.5450	0.0278	0.5728	0.1566	0.0266	0.1833		2,274.4606	2,274.4606	0.0389		2,275.4322
Worker	1.0412	0.4952	6.6713	0.0167	1.6758	0.0123	1.6881	0.4445	0.0113	0.4558		1,659.1336	1,659.1336	0.0485		1,660.3449
Total	1.3179	9.6606	9.5463	0.0385	2.2208	0.0401	2.2608	0.6011	0.0379	0.6390		3,933.5943	3,933.5943	0.0873		3,935.7771

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2767	9.1654	2.8750	0.0218	0.5450	0.0278	0.5728	0.1566	0.0266	0.1833		2,274.4606	2,274.4606	0.0389			2,275.4322
Worker	1.0412	0.4952	6.6713	0.0167	1.6758	0.0123	1.6881	0.4445	0.0113	0.4558		1,659.1336	1,659.1336	0.0485			1,660.3449
Total	1.3179	9.6606	9.5463	0.0385	2.2208	0.0401	2.2608	0.6011	0.0379	0.6390		3,933.5943	3,933.5943	0.0873			3,935.7771

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139			2,225.0573
Paving	0.9314					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.1870	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139			2,225.0573

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003		122.0842
Total	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003		122.0842

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9314					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1870	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003		122.0842
Total	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003		122.0842

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.6438					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	123.8627	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003		333.6968
Total	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003		333.6968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.6438					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	123.8627	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003		333.6968
Total	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003		333.6968

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411
Unmitigated	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,820.76	2,649.85	1991.78	1,834,672	1,834,672
General Office Building	38.61	8.61	3.68	70,091	70,091
High Turnover (Sit Down Restaurant)	598.88	745.92	620.97	722,890	722,890
Hotel	817.00	819.00	595.00	1,492,531	1,492,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	314.83	330.26	252.56	365,500	365,500
Regional Shopping Center	185.32	216.87	109.54	313,842	313,842
Supermarket	3,064.13	5,322.37	4988.21	4,164,870	4,164,870
Total	6,839.52	10,092.88	8,561.73	8,964,396	8,964,396

4.3 Trip Type Information

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150
NaturalGas Unmitigated	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	1168.37	0.0126	0.1146	0.0962	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.4550	137.4550	2.6300e-003	2.5200e-003	138.2718
General Office Building	187.37	2.0200e-003	0.0184	0.0154	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.0435	22.0435	4.2000e-004	4.0000e-004	22.1745
High Turnover (Sit Down Restaurant)	1499.46	0.0162	0.1470	0.1235	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.4068	176.4068	3.3800e-003	3.2300e-003	177.4551
Hotel	2561.73	0.0276	0.2512	0.2110	1.5100e-003		0.0191	0.0191		0.0191	0.0191		301.3797	301.3797	5.7800e-003	5.5300e-003	303.1706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1114.25	0.0120	0.1092	0.0918	6.6000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003		131.0878	131.0878	2.5100e-003	2.4000e-003	131.8668
Regional Shopping Center	85.7299	9.2000e-004	8.4000e-003	7.0600e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0859	10.0859	1.9000e-004	1.8000e-004	10.1458
Supermarket	2111.86	0.0228	0.2070	0.1739	1.2400e-003		0.0157	0.0157		0.0157	0.0157		248.4540	248.4540	4.7600e-003	4.5500e-003	249.9304
Total		0.0941	0.8558	0.7188	5.1400e-003		0.0651	0.0651		0.0651	0.0651		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	1.16837	0.0126	0.1146	0.0962	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.4550	137.4550	2.6300e-003	2.5200e-003	138.2718
General Office Building	0.18737	2.0200e-003	0.0184	0.0154	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.0435	22.0435	4.2000e-004	4.0000e-004	22.1745
High Turnover (Sit Down Restaurant)	1.49946	0.0162	0.1470	0.1235	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.4068	176.4068	3.3800e-003	3.2300e-003	177.4551
Hotel	2.56173	0.0276	0.2512	0.2110	1.5100e-003		0.0191	0.0191		0.0191	0.0191		301.3797	301.3797	5.7800e-003	5.5300e-003	303.1706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.11425	0.0120	0.1092	0.0918	6.6000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003		131.0878	131.0878	2.5100e-003	2.4000e-003	131.8668
Regional Shopping Center	0.0857299	9.2000e-004	8.4000e-003	7.0600e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0859	10.0859	1.9000e-004	1.8000e-004	10.1458
Supermarket	2.11186	0.0228	0.2070	0.1739	1.2400e-003		0.0157	0.0157		0.0157	0.0157		248.4540	248.4540	4.7600e-003	4.5500e-003	249.9304
Total		0.0941	0.8558	0.7188	5.1400e-003		0.0651	0.0651		0.0651	0.0651		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150

6.0 Area Detail

6.1 Mitigation Measures Area

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Unmitigated	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1900e-003	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Total	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1900e-003	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Total	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Montano - Construction Phase 1 - El Dorado-Mountain County County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Montano - Construction Phase 2 - El Dorado-Mountain County County, Annual

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El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.61	1000sqft	0.11	4,607.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
High Turnover (Sit Down Restaurant)	5.19	1000sqft	0.12	5,193.00	0
Regional Shopping Center	13.99	1000sqft	0.32	13,988.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use -

Construction Phase - No demo, site prep, grading, or paving

Grading -

Off-road Equipment - No demo

Off-road Equipment - No site prep

Off-road Equipment - No grading

Off-road Equipment -

Off-road Equipment - No paving

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	4,610.00	4,607.00
tblLandUse	LandUseSquareFeet	5,190.00	5,193.00
tblLandUse	LandUseSquareFeet	13,990.00	13,988.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	13.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-14-2021	10-13-2021	0.7386	0.7386
2	10-14-2021	1-13-2022	0.7301	0.7301
3	1-14-2022	4-13-2022	0.6652	0.6652
		Highest	0.7386	0.7386

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Energy	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	157.2226	157.2226	5.9800e-003	1.8600e-003	157.9265
Mobile	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229
Waste						0.0000	0.0000		0.0000	0.0000	16.4199	0.0000	16.4199	0.9704	0.0000	40.6797
Water						0.0000	0.0000		0.0000	0.0000	1.8401	10.5446	12.3847	0.1895	4.5600e-003	18.4809
Total	0.4960	0.9688	3.2367	8.4900e-003	0.7442	0.0113	0.7555	0.1995	0.0108	0.2103	18.2601	917.9456	936.2057	1.1917	6.4200e-003	967.9106

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Energy	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	157.2226	157.2226	5.9800e-003	1.8600e-003	157.9265
Mobile	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229
Waste						0.0000	0.0000		0.0000	0.0000	16.4199	0.0000	16.4199	0.9704	0.0000	40.6797
Water						0.0000	0.0000		0.0000	0.0000	1.8401	10.5446	12.3847	0.1895	4.5600e-003	18.4809
Total	0.4960	0.9688	3.2367	8.4900e-003	0.7442	0.0113	0.7555	0.1995	0.0108	0.2103	18.2601	917.9456	936.2057	1.1917	6.4200e-003	967.9106

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Montano - Construction Phase 2 - El Dorado-Mountain County County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	6/14/2021	2/24/2022	6	220	
2	Demolition	Demolition	7/14/2021	7/13/2021	6	0	
3	Site Preparation	Site Preparation	8/11/2021	8/10/2021	6	0	
4	Grading	Grading	8/14/2021	8/13/2021	6	0	
5	Architectural Coating	Architectural Coating	2/25/2022	3/8/2022	6	10	
6	Paving	Paving	6/28/2022	6/27/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,932; Non-Residential Outdoor: 14,644; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Montano - Construction Phase 2 - El Dorado-Mountain County County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Scrapers	0	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1769	1.3864	1.2597	2.1600e-003		0.0707	0.0707		0.0677	0.0677	0.0000	179.6162	179.6162	0.0353	0.0000	180.4996
Total	0.1769	1.3864	1.2597	2.1600e-003		0.0707	0.0707		0.0677	0.0677	0.0000	179.6162	179.6162	0.0353	0.0000	180.4996

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3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5100e-003	0.0500	0.0164	1.2000e-004	2.8100e-003	1.5000e-004	2.9600e-003	8.1000e-004	1.4000e-004	9.6000e-004	0.0000	10.9349	10.9349	2.0000e-004	0.0000	10.9398
Worker	4.0500e-003	2.4000e-003	0.0260	7.0000e-005	6.8100e-003	5.0000e-005	6.8600e-003	1.8100e-003	5.0000e-005	1.8600e-003	0.0000	5.8904	5.8904	1.7000e-004	0.0000	5.8947
Total	5.5600e-003	0.0524	0.0424	1.9000e-004	9.6200e-003	2.0000e-004	9.8200e-003	2.6200e-003	1.9000e-004	2.8200e-003	0.0000	16.8253	16.8253	3.7000e-004	0.0000	16.8345

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1769	1.3864	1.2597	2.1600e-003		0.0707	0.0707		0.0677	0.0677	0.0000	179.6159	179.6159	0.0353	0.0000	180.4994
Total	0.1769	1.3864	1.2597	2.1600e-003		0.0707	0.0707		0.0677	0.0677	0.0000	179.6159	179.6159	0.0353	0.0000	180.4994

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3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5100e-003	0.0500	0.0164	1.2000e-004	2.8100e-003	1.5000e-004	2.9600e-003	8.1000e-004	1.4000e-004	9.6000e-004	0.0000	10.9349	10.9349	2.0000e-004	0.0000	10.9398
Worker	4.0500e-003	2.4000e-003	0.0260	7.0000e-005	6.8100e-003	5.0000e-005	6.8600e-003	1.8100e-003	5.0000e-005	1.8600e-003	0.0000	5.8904	5.8904	1.7000e-004	0.0000	5.8947
Total	5.5600e-003	0.0524	0.0424	1.9000e-004	9.6200e-003	2.0000e-004	9.8200e-003	2.6200e-003	1.9000e-004	2.8200e-003	0.0000	16.8253	16.8253	3.7000e-004	0.0000	16.8345

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0436	0.3432	0.3373	5.9000e-004		0.0165	0.0165		0.0158	0.0158	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402
Total	0.0436	0.3432	0.3373	5.9000e-004		0.0165	0.0165		0.0158	0.0158	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402

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3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-004	0.0129	4.2000e-003	3.0000e-005	7.6000e-004	4.0000e-005	8.0000e-004	2.2000e-004	3.0000e-005	2.6000e-004	0.0000	2.9492	2.9492	5.0000e-005	0.0000	2.9504
Worker	1.0400e-003	5.9000e-004	6.4600e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5435	1.5435	4.0000e-005	0.0000	1.5445
Total	1.4200e-003	0.0135	0.0107	5.0000e-005	2.6100e-003	5.0000e-005	2.6600e-003	7.1000e-004	4.0000e-005	7.6000e-004	0.0000	4.4926	4.4926	9.0000e-005	0.0000	4.4949

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0436	0.3432	0.3373	5.9000e-004		0.0165	0.0165		0.0158	0.0158	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402
Total	0.0436	0.3432	0.3373	5.9000e-004		0.0165	0.0165		0.0158	0.0158	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402

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3.5 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.3404	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0657	0.0657	0.0000	0.0000	0.0657
Total	4.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0657	0.0657	0.0000	0.0000	0.0657

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.3404	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

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3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229
Unmitigated	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	58.91	58.91	58.91	114,390	114,390
General Office Building	50.85	11.34	4.84	92,320	92,320
High Turnover (Sit Down Restaurant)	659.91	821.94	684.25	796,560	796,560
Regional Shopping Center	597.37	699.08	353.11	1,011,670	1,011,670
Total	1,367.03	1,591.27	1,101.10	2,014,941	2,014,941

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	113.8055	113.8055	5.1500e-003	1.0600e-003	114.2514
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	113.8055	113.8055	5.1500e-003	1.0600e-003	114.2514
NaturalGas Mitigated	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751
NaturalGas Unmitigated	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	19305	1.0000e-004	9.5000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0302	1.0302	2.0000e-005	2.0000e-005	1.0363
General Office Building	90020.8	4.9000e-004	4.4100e-003	3.7100e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8039	4.8039	9.0000e-005	9.0000e-005	4.8324
High Turnover (Sit Down Restaurant)	603427	3.2500e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2011	32.2011	6.2000e-004	5.9000e-004	32.3925
Regional Shopping Center	100853	5.4000e-004	4.9400e-003	4.1500e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.3819	5.3819	1.0000e-004	1.0000e-004	5.4139
Total		4.3800e-003	0.0399	0.0335	2.5000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	19305	1.0000e-004	9.5000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0302	1.0302	2.0000e-005	2.0000e-005	1.0363
General Office Building	90020.8	4.9000e-004	4.4100e-003	3.7100e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8039	4.8039	9.0000e-005	9.0000e-005	4.8324
High Turnover (Sit Down Restaurant)	603427	3.2500e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2011	32.2011	6.2000e-004	5.9000e-004	32.3925
Regional Shopping Center	100853	5.4000e-004	4.9400e-003	4.1500e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.3819	5.3819	1.0000e-004	1.0000e-004	5.4139
Total		4.3800e-003	0.0399	0.0335	2.5000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	23540	6.8481	3.1000e-004	6.0000e-005	6.8749
General Office Building	50953.4	14.8229	6.7000e-004	1.4000e-004	14.8810
High Turnover (Sit Down Restaurant)	127592	37.1180	1.6800e-003	3.5000e-004	37.2634
Regional Shopping Center	189118	55.0165	2.4900e-003	5.1000e-004	55.2321
Total		113.8055	5.1500e-003	1.0600e-003	114.2514

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	23540	6.8481	3.1000e-004	6.0000e-005	6.8749
General Office Building	50953.4	14.8229	6.7000e-004	1.4000e-004	14.8810
High Turnover (Sit Down Restaurant)	127592	37.1180	1.6800e-003	3.5000e-004	37.2634
Regional Shopping Center	189118	55.0165	2.4900e-003	5.1000e-004	55.2321
Total		113.8055	5.1500e-003	1.0600e-003	114.2514

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Unmitigated	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Total	0.1483	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Total	0.1483	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.3847	0.1895	4.5600e-003	18.4809
Unmitigated	12.3847	0.1895	4.5600e-003	18.4809

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	2.36924 / 0.151228	4.6351	0.0774	1.8600e-003	7.1236
General Office Building	0.819353 / 0.502184	2.0610	0.0268	6.5000e-004	2.9234
High Turnover (Sit Down Restaurant)	1.57534 / 0.100554	3.0819	0.0515	1.2400e-003	4.7366
Regional Shopping Center	1.03627 / 0.635136	2.6067	0.0339	8.2000e-004	3.6974
Total		12.3847	0.1895	4.5700e-003	18.4809

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	2.36924 / 0.151228	4.6351	0.0774	1.8600e-003	7.1236
General Office Building	0.819353 / 0.502184	2.0610	0.0268	6.5000e-004	2.9234
High Turnover (Sit Down Restaurant)	1.57534 / 0.100554	3.0819	0.0515	1.2400e-003	4.7366
Regional Shopping Center	1.03627 / 0.635136	2.6067	0.0339	8.2000e-004	3.6974
Total		12.3847	0.1895	4.5700e-003	18.4809

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.4199	0.9704	0.0000	40.6797
Unmitigated	16.4199	0.9704	0.0000	40.6797

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
General Office Building	4.29	0.8708	0.0515	0.0000	2.1575
High Turnover (Sit Down Restaurant)	61.76	12.5367	0.7409	0.0000	31.0592
Regional Shopping Center	14.69	2.9819	0.1762	0.0000	7.3876
Total		16.4199	0.9704	0.0000	40.6797

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
General Office Building	4.29	0.8708	0.0515	0.0000	2.1575
High Turnover (Sit Down Restaurant)	61.76	12.5367	0.7409	0.0000	31.0592
Regional Shopping Center	14.69	2.9819	0.1762	0.0000	7.3876
Total		16.4199	0.9704	0.0000	40.6797

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

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Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Montano - Construction Phase 2
El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.61	1000sqft	0.11	4,607.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
High Turnover (Sit Down Restaurant)	5.19	1000sqft	0.12	5,193.00	0
Regional Shopping Center	13.99	1000sqft	0.32	13,988.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No demo, site prep, grading, or paving

Grading -

Table Name	Column Name	Default Value	New Value
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Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	4,610.00	4,607.00
tblLandUse	LandUseSquareFeet	5,190.00	5,193.00
tblLandUse	LandUseSquareFeet	13,990.00	13,988.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	13.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.1132	16.6176	15.0674	0.0272	0.1158	0.8196	0.9354	0.0315	0.7853	0.8167	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418
2022	68.0891	15.1623	14.8208	0.0271	0.1158	0.7043	0.8201	0.0315	0.6751	0.7066	0.0000	2,507.1101	2,507.1101	0.4460	0.0000	2,518.2603
Maximum	68.0891	16.6176	15.0674	0.0272	0.1158	0.8196	0.9354	0.0315	0.7853	0.8167	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.1132	16.6176	15.0674	0.0272	0.1158	0.8196	0.9354	0.0315	0.7853	0.8167	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418
2022	68.0891	15.1623	14.8208	0.0271	0.1158	0.7043	0.8201	0.0315	0.6751	0.7066	0.0000	2,507.1101	2,507.1101	0.4460	0.0000	2,518.2603
Maximum	68.0891	16.6176	15.0674	0.0272	0.1158	0.8196	0.9354	0.0315	0.7853	0.8167	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Percent Reduction	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
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Energy	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004
Mobile	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270
Total	3.6500	6.0278	21.4115	0.0592	5.1120	0.0710	5.1830	1.3657	0.0674	1.4331		6,071.5963	6,071.5963	0.1922	4.8100e-003	6,077.8342

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Energy	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004
Mobile	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270
Total	3.6500	6.0278	21.4115	0.0592	5.1120	0.0710	5.1830	1.3657	0.0674	1.4331		6,071.5963	6,071.5963	0.1922	4.8100e-003	6,077.8342

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	6/14/2021	2/24/2022	6	220	
2	Demolition	Demolition	7/14/2021	7/13/2021	6	0	
3	Site Preparation	Site Preparation	8/11/2021	8/10/2021	6	0	
4	Grading	Grading	8/14/2021	8/13/2021	6	0	
5	Architectural Coating	Architectural Coating	2/25/2022	3/8/2022	6	10	
6	Paving	Paving	6/28/2022	6/27/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,932; Non-Residential Outdoor: 14,644; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Scrapers	0	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0171	0.5658	0.1775	1.3400e-003	0.0336	1.7200e-003	0.0354	9.6700e-003	1.6400e-003	0.0113		140.3988	140.3988	2.4000e-003			140.4588
Worker	0.0510	0.0243	0.3270	8.2000e-004	0.0822	6.0000e-004	0.0828	0.0218	5.5000e-004	0.0223		81.3301	81.3301	2.3800e-003			81.3895
Total	0.0681	0.5900	0.5045	2.1600e-003	0.1158	2.3200e-003	0.1181	0.0315	2.1900e-003	0.0337		221.7289	221.7289	4.7800e-003			221.8482

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503			2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503			2,300.1935

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0171	0.5658	0.1775	1.3400e-003	0.0336	1.7200e-003	0.0354	9.6700e-003	1.6400e-003	0.0113		140.3988	140.3988	2.4000e-003		140.4588
Worker	0.0510	0.0243	0.3270	8.2000e-004	0.0822	6.0000e-004	0.0828	0.0218	5.5000e-004	0.0223		81.3301	81.3301	2.3800e-003		81.3895
Total	0.0681	0.5900	0.5045	2.1600e-003	0.1158	2.3200e-003	0.1181	0.0315	2.1900e-003	0.0337		221.7289	221.7289	4.7800e-003		221.8482

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0160	0.5364	0.1671	1.3300e-003	0.0336	1.5200e-003	0.0352	9.6700e-003	1.4600e-003	0.0111		139.3854	139.3854	2.2100e-003		139.4406
Worker	0.0482	0.0219	0.3004	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		78.4434	78.4434	2.1300e-003		78.4967
Total	0.0642	0.5583	0.4675	2.1200e-003	0.1158	2.1000e-003	0.1179	0.0315	1.9900e-003	0.0335		217.8289	217.8289	4.3400e-003		217.9373

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	67.8749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	68.0795	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.6400e-003	4.3800e-003	0.0601	1.6000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4600e-003		15.6887	15.6887	4.3000e-004		15.6994
Total	9.6400e-003	4.3800e-003	0.0601	1.6000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4600e-003		15.6887	15.6887	4.3000e-004		15.6994

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	67.8749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	68.0795	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

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Mitigated	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270
Unmitigated	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	58.91	58.91	58.91	114,390	114,390
General Office Building	50.85	11.34	4.84	92,320	92,320
High Turnover (Sit Down Restaurant)	659.91	821.94	684.25	796,560	796,560
Regional Shopping Center	597.37	699.08	353.11	1,011,670	1,011,670
Total	1,367.03	1,591.27	1,101.10	2,014,941	2,014,941

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004
NaturalGas Unmitigated	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	52.8904	5.7000e-004	5.1900e-003	4.3600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.2224	6.2224	1.2000e-004	1.1000e-004	6.2594
General Office Building	246.632	2.6600e-003	0.0242	0.0203	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003		29.0156	29.0156	5.6000e-004	5.3000e-004	29.1880
High Turnover (Sit Down Restaurant)	1653.22	0.0178	0.1621	0.1362	9.7000e-004		0.0123	0.0123		0.0123	0.0123		194.4969	194.4969	3.7300e-003	3.5700e-003	195.6527
Regional Shopping Center	276.311	2.9800e-003	0.0271	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003		32.5072	32.5072	6.2000e-004	6.0000e-004	32.7003
Total		0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	0.0528904	5.7000e-004	5.1900e-003	4.3600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.2224	6.2224	1.2000e-004	1.1000e-004	6.2594
General Office Building	0.246632	2.6600e-003	0.0242	0.0203	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003		29.0156	29.0156	5.6000e-004	5.3000e-004	29.1880
High Turnover (Sit Down Restaurant)	1.65322	0.0178	0.1621	0.1362	9.7000e-004		0.0123	0.0123		0.0123	0.0123		194.4969	194.4969	3.7300e-003	3.5700e-003	195.6527
Regional Shopping Center	0.276311	2.9800e-003	0.0271	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003		32.5072	32.5072	6.2000e-004	6.0000e-004	32.7003
Total		0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Unmitigated	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Total	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Total	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Montano - Construction Phase 2 - El Dorado-Mountain County County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Montano - Construction Phase 3 - El Dorado-Mountain County County, Annual

Montano - Construction Phase 3
El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.84	1000sqft	0.20	8,841.00	0
Regional Shopping Center	13.45	1000sqft	0.31	13,447.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Building's 1 and 2 retail sqft combined

Construction Phase - No demo, site prep, grading, or paving

Grading -

Off-road Equipment -

Off-road Equipment - No demo

Off-road Equipment - No site prep

Off-road Equipment - No grading

Off-road Equipment -

Off-road Equipment - No paving

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	8,840.00	8,841.00
tblLandUse	LandUseSquareFeet	13,450.00	13,447.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	18.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.3373	0.3373
		Highest	0.3373	0.3373

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Energy	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	95.7270	95.7270	3.9500e-003	1.0200e-003	96.1312
Mobile	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244
Waste						0.0000	0.0000		0.0000	0.0000	4.5348	0.0000	4.5348	0.2680	0.0000	11.2348
Water						0.0000	0.0000		0.0000	0.0000	0.8145	5.6437	6.4582	0.0839	2.0300e-003	9.1605
Total	0.2814	0.4998	1.7054	4.7200e-003	0.4246	5.5600e-003	0.4302	0.1138	5.2600e-003	0.1191	5.3494	524.0476	529.3970	0.3698	3.0500e-003	539.5513

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Energy	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	95.7270	95.7270	3.9500e-003	1.0200e-003	96.1312
Mobile	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244
Waste						0.0000	0.0000		0.0000	0.0000	4.5348	0.0000	4.5348	0.2680	0.0000	11.2348
Water						0.0000	0.0000		0.0000	0.0000	0.8145	5.6437	6.4582	0.0839	2.0300e-003	9.1605
Total	0.2814	0.4998	1.7054	4.7200e-003	0.4246	5.5600e-003	0.4302	0.1138	5.2600e-003	0.1191	5.3494	524.0476	529.3970	0.3698	3.0500e-003	539.5513

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/9/2022	7/2/2022	6	100	
2	Demolition	Demolition	6/1/2022	5/31/2022	6	0	
3	Site Preparation	Site Preparation	6/15/2022	6/14/2022	6	0	
4	Grading	Grading	6/16/2022	6/15/2022	6	0	
5	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
6	Paving	Paving	11/5/2022	11/4/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,432; Non-Residential Outdoor: 11,144; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	7.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787
Total	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787

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3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5000e-004	0.0219	7.1500e-003	5.0000e-005	1.3000e-003	6.0000e-005	1.3600e-003	3.8000e-004	6.0000e-005	4.3000e-004	0.0000	5.0198	5.0198	8.0000e-005	0.0000	5.0219
Worker	1.5500e-003	8.7000e-004	9.6200e-003	3.0000e-005	2.7600e-003	2.0000e-005	2.7800e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.2988	2.2988	6.0000e-005	0.0000	2.3004
Total	2.2000e-003	0.0228	0.0168	8.0000e-005	4.0600e-003	8.0000e-005	4.1400e-003	1.1100e-003	8.0000e-005	1.1800e-003	0.0000	7.3186	7.3186	1.4000e-004	0.0000	7.3223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787
Total	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787

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3.5 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.2588	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0164	0.0164	0.0000	0.0000	0.0164
Total	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0164	0.0164	0.0000	0.0000	0.0164

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.2588	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244
Unmitigated	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	97.51	21.75	9.28	177,031	177,031
Regional Shopping Center	574.32	672.10	339.48	972,621	972,621
Total	671.82	693.84	348.76	1,149,652	1,149,652

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.3345	81.3345	3.6800e-003	7.6000e-004	81.6532
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.3345	81.3345	3.6800e-003	7.6000e-004	81.6532
NaturalGas Mitigated	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781
NaturalGas Unmitigated	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	172753	9.3000e-004	8.4700e-003	7.1100e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.2188	9.2188	1.8000e-004	1.7000e-004	9.2736
Regional Shopping Center	96952.9	5.2000e-004	4.7500e-003	3.9900e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1738	5.1738	1.0000e-004	9.0000e-005	5.2045
Total		1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	172753	9.3000e-004	8.4700e-003	7.1100e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.2188	9.2188	1.8000e-004	1.7000e-004	9.2736
Regional Shopping Center	96952.9	5.2000e-004	4.7500e-003	3.9900e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1738	5.1738	1.0000e-004	9.0000e-005	5.2045
Total		1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	97781.5	28.4458	1.2900e-003	2.7000e-004	28.5572
Regional Shopping Center	181803	52.8887	2.3900e-003	4.9000e-004	53.0959
Total		81.3345	3.6800e-003	7.6000e-004	81.6532

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	97781.5	28.4458	1.2900e-003	2.7000e-004	28.5572
Regional Shopping Center	181803	52.8887	2.3900e-003	4.9000e-004	53.0959
Total		81.3345	3.6800e-003	7.6000e-004	81.6532

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Unmitigated	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Total	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Total	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.4582	0.0839	2.0300e-003	9.1605
Unmitigated	6.4582	0.0839	2.0300e-003	9.1605

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.57117 / 0.962973	3.9522	0.0514	1.2400e-003	5.6058
Regional Shopping Center	0.996275 / 0.61062	2.5061	0.0326	7.9000e-004	3.5547
Total		6.4582	0.0839	2.0300e-003	9.1605

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.57117 / 0.962973	3.9522	0.0514	1.2400e-003	5.6058
Regional Shopping Center	0.996275 / 0.61062	2.5061	0.0326	7.9000e-004	3.5547
Total		6.4582	0.0839	2.0300e-003	9.1605

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.5348	0.2680	0.0000	11.2348
Unmitigated	4.5348	0.2680	0.0000	11.2348

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	8.22	1.6686	0.0986	0.0000	4.1339
Regional Shopping Center	14.12	2.8662	0.1694	0.0000	7.1010
Total		4.5348	0.2680	0.0000	11.2348

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	8.22	1.6686	0.0986	0.0000	4.1339
Regional Shopping Center	14.12	2.8662	0.1694	0.0000	7.1010
Total		4.5348	0.2680	0.0000	11.2348

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

**Montano - Construction Phase 3
El Dorado-Mountain County County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.84	1000sqft	0.20	8,841.00	0
Regional Shopping Center	13.45	1000sqft	0.31	13,447.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Building's 1 and 2 retail sqft combined

Construction Phase - No demo, site prep, grading, or paving

Grading -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00

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tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	8,840.00	8,841.00
tblLandUse	LandUseSquareFeet	13,450.00	13,447.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

tblTripsAndVMT	WorkerTripNumber	0.00	18.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	103.5142	7.4702	7.4967	0.0130	0.0844	0.3736	0.4580	0.0230	0.3437	0.3667	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654
Maximum	103.5142	7.4702	7.4967	0.0130	0.0844	0.3736	0.4580	0.0230	0.3437	0.3667	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	103.5142	7.4702	7.4967	0.0130	0.0844	0.3736	0.4580	0.0230	0.3437	0.3667	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654
Maximum	103.5142	7.4702	7.4967	0.0130	0.0844	0.3736	0.4580	0.0230	0.3437	0.3667	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Percent Reduction	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
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484
Mobile	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735
Total	2.0138	3.1761	11.7511	0.0339	2.9873	0.0363	3.0235	0.7981	0.0342	0.8323		3,440.7025	3,440.7025	0.1060	1.5900e-003	3,443.8272

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Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484
Mobile	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735
Total	2.0138	3.1761	11.7511	0.0339	2.9873	0.0363	3.0235	0.7981	0.0342	0.8323		3,440.7025	3,440.7025	0.1060	1.5900e-003	3,443.8272

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/9/2022	7/2/2022	6	100	
2	Demolition	Demolition	6/1/2022	5/31/2022	6	0	
3	Site Preparation	Site Preparation	6/15/2022	6/14/2022	6	0	
4	Grading	Grading	6/16/2022	6/15/2022	6	0	
5	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
6	Paving	Paving	11/5/2022	11/4/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,432; Non-Residential Outdoor: 11,144; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40

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Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	7.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

3.1 Mitigation Measures Construction

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0128	0.4291	0.1337	1.0700e-003	0.0269	1.2200e-003	0.0281	7.7400e-003	1.1700e-003	8.9000e-003		111.5083	111.5083	1.7600e-003			111.5525
Worker	0.0337	0.0153	0.2103	5.5000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.7000e-004	0.0156		54.9104	54.9104	1.4900e-003			54.9477
Total	0.0465	0.4444	0.3440	1.6200e-003	0.0844	1.6300e-003	0.0860	0.0230	1.5400e-003	0.0245		166.4187	166.4187	3.2500e-003			166.5002

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570			1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570			1,112.8652

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	103.3049					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	103.5094	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	4.8200e-003	2.1900e-003	0.0300	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.8443	7.8443	2.1000e-004		7.8497
Total	4.8200e-003	2.1900e-003	0.0300	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.8443	7.8443	2.1000e-004		7.8497

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	103.3049					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	103.5094	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Mitigated	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735
Unmitigated	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	97.51	21.75	9.28	177,031	177,031
Regional Shopping Center	574.32	672.10	339.48	972,621	972,621
Total	671.82	693.84	348.76	1,149,652	1,149,652

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
----------	-----	------	------	-----	------	------	-----	-----	------	------	-----	------	----

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484
NaturalGas Unmitigated	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	473.296	5.1000e-003	0.0464	0.0390	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.6819	55.6819	1.0700e-003	1.0200e-003	56.0128
Regional Shopping Center	265.624	2.8600e-003	0.0260	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2499	31.2499	6.0000e-004	5.7000e-004	31.4356
Total		7.9600e-003	0.0724	0.0609	4.4000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.473296	5.1000e-003	0.0464	0.0390	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.6819	55.6819	1.0700e-003	1.0200e-003	56.0128
Regional Shopping Center	0.265624	2.8600e-003	0.0260	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2499	31.2499	6.0000e-004	5.7000e-004	31.4356
Total		7.9600e-003	0.0724	0.0609	4.4000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Unmitigated	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Total	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Total	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Montano - Construction Phase 3 - El Dorado-Mountain County County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Annual

Montano - Construction Phase 1 - HRA Mitigation
El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	4.71	1000sqft	0.11	4,710.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	4.34	1000sqft	0.10	4,340.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Annual

Project Characteristics -

Land Use - Adjusted hotel acreage based on 4-story building

Construction Phase - Adjusted grading phasing to one year

Off-road Equipment -

Off-road Equipment - No Demo

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added trenching equipment since defaults are not provided

Grading - Adjusted total acres graded

Construction Off-road Equipment Mitigation - HRA mitigation: Tier 4 for equipment over 50 hp

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	315.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	787.50	16.80
tblGrading	MaterialExported	0.00	140,000.00
tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LotAcreage	3.33	0.25

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

2.0 Emissions Summary

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.7593	0.8391
2	4-1-2020	6-30-2020	3.6208	1.2520
3	7-1-2020	9-30-2020	4.2456	1.5461
4	10-1-2020	12-31-2020	4.2878	1.5884
5	1-1-2021	3-31-2021	1.5692	0.6926
6	4-1-2021	6-30-2021	1.7398	1.4139
		Highest	4.2878	1.5884

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Energy	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	689.3995	689.3995	0.0267	7.9800e-003	692.4449
Mobile	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.614 4	3,391.614 4	0.1230	0.0000	3,394.688 3
Waste						0.0000	0.0000		0.0000	0.0000	67.6183	0.0000	67.6183	3.9961	0.0000	167.5215
Water						0.0000	0.0000		0.0000	0.0000	3.4202	18.1964	21.6166	0.3521	8.4600e-003	32.9418
Total	2.3548	4.7290	15.7353	0.0382	3.3111	0.0503	3.3614	0.8877	0.0477	0.9354	71.0385	4,099.220 1	4,170.258 6	4.4980	0.0164	4,287.606 9

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Energy	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	689.3995	689.3995	0.0267	7.9800e-003	692.4449
Mobile	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.6144	3,391.6144	0.1230	0.0000	3,394.6883
Waste						0.0000	0.0000		0.0000	0.0000	67.6183	0.0000	67.6183	3.9961	0.0000	167.5215
Water						0.0000	0.0000		0.0000	0.0000	3.4202	18.1964	21.6166	0.3521	8.4600e-003	32.9418
Total	2.3548	4.7290	15.7353	0.0382	3.3111	0.0503	3.3614	0.8877	0.0477	0.9354	71.0385	4,099.2201	4,170.2586	4.4980	0.0164	4,287.6069

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	6	0	
2	Site Preparation	Site Preparation	1/1/2020	1/11/2020	6	10	
3	Grading	Grading	1/13/2020	1/13/2021	6	315	
4	Trenching	Trenching	5/1/2020	5/12/2020	6	10	
5	Building Construction	Building Construction	5/13/2020	4/27/2021	6	300	
6	Paving	Paving	4/28/2021	5/20/2021	6	20	
7	Architectural Coating	Architectural Coating	5/21/2021	6/12/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 16.8

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 142,095; Non-Residential Outdoor: 47,365; Striped Parking Area: 23,949 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	18,094.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349
Total	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	2.3300e-003	0.0101	0.1043	1.9000e-004	0.0903	3.1000e-004	0.0906	0.0497	3.1000e-004	0.0500	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349
Total	4.5000e-004	2.8000e-004	2.9700e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6344	0.6344	2.0000e-005	0.0000	0.6349

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9243	0.0000	0.9243	0.5041	0.0000	0.5041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.6764	7.6300	4.8577	9.4200e-003		0.3304	0.3304		0.3040	0.3040	0.0000	828.1613	828.1613	0.2678	0.0000	834.8574
Total	0.6764	7.6300	4.8577	9.4200e-003	0.9243	0.3304	1.2547	0.5041	0.3040	0.8081	0.0000	828.1613	828.1613	0.2678	0.0000	834.8574

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3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0763	2.9799	0.8479	7.1400e-003	0.1490	0.0118	0.1609	0.0407	0.0113	0.0521	0.0000	677.2948	677.2948	8.6700e-003	0.0000	677.5115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	9.3700e-003	0.1003	2.4000e-004	0.0239	1.9000e-004	0.0241	6.3700e-003	1.7000e-004	6.5400e-003	0.0000	21.4286	21.4286	6.8000e-004	0.0000	21.4457
Total	0.0914	2.9893	0.9483	7.3800e-003	0.1730	0.0120	0.1850	0.0471	0.0115	0.0586	0.0000	698.7234	698.7234	9.3500e-003	0.0000	698.9572

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9243	0.0000	0.9243	0.5041	0.0000	0.5041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1158	0.5016	5.0159	9.4200e-003		0.0154	0.0154		0.0154	0.0154	0.0000	828.1603	828.1603	0.2678	0.0000	834.8564
Total	0.1158	0.5016	5.0159	9.4200e-003	0.9243	0.0154	0.9397	0.5041	0.0154	0.5196	0.0000	828.1603	828.1603	0.2678	0.0000	834.8564

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3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0763	2.9799	0.8479	7.1400e-003	0.1490	0.0118	0.1609	0.0407	0.0113	0.0521	0.0000	677.2948	677.2948	8.6700e-003	0.0000	677.5115
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0151	9.3700e-003	0.1003	2.4000e-004	0.0239	1.9000e-004	0.0241	6.3700e-003	1.7000e-004	6.5400e-003	0.0000	21.4286	21.4286	6.8000e-004	0.0000	21.4457
Total	0.0914	2.9893	0.9483	7.3800e-003	0.1730	0.0120	0.1850	0.0471	0.0115	0.0586	0.0000	698.7234	698.7234	9.3500e-003	0.0000	698.9572

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.2552	0.1698	3.4000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2146
Total	0.0231	0.2552	0.1698	3.4000e-004	0.0420	0.0109	0.0530	0.0192	0.0101	0.0292	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2146

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3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6200e-003	0.1000	0.0288	2.6000e-004	0.1152	3.9000e-004	0.1155	0.0284	3.7000e-004	0.0288	0.0000	24.2693	24.2693	2.9000e-004	0.0000	24.2765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.0000e-004	3.3000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7491	0.7491	2.0000e-005	0.0000	0.7496
Total	3.1400e-003	0.1003	0.0321	2.7000e-004	0.1160	4.0000e-004	0.1164	0.0286	3.8000e-004	0.0290	0.0000	25.0183	25.0183	3.1000e-004	0.0000	25.0261

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0420	0.0000	0.0420	0.0192	0.0000	0.0192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1900e-003	0.0182	0.1815	3.4000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2145
Total	4.1900e-003	0.0182	0.1815	3.4000e-004	0.0420	5.6000e-004	0.0426	0.0192	5.6000e-004	0.0197	0.0000	29.9722	29.9722	9.6900e-003	0.0000	30.2145

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3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6200e-003	0.1000	0.0288	2.6000e-004	0.1152	3.9000e-004	0.1155	0.0284	3.7000e-004	0.0288	0.0000	24.2693	24.2693	2.9000e-004	0.0000	24.2765
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.0000e-004	3.3000e-003	1.0000e-005	8.7000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7491	0.7491	2.0000e-005	0.0000	0.7496
Total	3.1400e-003	0.1003	0.0321	2.7000e-004	0.1160	4.0000e-004	0.1164	0.0286	3.8000e-004	0.0290	0.0000	25.0183	25.0183	3.1000e-004	0.0000	25.0261

3.5 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-003	0.0190	0.0132	2.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944
Total	2.1000e-003	0.0190	0.0132	2.0000e-005		1.4200e-003	1.4200e-003		1.3100e-003	1.3100e-003	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944

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3.5 Trenching - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1000e-004	8.9000e-004	0.0127	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944
Total	2.1000e-004	8.9000e-004	0.0127	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.4824	1.4824	4.8000e-004	0.0000	1.4944

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3.5 Trenching - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2120	1.9186	1.6849	2.6900e-003		0.1117	0.1117		0.1050	0.1050	0.0000	231.6100	231.6100	0.0565	0.0000	233.0226
Total	0.2120	1.9186	1.6849	2.6900e-003		0.1117	0.1117		0.1050	0.1050	0.0000	231.6100	231.6100	0.0565	0.0000	233.0226

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3.6 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.0282	0.3448	2.1800e-003	0.0526	5.8800e-003	0.0585	0.0152	5.6300e-003	0.0208	0.0000	206.2121	206.2121	4.2300e-003	0.0000	206.3179
Worker	0.1016	0.0629	0.6732	1.5900e-003	0.1606	1.2700e-003	0.1619	0.0427	1.1700e-003	0.0439	0.0000	143.7970	143.7970	4.5900e-003	0.0000	143.9117
Total	0.1363	1.0911	1.0180	3.7700e-003	0.2132	7.1500e-003	0.2204	0.0579	6.8000e-003	0.0647	0.0000	350.0091	350.0091	8.8200e-003	0.0000	350.2296

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0626	0.2802	1.7730	2.6900e-003		0.0125	0.0125		0.0125	0.0125	0.0000	231.6097	231.6097	0.0565	0.0000	233.0223
Total	0.0626	0.2802	1.7730	2.6900e-003		0.0125	0.0125		0.0125	0.0125	0.0000	231.6097	231.6097	0.0565	0.0000	233.0223

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3.6 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0347	1.0282	0.3448	2.1800e-003	0.0526	5.8800e-003	0.0585	0.0152	5.6300e-003	0.0208	0.0000	206.2121	206.2121	4.2300e-003	0.0000	206.3179
Worker	0.1016	0.0629	0.6732	1.5900e-003	0.1606	1.2700e-003	0.1619	0.0427	1.1700e-003	0.0439	0.0000	143.7970	143.7970	4.5900e-003	0.0000	143.9117
Total	0.1363	1.0911	1.0180	3.7700e-003	0.2132	7.1500e-003	0.2204	0.0579	6.8000e-003	0.0647	0.0000	350.0091	350.0091	8.8200e-003	0.0000	350.2296

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8186	115.8186	0.0279	0.0000	116.5172
Total	0.0951	0.8716	0.8288	1.3500e-003		0.0479	0.0479		0.0451	0.0451	0.0000	115.8186	115.8186	0.0279	0.0000	116.5172

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.4680	0.1539	1.0800e-003	0.0263	1.4100e-003	0.0277	7.6000e-003	1.3500e-003	8.9500e-003	0.0000	102.3962	102.3962	1.8400e-003	0.0000	102.4422
Worker	0.0478	0.0283	0.3064	7.7000e-004	0.0803	6.1000e-004	0.0809	0.0214	5.6000e-004	0.0219	0.0000	69.4587	69.4587	2.0500e-003	0.0000	69.5100
Total	0.0620	0.4962	0.4603	1.8500e-003	0.1066	2.0200e-003	0.1086	0.0290	1.9100e-003	0.0309	0.0000	171.8549	171.8549	3.8900e-003	0.0000	171.9522

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0293	0.1370	0.8841	1.3500e-003		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	115.8185	115.8185	0.0279	0.0000	116.5171
Total	0.0293	0.1370	0.8841	1.3500e-003		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	115.8185	115.8185	0.0279	0.0000	116.5171

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3.6 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0141	0.4680	0.1539	1.0800e-003	0.0263	1.4100e-003	0.0277	7.6000e-003	1.3500e-003	8.9500e-003	0.0000	102.3962	102.3962	1.8400e-003	0.0000	102.4422
Worker	0.0478	0.0283	0.3064	7.7000e-004	0.0803	6.1000e-004	0.0809	0.0214	5.6000e-004	0.0219	0.0000	69.4587	69.4587	2.0500e-003	0.0000	69.5100
Total	0.0620	0.4962	0.4603	1.8500e-003	0.1066	2.0200e-003	0.1086	0.0290	1.9100e-003	0.0309	0.0000	171.8549	171.8549	3.8900e-003	0.0000	171.9522

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	9.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0219	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222
Total	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	9.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0121	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222
Total	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	1.2386	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.8 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940
Total	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	1.2367	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576

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3.8 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940
Total	1.9200e-003	1.1400e-003	0.0123	3.0000e-005	3.2300e-003	2.0000e-005	3.2500e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.7920	2.7920	8.0000e-005	0.0000	2.7940

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.614 4	3,391.614 4	0.1230	0.0000	3,394.688 3
Unmitigated	1.8178	4.5728	15.5991	0.0373	3.3111	0.0384	3.3495	0.8877	0.0358	0.9235	0.0000	3,391.614 4	3,391.614 4	0.1230	0.0000	3,394.688 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,820.76	2,649.85	1991.78	1,834,672	1,834,672
General Office Building	38.61	8.61	3.68	70,091	70,091
High Turnover (Sit Down Restaurant)	598.88	745.92	620.97	722,890	722,890
Hotel	817.00	819.00	595.00	1,492,531	1,492,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	314.83	330.26	252.56	365,500	365,500
Regional Shopping Center	185.32	216.87	109.54	313,842	313,842
Supermarket	3,064.13	5,322.37	4988.21	4,164,870	4,164,870
Total	6,839.52	10,092.88	8,561.73	8,964,396	8,964,396

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	519.3826	519.3826	0.0235	4.8600e-003	521.4177
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	519.3826	519.3826	0.0235	4.8600e-003	521.4177
NaturalGas Mitigated	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0169	170.0169	3.2600e-003	3.1200e-003	171.0272
NaturalGas Unmitigated	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0169	170.0169	3.2600e-003	3.1200e-003	171.0272

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	426454	2.3000e-003	0.0209	0.0176	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7572	22.7572	4.4000e-004	4.2000e-004	22.8924
General Office Building	68390	3.7000e-004	3.3500e-003	2.8200e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6496	3.6496	7.0000e-005	7.0000e-005	3.6712
High Turnover (Sit Down Restaurant)	547302	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.2061	29.2061	5.6000e-004	5.4000e-004	29.3797
Hotel	935030	5.0400e-003	0.0458	0.0385	2.8000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.8968	49.8968	9.6000e-004	9.1000e-004	50.1933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	406700	2.1900e-003	0.0199	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7031	21.7031	4.2000e-004	4.0000e-004	21.8320
Regional Shopping Center	31291.4	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6698	1.6698	3.0000e-005	3.0000e-005	1.6798
Supermarket	770828	4.1600e-003	0.0378	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1343	41.1343	7.9000e-004	7.5000e-004	41.3788
Total		0.0172	0.1562	0.1312	9.5000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0169	170.0169	3.2700e-003	3.1200e-003	171.0272

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	426454	2.3000e-003	0.0209	0.0176	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7572	22.7572	4.4000e-004	4.2000e-004	22.8924
General Office Building	68390	3.7000e-004	3.3500e-003	2.8200e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6496	3.6496	7.0000e-005	7.0000e-005	3.6712
High Turnover (Sit Down Restaurant)	547302	2.9500e-003	0.0268	0.0225	1.6000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	29.2061	29.2061	5.6000e-004	5.4000e-004	29.3797
Hotel	935030	5.0400e-003	0.0458	0.0385	2.8000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.8968	49.8968	9.6000e-004	9.1000e-004	50.1933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	406700	2.1900e-003	0.0199	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7031	21.7031	4.2000e-004	4.0000e-004	21.8320
Regional Shopping Center	31291.4	1.7000e-004	1.5300e-003	1.2900e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6698	1.6698	3.0000e-005	3.0000e-005	1.6798
Supermarket	770828	4.1600e-003	0.0378	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1343	41.1343	7.9000e-004	7.5000e-004	41.3788
Total		0.0172	0.1562	0.1312	9.5000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0169	170.0169	3.2700e-003	3.1200e-003	171.0272

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	90171.9	26.2320	1.1900e-003	2.5000e-004	26.3348
General Office Building	38710	11.2612	5.1000e-004	1.1000e-004	11.3053
High Turnover (Sit Down Restaurant)	115725	33.6656	1.5200e-003	3.1000e-004	33.7976
Hotel	335998	97.7458	4.4200e-003	9.1000e-004	98.1288
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	85995	25.0169	1.1300e-003	2.3000e-004	25.1150
Regional Shopping Center	58676.8	17.0698	7.7000e-004	1.6000e-004	17.1366
Supermarket	1.02407e+006	297.9151	0.0135	2.7900e-003	299.0825
Total		519.3826	0.0235	4.8600e-003	521.4177

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5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Fast Food Restaurant with Drive Thru	90171.9	26.2320	1.1900e-003	2.5000e-004	26.3348
General Office Building	38710	11.2612	5.1000e-004	1.1000e-004	11.3053
High Turnover (Sit Down Restaurant)	115725	33.6656	1.5200e-003	3.1000e-004	33.7976
Hotel	335998	97.7458	4.4200e-003	9.1000e-004	98.1288
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	85995	25.0169	1.1300e-003	2.3000e-004	25.1150
Regional Shopping Center	58676.8	17.0698	7.7000e-004	1.6000e-004	17.1366
Supermarket	1.02407e+006	297.9151	0.0135	2.7900e-003	299.0825
Total		519.3826	0.0235	4.8600e-003	521.4177

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Unmitigated	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3958					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Total	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3958					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.7000e-004	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105
Total	0.5199	5.0000e-005	5.0400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8100e-003	9.8100e-003	3.0000e-005	0.0000	0.0105

7.0 Water Detail

7.1 Mitigation Measures Water

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.6166	0.3521	8.4600e-003	32.9418
Unmitigated	21.6166	0.3521	8.4600e-003	32.9418

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.11397 / 0.0711044	2.1793	0.0364	8.7000e-004	3.3494
General Office Building	0.622068 / 0.381268	1.5648	0.0203	4.9000e-004	2.2195
High Turnover (Sit Down Restaurant)	1.42964 / 0.0912539	2.7969	0.0467	1.1200e-003	4.2985
Hotel	2.53668 / 0.281853	5.0848	0.0829	1.9900e-003	7.7496
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.06237 / 0.0678107	2.0784	0.0347	8.3000e-004	3.1942
Regional Shopping Center	0.321475 / 0.197033	0.8087	0.0105	2.5000e-004	1.1470
Supermarket	3.69435 / 0.114258	7.1037	0.1207	2.9000e-003	10.9835
Total		21.6166	0.3521	8.4500e-003	32.9418

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	1.11397 / 0.0711044	2.1793	0.0364	8.7000e-004	3.3494
General Office Building	0.622068 / 0.381268	1.5648	0.0203	4.9000e-004	2.2195
High Turnover (Sit Down Restaurant)	1.42964 / 0.0912539	2.7969	0.0467	1.1200e-003	4.2985
Hotel	2.53668 / 0.281853	5.0848	0.0829	1.9900e-003	7.7496
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.06237 / 0.0678107	2.0784	0.0347	8.3000e-004	3.1942
Regional Shopping Center	0.321475 / 0.197033	0.8087	0.0105	2.5000e-004	1.1470
Supermarket	3.69435 / 0.114258	7.1037	0.1207	2.9000e-003	10.9835
Total		21.6166	0.3521	8.4500e-003	32.9418

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	67.6183	3.9961	0.0000	167.5215
Unmitigated	67.6183	3.9961	0.0000	167.5215

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	3.26	0.6618	0.0391	0.0000	1.6395
High Turnover (Sit Down Restaurant)	56.05	11.3776	0.6724	0.0000	28.1876
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	4.56	0.9256	0.0547	0.0000	2.2932
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		67.6183	3.9961	0.0000	167.5215

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	3.26	0.6618	0.0391	0.0000	1.6395
High Turnover (Sit Down Restaurant)	56.05	11.3776	0.6724	0.0000	28.1876
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	4.56	0.9256	0.0547	0.0000	2.2932
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		67.6183	3.9961	0.0000	167.5215

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Montano - Construction Phase 1 - HRA Mitigation
El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	4.71	1000sqft	0.11	4,710.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	4.34	1000sqft	0.10	4,340.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Project Characteristics -

Land Use - Adjusted hotel acreage based on 4-story building

Construction Phase - Adjusted grading phasing to one year

Off-road Equipment -

Off-road Equipment - No Demo

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Added trenching equipment since defaults are not provided

Grading - Adjusted total acres graded

Construction Off-road Equipment Mitigation - HRA mitigation: Tier 4 for equipment over 50 hp

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	315.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	787.50	16.80
tblGrading	MaterialExported	0.00	140,000.00

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

tblGrading	MaterialImported	0.00	43,000.00
tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LotAcreage	3.33	0.25
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	8.6210	99.0565	65.5131	0.1770	18.2141	3.4406	20.4127	9.9699	3.1930	11.9926	0.0000	17,669.4699	17,669.4699	2.7307	0.0000	17,737.7383
2021	124.0720	91.1828	62.7796	0.1758	30.4425	3.0553	33.4978	9.3831	2.8338	12.2170	0.0000	17,543.5718	17,543.5718	2.7072	0.0000	17,611.2516
Maximum	124.0720	99.0565	65.5131	0.1770	30.4425	3.4406	33.4978	9.9699	3.1930	12.2170	0.0000	17,669.4699	17,669.4699	2.7307	0.0000	17,737.7383

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.4387	35.7750	67.4359	0.1770	18.2141	0.3759	18.2773	9.9699	0.3690	10.0330	0.0000	17,669.4698	17,669.4698	2.7307	0.0000	17,737.7383
2021	123.8828	33.3906	66.0073	0.1758	30.4425	0.3249	30.7674	9.3831	0.3196	9.7027	0.0000	17,543.5717	17,543.5717	2.7072	0.0000	17,611.2516
Maximum	123.8828	35.7750	67.4359	0.1770	30.4425	0.3759	30.7674	9.9699	0.3690	10.0330	0.0000	17,669.4698	17,669.4698	2.7307	0.0000	17,737.7383

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Percent Reduction	4.05	63.64	-4.01	0.00	0.00	89.21	9.03	0.00	88.58	18.48	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Energy	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150
Mobile	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411
Total	19.7086	32.6796	112.9725	0.2934	25.0077	0.3438	25.3515	6.6810	0.3252	7.0062		29,926.1035	29,926.1035	0.9948	0.0188	29,956.5841

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Energy	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150
Mobile	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411
Total	19.7086	32.6796	112.9725	0.2934	25.0077	0.3438	25.3515	6.6810	0.3252	7.0062		29,926.1035	29,926.1035	0.9948	0.0188	29,956.5841

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	6	0	
2	Site Preparation	Site Preparation	1/1/2020	1/11/2020	6	10	
3	Grading	Grading	1/13/2020	1/13/2021	6	315	
4	Trenching	Trenching	5/1/2020	5/12/2020	6	10	
5	Building Construction	Building Construction	5/13/2020	4/27/2021	6	300	
6	Paving	Paving	4/28/2021	5/20/2021	6	20	
7	Architectural Coating	Architectural Coating	5/21/2021	6/12/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 16.8

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 142,095; Non-Residential Outdoor: 47,365; Striped Parking Area: 23,949 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	1	8.00	78	0.50
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Grading	8	20.00	0.00	18,094.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	204.00	81.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003			151.6527
Total	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003			151.6527

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	0.4656	2.0175	20.8690	0.0380	18.0663	0.0621	18.1283	9.9307	0.0621	9.9928	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003		151.6527
Total	0.0976	0.0486	0.6443	1.5200e-003	0.1479	1.1200e-003	0.1490	0.0392	1.0300e-003	0.0403		151.5334	151.5334	4.7700e-003		151.6527

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	4.4501	50.1975	31.9583	0.0620	6.0787	2.1739	8.2526	3.3163	2.0000	5.3163		6,005.8653	6,005.8653	1.9424		6,054.4257

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4966	19.0155	5.4645	0.0472	1.0181	0.0773	1.0955	0.2772	0.0740	0.3511		4,934.6529	4,934.6529	0.0613		4,936.1865
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1084	0.0540	0.7159	1.6900e-003	0.1643	1.2500e-003	0.1655	0.0436	1.1500e-003	0.0447		168.3704	168.3704	5.3000e-003		168.5030
Total	0.6051	19.0695	6.1804	0.0489	1.1824	0.0786	1.2610	0.3208	0.0751	0.3959		5,103.0233	5,103.0233	0.0666		5,104.6895

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	0.7616	3.3000	32.9991	0.0620	6.0787	0.1015	6.1802	3.3163	0.1015	3.4179	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4966	19.0155	5.4645	0.0472	1.0181	0.0773	1.0955	0.2772	0.0740	0.3511		4,934.6529	4,934.6529	0.0613		4,936.1865
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1084	0.0540	0.7159	1.6900e-003	0.1643	1.2500e-003	0.1655	0.0436	1.1500e-003	0.0447		168.3704	168.3704	5.3000e-003		168.5030
Total	0.6051	19.0695	6.1804	0.0489	1.1824	0.0786	1.2610	0.3208	0.0751	0.3959		5,103.0233	5,103.0233	0.0666		5,104.6895

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.0787	1.9853	8.0640	3.3163	1.8265	5.1428		6,007.0434	6,007.0434	1.9428		6,055.6134

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4711	17.6418	5.1257	0.0467	21.9788	0.0701	22.0489	5.4221	0.0670	5.4891		4,886.9100	4,886.9100	0.0563		4,888.3179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1021	0.0486	0.6541	1.6300e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447		162.6602	162.6602	4.7500e-003		162.7789
Total	0.5732	17.6903	5.7797	0.0484	22.1431	0.0713	22.2144	5.4656	0.0682	5.5338		5,049.5702	5,049.5702	0.0611		5,051.0968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0787	0.0000	6.0787	3.3163	0.0000	3.3163			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0620		0.1015	0.1015		0.1015	0.1015	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	0.7616	3.3000	32.9991	0.0620	6.0787	0.1015	6.1802	3.3163	0.1015	3.4179	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4711	17.6418	5.1257	0.0467	21.9788	0.0701	22.0489	5.4221	0.0670	5.4891		4,886.9100	4,886.9100	0.0563		4,888.3179
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1021	0.0486	0.6541	1.6300e-003	0.1643	1.2000e-003	0.1655	0.0436	1.1100e-003	0.0447		162.6602	162.6602	4.7500e-003		162.7789
Total	0.5732	17.6903	5.7797	0.0484	22.1431	0.0713	22.2144	5.4656	0.0682	5.5338		5,049.5702	5,049.5702	0.0611		5,051.0968

3.5 Trenching - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4197	3.7966	2.6363	3.3700e-003		0.2843	0.2843		0.2615	0.2615		326.8121	326.8121	0.1057		329.4545
Total	0.4197	3.7966	2.6363	3.3700e-003		0.2843	0.2843		0.2615	0.2615		326.8121	326.8121	0.1057		329.4545

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004		25.2755
Total	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004		25.2755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0413	0.1788	2.5450	3.3700e-003		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	326.8121	326.8121	0.1057		329.4545
Total	0.0413	0.1788	2.5450	3.3700e-003		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	326.8121	326.8121	0.1057		329.4545

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004			25.2755
Total	0.0163	8.1000e-003	0.1074	2.5000e-004	0.0246	1.9000e-004	0.0248	6.5400e-003	1.7000e-004	6.7100e-003		25.2556	25.2556	8.0000e-004			25.2755

3.6 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229			2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229			2,568.6345

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3402	10.0526	3.2240	0.0219	0.5450	0.0584	0.6033	0.1566	0.0558	0.2125		2,290.1402	2,290.1402	0.0447			2,291.2582
Worker	1.1058	0.5509	7.3019	0.0173	1.6758	0.0127	1.6885	0.4445	0.0117	0.4562		1,717.3780	1,717.3780	0.0541			1,718.7304
Total	1.4460	10.6034	10.5259	0.0392	2.2208	0.0711	2.2918	0.6011	0.0675	0.6687		4,007.5182	4,007.5182	0.0988			4,009.9886

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
Total	0.6261	2.8021	17.7304	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.3402	10.0526	3.2240	0.0219	0.5450	0.0584	0.6033	0.1566	0.0558	0.2125		2,290.1402	2,290.1402	0.0447			2,291.2582
Worker	1.1058	0.5509	7.3019	0.0173	1.6758	0.0127	1.6885	0.4445	0.0117	0.4562		1,717.3780	1,717.3780	0.0541			1,718.7304
Total	1.4460	10.6034	10.5259	0.0392	2.2208	0.0711	2.2918	0.6011	0.0675	0.6687		4,007.5182	4,007.5182	0.0988			4,009.9886

3.6 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160			2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160			2,568.7643

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2767	9.1654	2.8750	0.0218	0.5450	0.0278	0.5728	0.1566	0.0266	0.1833		2,274.4606	2,274.4606	0.0389		2,275.4322
Worker	1.0412	0.4952	6.6713	0.0167	1.6758	0.0123	1.6881	0.4445	0.0113	0.4558		1,659.1336	1,659.1336	0.0485		1,660.3449
Total	1.3179	9.6606	9.5463	0.0385	2.2208	0.0401	2.2608	0.6011	0.0379	0.6390		3,933.5943	3,933.5943	0.0873		3,935.7771

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.5867	2.7396	17.6822	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.2767	9.1654	2.8750	0.0218	0.5450	0.0278	0.5728	0.1566	0.0266	0.1833		2,274.4606	2,274.4606	0.0389			2,275.4322
Worker	1.0412	0.4952	6.6713	0.0167	1.6758	0.0123	1.6881	0.4445	0.0113	0.4558		1,659.1336	1,659.1336	0.0485			1,660.3449
Total	1.3179	9.6606	9.5463	0.0385	2.2208	0.0401	2.2608	0.6011	0.0379	0.6390		3,933.5943	3,933.5943	0.0873			3,935.7771

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139			2,225.0573
Paving	0.9314					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	2.1870	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139			2,225.0573

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003			122.0842
Total	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003			122.0842

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139			2,225.0573
Paving	0.9314					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.2119	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.2109	2,207.2109	0.7139			2,225.0573

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003		122.0842
Total	0.0766	0.0364	0.4905	1.2300e-003	0.1232	9.0000e-004	0.1241	0.0327	8.3000e-004	0.0335		121.9951	121.9951	3.5600e-003		122.0842

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.6438					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	123.8627	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003		333.6968
Total	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003		333.6968

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.6438					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
Total	123.6736	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003			333.6968
Total	0.2093	0.0995	1.3408	3.3500e-003	0.3368	2.4600e-003	0.3393	0.0893	2.2700e-003	0.0916		333.4533	333.4533	9.7400e-003			333.6968

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411
Unmitigated	16.7632	31.8234	112.1976	0.2883	25.0077	0.2785	25.2863	6.6810	0.2599	6.9410		28,899.0708	28,899.0708	0.9748		28,923.4411

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	1,820.76	2,649.85	1991.78	1,834,672	1,834,672
General Office Building	38.61	8.61	3.68	70,091	70,091
High Turnover (Sit Down Restaurant)	598.88	745.92	620.97	722,890	722,890
Hotel	817.00	819.00	595.00	1,492,531	1,492,531
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	314.83	330.26	252.56	365,500	365,500
Regional Shopping Center	185.32	216.87	109.54	313,842	313,842
Supermarket	3,064.13	5,322.37	4988.21	4,164,870	4,164,870
Total	6,839.52	10,092.88	8,561.73	8,964,396	8,964,396

4.3 Trip Type Information

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150
NaturalGas Unmitigated	0.0941	0.8558	0.7188	5.1300e-003		0.0650	0.0650		0.0650	0.0650		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	1168.37	0.0126	0.1146	0.0962	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.4550	137.4550	2.6300e-003	2.5200e-003	138.2718
General Office Building	187.37	2.0200e-003	0.0184	0.0154	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.0435	22.0435	4.2000e-004	4.0000e-004	22.1745
High Turnover (Sit Down Restaurant)	1499.46	0.0162	0.1470	0.1235	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.4068	176.4068	3.3800e-003	3.2300e-003	177.4551
Hotel	2561.73	0.0276	0.2512	0.2110	1.5100e-003		0.0191	0.0191		0.0191	0.0191		301.3797	301.3797	5.7800e-003	5.5300e-003	303.1706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1114.25	0.0120	0.1092	0.0918	6.6000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003		131.0878	131.0878	2.5100e-003	2.4000e-003	131.8668
Regional Shopping Center	85.7299	9.2000e-004	8.4000e-003	7.0600e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0859	10.0859	1.9000e-004	1.8000e-004	10.1458
Supermarket	2111.86	0.0228	0.2070	0.1739	1.2400e-003		0.0157	0.0157		0.0157	0.0157		248.4540	248.4540	4.7600e-003	4.5500e-003	249.9304
Total		0.0941	0.8558	0.7188	5.1400e-003		0.0651	0.0651		0.0651	0.0651		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	1.16837	0.0126	0.1146	0.0962	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.4550	137.4550	2.6300e-003	2.5200e-003	138.2718
General Office Building	0.18737	2.0200e-003	0.0184	0.0154	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.0435	22.0435	4.2000e-004	4.0000e-004	22.1745
High Turnover (Sit Down Restaurant)	1.49946	0.0162	0.1470	0.1235	8.8000e-004		0.0112	0.0112		0.0112	0.0112		176.4068	176.4068	3.3800e-003	3.2300e-003	177.4551
Hotel	2.56173	0.0276	0.2512	0.2110	1.5100e-003		0.0191	0.0191		0.0191	0.0191		301.3797	301.3797	5.7800e-003	5.5300e-003	303.1706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.11425	0.0120	0.1092	0.0918	6.6000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003		131.0878	131.0878	2.5100e-003	2.4000e-003	131.8668
Regional Shopping Center	0.0857299	9.2000e-004	8.4000e-003	7.0600e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0859	10.0859	1.9000e-004	1.8000e-004	10.1458
Supermarket	2.11186	0.0228	0.2070	0.1739	1.2400e-003		0.0157	0.0157		0.0157	0.0157		248.4540	248.4540	4.7600e-003	4.5500e-003	249.9304
Total		0.0941	0.8558	0.7188	5.1400e-003		0.0651	0.0651		0.0651	0.0651		1,026.9126	1,026.9126	0.0197	0.0188	1,033.0150

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Unmitigated	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1900e-003	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Total	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280

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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.1900e-003	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280
Total	2.8513	5.1000e-004	0.0560	0.0000		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004		0.1201	0.1201	3.2000e-004		0.1280

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Montano - Construction Phase 1 - HRA Mitigation - El Dorado-Mountain County County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

Montano - Construction Phase 2 - HRA Mitigation
El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.61	1000sqft	0.11	4,607.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
High Turnover (Sit Down Restaurant)	5.19	1000sqft	0.12	5,193.00	0
Regional Shopping Center	13.99	1000sqft	0.32	13,988.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - No demo, site prep, grading, or paving
 Grading -
 Construction Off-road Equipment Mitigation - tier 4 for equipment >50hp

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Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	4,610.00	4,607.00
tblLandUse	LandUseSquareFeet	5,190.00	5,193.00
tblLandUse	LandUseSquareFeet	13,990.00	13,988.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	13.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00

2.0 Emissions Summary

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-14-2021	10-13-2021	0.7386	0.2820
2	10-14-2021	1-13-2022	0.7301	0.2812
3	1-14-2022	4-13-2022	0.6652	0.4744
		Highest	0.7386	0.4744

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Energy	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	157.2226	157.2226	5.9800e-003	1.8600e-003	157.9265
Mobile	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229
Waste						0.0000	0.0000		0.0000	0.0000	16.4199	0.0000	16.4199	0.9704	0.0000	40.6797
Water						0.0000	0.0000		0.0000	0.0000	1.8401	10.5446	12.3847	0.1895	4.5600e-003	18.4809
Total	0.4960	0.9688	3.2367	8.4900e-003	0.7442	0.0113	0.7555	0.1995	0.0108	0.2103	18.2601	917.9456	936.2057	1.1917	6.4200e-003	967.9106

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Energy	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	157.2226	157.2226	5.9800e-003	1.8600e-003	157.9265
Mobile	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229
Waste						0.0000	0.0000		0.0000	0.0000	16.4199	0.0000	16.4199	0.9704	0.0000	40.6797
Water						0.0000	0.0000		0.0000	0.0000	1.8401	10.5446	12.3847	0.1895	4.5600e-003	18.4809
Total	0.4960	0.9688	3.2367	8.4900e-003	0.7442	0.0113	0.7555	0.1995	0.0108	0.2103	18.2601	917.9456	936.2057	1.1917	6.4200e-003	967.9106

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	6/14/2021	2/24/2022	6	220	
2	Demolition	Demolition	7/14/2021	7/13/2021	6	0	
3	Site Preparation	Site Preparation	8/11/2021	8/10/2021	6	0	
4	Grading	Grading	8/14/2021	8/13/2021	6	0	
5	Architectural Coating	Architectural Coating	2/25/2022	3/8/2022	6	10	
6	Paving	Paving	6/28/2022	6/27/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,932; Non-Residential Outdoor: 14,644; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Scrapers	0	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1769	1.3864	1.2597	2.1600e-003		0.0707	0.0707		0.0677	0.0677	0.0000	179.6162	179.6162	0.0353	0.0000	180.4996
Total	0.1769	1.3864	1.2597	2.1600e-003		0.0707	0.0707		0.0677	0.0677	0.0000	179.6162	179.6162	0.0353	0.0000	180.4996

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3.2 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5100e-003	0.0500	0.0164	1.2000e-004	2.8100e-003	1.5000e-004	2.9600e-003	8.1000e-004	1.4000e-004	9.6000e-004	0.0000	10.9349	10.9349	2.0000e-004	0.0000	10.9398
Worker	4.0500e-003	2.4000e-003	0.0260	7.0000e-005	6.8100e-003	5.0000e-005	6.8600e-003	1.8100e-003	5.0000e-005	1.8600e-003	0.0000	5.8904	5.8904	1.7000e-004	0.0000	5.8947
Total	5.5600e-003	0.0524	0.0424	1.9000e-004	9.6200e-003	2.0000e-004	9.8200e-003	2.6200e-003	1.9000e-004	2.8200e-003	0.0000	16.8253	16.8253	3.7000e-004	0.0000	16.8345

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0957	0.4658	1.3495	2.1600e-003		0.0215	0.0215		0.0215	0.0215	0.0000	179.6159	179.6159	0.0353	0.0000	180.4994
Total	0.0957	0.4658	1.3495	2.1600e-003		0.0215	0.0215		0.0215	0.0215	0.0000	179.6159	179.6159	0.0353	0.0000	180.4994

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3.2 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5100e-003	0.0500	0.0164	1.2000e-004	2.8100e-003	1.5000e-004	2.9600e-003	8.1000e-004	1.4000e-004	9.6000e-004	0.0000	10.9349	10.9349	2.0000e-004	0.0000	10.9398
Worker	4.0500e-003	2.4000e-003	0.0260	7.0000e-005	6.8100e-003	5.0000e-005	6.8600e-003	1.8100e-003	5.0000e-005	1.8600e-003	0.0000	5.8904	5.8904	1.7000e-004	0.0000	5.8947
Total	5.5600e-003	0.0524	0.0424	1.9000e-004	9.6200e-003	2.0000e-004	9.8200e-003	2.6200e-003	1.9000e-004	2.8200e-003	0.0000	16.8253	16.8253	3.7000e-004	0.0000	16.8345

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0436	0.3432	0.3373	5.9000e-004		0.0165	0.0165		0.0158	0.0158	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402
Total	0.0436	0.3432	0.3373	5.9000e-004		0.0165	0.0165		0.0158	0.0158	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402

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3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8000e-004	0.0129	4.2000e-003	3.0000e-005	7.6000e-004	4.0000e-005	8.0000e-004	2.2000e-004	3.0000e-005	2.6000e-004	0.0000	2.9492	2.9492	5.0000e-005	0.0000	2.9504
Worker	1.0400e-003	5.9000e-004	6.4600e-003	2.0000e-005	1.8500e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5435	1.5435	4.0000e-005	0.0000	1.5445
Total	1.4200e-003	0.0135	0.0107	5.0000e-005	2.6100e-003	5.0000e-005	2.6600e-003	7.1000e-004	4.0000e-005	7.6000e-004	0.0000	4.4926	4.4926	9.0000e-005	0.0000	4.4949

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0242	0.1233	0.3650	5.9000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402
Total	0.0242	0.1233	0.3650	5.9000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	48.8048	48.8048	9.4200e-003	0.0000	49.0402

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3.5 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.3404	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0657	0.0657	0.0000	0.0000	0.0657
Total	4.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0657	0.0657	0.0000	0.0000	0.0657

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3394					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5000e-004	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.3395	6.4000e-004	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

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3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229
Unmitigated	0.3432	0.9290	3.2029	8.2500e-003	0.7442	8.2700e-003	0.7525	0.1995	7.7200e-003	0.2072	0.0000	750.1779	750.1779	0.0258	0.0000	750.8229

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	58.91	58.91	58.91	114,390	114,390
General Office Building	50.85	11.34	4.84	92,320	92,320
High Turnover (Sit Down Restaurant)	659.91	821.94	684.25	796,560	796,560
Regional Shopping Center	597.37	699.08	353.11	1,011,670	1,011,670
Total	1,367.03	1,591.27	1,101.10	2,014,941	2,014,941

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	113.8055	113.8055	5.1500e-003	1.0600e-003	114.2514
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	113.8055	113.8055	5.1500e-003	1.0600e-003	114.2514
NaturalGas Mitigated	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751
NaturalGas Unmitigated	4.3900e-003	0.0399	0.0335	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	19305	1.0000e-004	9.5000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0302	1.0302	2.0000e-005	2.0000e-005	1.0363
General Office Building	90020.8	4.9000e-004	4.4100e-003	3.7100e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8039	4.8039	9.0000e-005	9.0000e-005	4.8324
High Turnover (Sit Down Restaurant)	603427	3.2500e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2011	32.2011	6.2000e-004	5.9000e-004	32.3925
Regional Shopping Center	100853	5.4000e-004	4.9400e-003	4.1500e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.3819	5.3819	1.0000e-004	1.0000e-004	5.4139
Total		4.3800e-003	0.0399	0.0335	2.5000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	19305	1.0000e-004	9.5000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0302	1.0302	2.0000e-005	2.0000e-005	1.0363
General Office Building	90020.8	4.9000e-004	4.4100e-003	3.7100e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.8039	4.8039	9.0000e-005	9.0000e-005	4.8324
High Turnover (Sit Down Restaurant)	603427	3.2500e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2011	32.2011	6.2000e-004	5.9000e-004	32.3925
Regional Shopping Center	100853	5.4000e-004	4.9400e-003	4.1500e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.3819	5.3819	1.0000e-004	1.0000e-004	5.4139
Total		4.3800e-003	0.0399	0.0335	2.5000e-004		3.0400e-003	3.0400e-003		3.0400e-003	3.0400e-003	0.0000	43.4171	43.4171	8.3000e-004	8.0000e-004	43.6751

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	23540	6.8481	3.1000e-004	6.0000e-005	6.8749
General Office Building	50953.4	14.8229	6.7000e-004	1.4000e-004	14.8810
High Turnover (Sit Down Restaurant)	127592	37.1180	1.6800e-003	3.5000e-004	37.2634
Regional Shopping Center	189118	55.0165	2.4900e-003	5.1000e-004	55.2321
Total		113.8055	5.1500e-003	1.0600e-003	114.2514

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	23540	6.8481	3.1000e-004	6.0000e-005	6.8749
General Office Building	50953.4	14.8229	6.7000e-004	1.4000e-004	14.8810
High Turnover (Sit Down Restaurant)	127592	37.1180	1.6800e-003	3.5000e-004	37.2634
Regional Shopping Center	189118	55.0165	2.4900e-003	5.1000e-004	55.2321
Total		113.8055	5.1500e-003	1.0600e-003	114.2514

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Unmitigated	0.1484	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Total	0.1483	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0339					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004
Total	0.1483	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.2000e-004	5.2000e-004	0.0000	0.0000	5.6000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.3847	0.1895	4.5600e-003	18.4809
Unmitigated	12.3847	0.1895	4.5600e-003	18.4809

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	2.36924 / 0.151228	4.6351	0.0774	1.8600e-003	7.1236
General Office Building	0.819353 / 0.502184	2.0610	0.0268	6.5000e-004	2.9234
High Turnover (Sit Down Restaurant)	1.57534 / 0.100554	3.0819	0.0515	1.2400e-003	4.7366
Regional Shopping Center	1.03627 / 0.635136	2.6067	0.0339	8.2000e-004	3.6974
Total		12.3847	0.1895	4.5700e-003	18.4809

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	2.36924 / 0.151228	4.6351	0.0774	1.8600e-003	7.1236
General Office Building	0.819353 / 0.502184	2.0610	0.0268	6.5000e-004	2.9234
High Turnover (Sit Down Restaurant)	1.57534 / 0.100554	3.0819	0.0515	1.2400e-003	4.7366
Regional Shopping Center	1.03627 / 0.635136	2.6067	0.0339	8.2000e-004	3.6974
Total		12.3847	0.1895	4.5700e-003	18.4809

8.0 Waste Detail

8.1 Mitigation Measures Waste

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.4199	0.9704	0.0000	40.6797
Unmitigated	16.4199	0.9704	0.0000	40.6797

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
General Office Building	4.29	0.8708	0.0515	0.0000	2.1575
High Turnover (Sit Down Restaurant)	61.76	12.5367	0.7409	0.0000	31.0592
Regional Shopping Center	14.69	2.9819	0.1762	0.0000	7.3876
Total		16.4199	0.9704	0.0000	40.6797

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
General Office Building	4.29	0.8708	0.0515	0.0000	2.1575
High Turnover (Sit Down Restaurant)	61.76	12.5367	0.7409	0.0000	31.0592
Regional Shopping Center	14.69	2.9819	0.1762	0.0000	7.3876
Total		16.4199	0.9704	0.0000	40.6797

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Annual

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Montano - Construction Phase 2 - HRA Mitigation
El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.61	1000sqft	0.11	4,607.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
High Turnover (Sit Down Restaurant)	5.19	1000sqft	0.12	5,193.00	0
Regional Shopping Center	13.99	1000sqft	0.32	13,988.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - No demo, site prep, grading, or paving

Grading -

Construction Off-road Equipment Mitigation - tier 4 for equipment >50hp

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	4,610.00	4,607.00
tblLandUse	LandUseSquareFeet	5,190.00	5,193.00
tblLandUse	LandUseSquareFeet	13,990.00	13,988.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	13.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Year	lb/day										lb/day					
2021	2.1132	16.6176	15.0674	0.0272	0.1158	0.8196	0.9354	0.0315	0.7853	0.8167	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418
2022	68.0891	15.1623	14.8208	0.0271	0.1158	0.7043	0.8201	0.0315	0.6751	0.7066	0.0000	2,507.1101	2,507.1101	0.4460	0.0000	2,518.2603
Maximum	68.0891	16.6176	15.0674	0.0272	0.1158	0.8196	0.9354	0.0315	0.7853	0.8167	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.1742	5.9752	16.1059	0.0272	0.1158	0.2511	0.3669	0.0315	0.2510	0.2824	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418
2022	67.9143	5.8055	16.0000	0.0271	0.1158	0.2202	0.3360	0.0315	0.2201	0.2515	0.0000	2,507.1101	2,507.1101	0.4460	0.0000	2,518.2603
Maximum	67.9143	5.9752	16.1059	0.0272	0.1158	0.2511	0.3669	0.0315	0.2510	0.2824	0.0000	2,510.6644	2,510.6644	0.4551	0.0000	2,522.0418

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Percent Reduction	1.59	62.93	-7.42	0.00	0.00	69.07	59.96	0.00	67.75	64.95	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Energy	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004
Mobile	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270
Total	3.6500	6.0278	21.4115	0.0592	5.1120	0.0710	5.1830	1.3657	0.0674	1.4331		6,071.5963	6,071.5963	0.1922	4.8100e-003	6,077.8342

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Energy	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004
Mobile	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270
Total	3.6500	6.0278	21.4115	0.0592	5.1120	0.0710	5.1830	1.3657	0.0674	1.4331		6,071.5963	6,071.5963	0.1922	4.8100e-003	6,077.8342

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	6/14/2021	2/24/2022	6	220	
2	Demolition	Demolition	7/14/2021	7/13/2021	6	0	
3	Site Preparation	Site Preparation	8/11/2021	8/10/2021	6	0	
4	Grading	Grading	8/14/2021	8/13/2021	6	0	
5	Architectural Coating	Architectural Coating	2/25/2022	3/8/2022	6	10	
6	Paving	Paving	6/28/2022	6/27/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 43,932; Non-Residential Outdoor: 14,644; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Scrapers	0	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	10.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
Total	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0171	0.5658	0.1775	1.3400e-003	0.0336	1.7200e-003	0.0354	9.6700e-003	1.6400e-003	0.0113		140.3988	140.3988	2.4000e-003		140.4588
Worker	0.0510	0.0243	0.3270	8.2000e-004	0.0822	6.0000e-004	0.0828	0.0218	5.5000e-004	0.0223		81.3301	81.3301	2.3800e-003		81.3895
Total	0.0681	0.5900	0.5045	2.1600e-003	0.1158	2.3200e-003	0.1181	0.0315	2.1900e-003	0.0337		221.7289	221.7289	4.7800e-003		221.8482

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1061	5.3852	15.6014	0.0250		0.2488	0.2488		0.2488	0.2488	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
Total	1.1061	5.3852	15.6014	0.0250		0.2488	0.2488		0.2488	0.2488	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0171	0.5658	0.1775	1.3400e-003	0.0336	1.7200e-003	0.0354	9.6700e-003	1.6400e-003	0.0113		140.3988	140.3988	2.4000e-003		140.4588
Worker	0.0510	0.0243	0.3270	8.2000e-004	0.0822	6.0000e-004	0.0828	0.0218	5.5000e-004	0.0223		81.3301	81.3301	2.3800e-003		81.3895
Total	0.0681	0.5900	0.5045	2.1600e-003	0.1158	2.3200e-003	0.1181	0.0315	2.1900e-003	0.0337		221.7289	221.7289	4.7800e-003		221.8482

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0160	0.5364	0.1671	1.3300e-003	0.0336	1.5200e-003	0.0352	9.6700e-003	1.4600e-003	0.0111		139.3854	139.3854	2.2100e-003		139.4406
Worker	0.0482	0.0219	0.3004	7.9000e-004	0.0822	5.8000e-004	0.0827	0.0218	5.3000e-004	0.0223		78.4434	78.4434	2.1300e-003		78.4967
Total	0.0642	0.5583	0.4675	2.1200e-003	0.1158	2.1000e-003	0.1179	0.0315	1.9900e-003	0.0335		217.8289	217.8289	4.3400e-003		217.9373

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0283	5.2472	15.5324	0.0250		0.2181	0.2181		0.2181	0.2181	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.0283	5.2472	15.5324	0.0250		0.2181	0.2181		0.2181	0.2181	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	67.8749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	68.0795	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.6400e-003	4.3800e-003	0.0601	1.6000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4600e-003		15.6887	15.6887	4.3000e-004		15.6994
Total	9.6400e-003	4.3800e-003	0.0601	1.6000e-004	0.0164	1.2000e-004	0.0166	4.3600e-003	1.1000e-004	4.4600e-003		15.6887	15.6887	4.3000e-004		15.6994

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	67.8749					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
Total	67.9047	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270
Unmitigated	2.8129	5.8092	21.2249	0.0579	5.1120	0.0544	5.1664	1.3657	0.0508	1.4165		5,809.3479	5,809.3479	0.1872		5,814.0270

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	58.91	58.91	58.91	114,390	114,390
General Office Building	50.85	11.34	4.84	92,320	92,320
High Turnover (Sit Down Restaurant)	659.91	821.94	684.25	796,560	796,560
Regional Shopping Center	597.37	699.08	353.11	1,011,670	1,011,670
Total	1,367.03	1,591.27	1,101.10	2,014,941	2,014,941

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004
NaturalGas Unmitigated	0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	52.8904	5.7000e-004	5.1900e-003	4.3600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.2224	6.2224	1.2000e-004	1.1000e-004	6.2594
General Office Building	246.632	2.6600e-003	0.0242	0.0203	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003		29.0156	29.0156	5.6000e-004	5.3000e-004	29.1880
High Turnover (Sit Down Restaurant)	1653.22	0.0178	0.1621	0.1362	9.7000e-004		0.0123	0.0123		0.0123	0.0123		194.4969	194.4969	3.7300e-003	3.5700e-003	195.6527
Regional Shopping Center	276.311	2.9800e-003	0.0271	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003		32.5072	32.5072	6.2000e-004	6.0000e-004	32.7003
Total		0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	0.0528904	5.7000e-004	5.1900e-003	4.3600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.2224	6.2224	1.2000e-004	1.1000e-004	6.2594
General Office Building	0.246632	2.6600e-003	0.0242	0.0203	1.5000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003		29.0156	29.0156	5.6000e-004	5.3000e-004	29.1880
High Turnover (Sit Down Restaurant)	1.65322	0.0178	0.1621	0.1362	9.7000e-004		0.0123	0.0123		0.0123	0.0123		194.4969	194.4969	3.7300e-003	3.5700e-003	195.6527
Regional Shopping Center	0.276311	2.9800e-003	0.0271	0.0228	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003		32.5072	32.5072	6.2000e-004	6.0000e-004	32.7003
Total		0.0240	0.2185	0.1836	1.3100e-003		0.0166	0.0166		0.0166	0.0166		262.2420	262.2420	5.0300e-003	4.8100e-003	263.8004

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Unmitigated	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Total	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8000e-004	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003
Total	0.8130	3.0000e-005	2.9900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		6.4100e-003	6.4100e-003	2.0000e-005		6.8300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Montano - Construction Phase 2 - HRA Mitigation - El Dorado-Mountain County County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Annual

Montano - Construction Phase 3 - HRA Mitigation
El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.84	1000sqft	0.20	8,841.00	0
Regional Shopping Center	13.45	1000sqft	0.31	13,447.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Building's 1 and 2 retail sqft combined
 Construction Phase - No demo, site prep, grading, or paving
 Grading -
 Construction Off-road Equipment Mitigation - tier for equipment >50hp

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	8,840.00	8,841.00
tblLandUse	LandUseSquareFeet	13,450.00	13,447.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	18.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.3373	0.2387
		Highest	0.3373	0.2387

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Energy	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	95.7270	95.7270	3.9500e-003	1.0200e-003	96.1312
Mobile	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244
Waste						0.0000	0.0000		0.0000	0.0000	4.5348	0.0000	4.5348	0.2680	0.0000	11.2348
Water						0.0000	0.0000		0.0000	0.0000	0.8145	5.6437	6.4582	0.0839	2.0300e-003	9.1605
Total	0.2814	0.4998	1.7054	4.7200e-003	0.4246	5.5600e-003	0.4302	0.1138	5.2600e-003	0.1191	5.3494	524.0476	529.3970	0.3698	3.0500e-003	539.5513

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Energy	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	95.7270	95.7270	3.9500e-003	1.0200e-003	96.1312
Mobile	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244
Waste						0.0000	0.0000		0.0000	0.0000	4.5348	0.0000	4.5348	0.2680	0.0000	11.2348
Water						0.0000	0.0000		0.0000	0.0000	0.8145	5.6437	6.4582	0.0839	2.0300e-003	9.1605
Total	0.2814	0.4998	1.7054	4.7200e-003	0.4246	5.5600e-003	0.4302	0.1138	5.2600e-003	0.1191	5.3494	524.0476	529.3970	0.3698	3.0500e-003	539.5513

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/9/2022	7/2/2022	6	100	
2	Demolition	Demolition	6/1/2022	5/31/2022	6	0	
3	Site Preparation	Site Preparation	6/15/2022	6/14/2022	6	0	
4	Grading	Grading	6/16/2022	6/15/2022	6	0	
5	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
6	Paving	Paving	11/5/2022	11/4/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,432; Non-Residential Outdoor: 11,144; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	7.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787
Total	0.0343	0.3513	0.3576	5.7000e-004		0.0186	0.0186		0.0171	0.0171	0.0000	50.0739	50.0739	0.0162	0.0000	50.4787

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3.2 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5000e-004	0.0219	7.1500e-003	5.0000e-005	1.3000e-003	6.0000e-005	1.3600e-003	3.8000e-004	6.0000e-005	4.3000e-004	0.0000	5.0198	5.0198	8.0000e-005	0.0000	5.0219
Worker	1.5500e-003	8.7000e-004	9.6200e-003	3.0000e-005	2.7600e-003	2.0000e-005	2.7800e-003	7.3000e-004	2.0000e-005	7.5000e-004	0.0000	2.2988	2.2988	6.0000e-005	0.0000	2.3004
Total	2.2000e-003	0.0228	0.0168	8.0000e-005	4.0600e-003	8.0000e-005	4.1400e-003	1.1100e-003	8.0000e-005	1.1800e-003	0.0000	7.3186	7.3186	1.4000e-004	0.0000	7.3223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9800e-003	0.0303	0.3863	5.7000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787
Total	6.9800e-003	0.0303	0.3863	5.7000e-004		9.3000e-004	9.3000e-004		9.3000e-004	9.3000e-004	0.0000	50.0738	50.0738	0.0162	0.0000	50.4787

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3.5 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.2588	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0164	0.0164	0.0000	0.0000	0.0164
Total	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0164	0.0164	0.0000	0.0000	0.0164

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2583					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-005	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
Total	0.2583	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394

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3.7 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244
Unmitigated	0.1671	0.4865	1.6940	4.6400e-003	0.4246	4.5600e-003	0.4292	0.1138	4.2600e-003	0.1181	0.0000	422.6766	422.6766	0.0139	0.0000	423.0244

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	97.51	21.75	9.28	177,031	177,031
Regional Shopping Center	574.32	672.10	339.48	972,621	972,621
Total	671.82	693.84	348.76	1,149,652	1,149,652

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.3345	81.3345	3.6800e-003	7.6000e-004	81.6532
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.3345	81.3345	3.6800e-003	7.6000e-004	81.6532
NaturalGas Mitigated	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781
NaturalGas Unmitigated	1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	172753	9.3000e-004	8.4700e-003	7.1100e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.2188	9.2188	1.8000e-004	1.7000e-004	9.2736
Regional Shopping Center	96952.9	5.2000e-004	4.7500e-003	3.9900e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1738	5.1738	1.0000e-004	9.0000e-005	5.2045
Total		1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	172753	9.3000e-004	8.4700e-003	7.1100e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	9.2188	9.2188	1.8000e-004	1.7000e-004	9.2736
Regional Shopping Center	96952.9	5.2000e-004	4.7500e-003	3.9900e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1738	5.1738	1.0000e-004	9.0000e-005	5.2045
Total		1.4500e-003	0.0132	0.0111	8.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	14.3925	14.3925	2.8000e-004	2.6000e-004	14.4781

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	97781.5	28.4458	1.2900e-003	2.7000e-004	28.5572
Regional Shopping Center	181803	52.8887	2.3900e-003	4.9000e-004	53.0959
Total		81.3345	3.6800e-003	7.6000e-004	81.6532

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	97781.5	28.4458	1.2900e-003	2.7000e-004	28.5572
Regional Shopping Center	181803	52.8887	2.3900e-003	4.9000e-004	53.0959
Total		81.3345	3.6800e-003	7.6000e-004	81.6532

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Unmitigated	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Total	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004
Total	0.1129	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.0000e-004	4.0000e-004	0.0000	0.0000	4.2000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.4582	0.0839	2.0300e-003	9.1605
Unmitigated	6.4582	0.0839	2.0300e-003	9.1605

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.57117 / 0.962973	3.9522	0.0514	1.2400e-003	5.6058
Regional Shopping Center	0.996275 / 0.61062	2.5061	0.0326	7.9000e-004	3.5547
Total		6.4582	0.0839	2.0300e-003	9.1605

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.57117 / 0.962973	3.9522	0.0514	1.2400e-003	5.6058
Regional Shopping Center	0.996275 / 0.61062	2.5061	0.0326	7.9000e-004	3.5547
Total		6.4582	0.0839	2.0300e-003	9.1605

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.5348	0.2680	0.0000	11.2348
Unmitigated	4.5348	0.2680	0.0000	11.2348

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	8.22	1.6686	0.0986	0.0000	4.1339
Regional Shopping Center	14.12	2.8662	0.1694	0.0000	7.1010
Total		4.5348	0.2680	0.0000	11.2348

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	8.22	1.6686	0.0986	0.0000	4.1339
Regional Shopping Center	14.12	2.8662	0.1694	0.0000	7.1010
Total		4.5348	0.2680	0.0000	11.2348

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Montano - Construction Phase 3 - HRA Mitigation
El Dorado-Mountain County County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.84	1000sqft	0.20	8,841.00	0
Regional Shopping Center	13.45	1000sqft	0.31	13,447.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - Building's 1 and 2 retail sqft combined
 Construction Phase - No demo, site prep, grading, or paving
 Grading -
 Construction Off-road Equipment Mitigation - tier for equipment >50hp

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	8,840.00	8,841.00
tblLandUse	LandUseSquareFeet	13,450.00	13,447.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	18.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	103.5142	7.4702	7.4967	0.0130	0.0844	0.3736	0.4580	0.0230	0.3437	0.3667	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654
Maximum	103.5142	7.4702	7.4967	0.0130	0.0844	0.3736	0.4580	0.0230	0.3437	0.3667	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	103.3394	1.0496	8.0701	0.0130	0.0844	0.0203	0.1047	0.0230	0.0202	0.0432	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654
Maximum	103.3394	1.0496	8.0701	0.0130	0.0844	0.0203	0.1047	0.0230	0.0202	0.0432	0.0000	1,270.3581	1,270.3581	0.3603	0.0000	1,279.3654

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Percent Reduction	0.17	85.95	-7.65	0.00	0.00	94.58	77.15	0.00	94.13	88.23	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484
Mobile	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735
Total	2.0138	3.1761	11.7511	0.0339	2.9873	0.0363	3.0235	0.7981	0.0342	0.8323		3,440.7025	3,440.7025	0.1060	1.5900e-003	3,443.8272

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Energy	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484
Mobile	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735
Total	2.0138	3.1761	11.7511	0.0339	2.9873	0.0363	3.0235	0.7981	0.0342	0.8323		3,440.7025	3,440.7025	0.1060	1.5900e-003	3,443.8272

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	3/9/2022	7/2/2022	6	100	
2	Demolition	Demolition	6/1/2022	5/31/2022	6	0	
3	Site Preparation	Site Preparation	6/15/2022	6/14/2022	6	0	
4	Grading	Grading	6/16/2022	6/15/2022	6	0	
5	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
6	Paving	Paving	11/5/2022	11/4/2022	6	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,432; Non-Residential Outdoor: 11,144; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40

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Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	7.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0128	0.4291	0.1337	1.0700e-003	0.0269	1.2200e-003	0.0281	7.7400e-003	1.1700e-003	8.9000e-003		111.5083	111.5083	1.7600e-003		111.5525
Worker	0.0337	0.0153	0.2103	5.5000e-004	0.0575	4.1000e-004	0.0579	0.0153	3.7000e-004	0.0156		54.9104	54.9104	1.4900e-003		54.9477
Total	0.0465	0.4444	0.3440	1.6200e-003	0.0844	1.6300e-003	0.0860	0.0230	1.5400e-003	0.0245		166.4187	166.4187	3.2500e-003		166.5002

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	103.3049					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	103.5094	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	4.8200e-003	2.1900e-003	0.0300	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.8443	7.8443	2.1000e-004		7.8497
Total	4.8200e-003	2.1900e-003	0.0300	8.0000e-005	8.2100e-003	6.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.8443	7.8443	2.1000e-004		7.8497

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	103.3049					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
Total	103.3346	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Unmitigated	1.3871	3.1037	11.6880	0.0334	2.9873	0.0307	3.0180	0.7981	0.0287	0.8268		3,353.7658	3,353.7658	0.1043		3,356.3735
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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	97.51	21.75	9.28	177,031	177,031
Regional Shopping Center	574.32	672.10	339.48	972,621	972,621
Total	671.82	693.84	348.76	1,149,652	1,149,652

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484
NaturalGas Unmitigated	7.9700e-003	0.0724	0.0609	4.3000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	473.296	5.1000e-003	0.0464	0.0390	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.6819	55.6819	1.0700e-003	1.0200e-003	56.0128
Regional Shopping Center	265.624	2.8600e-003	0.0260	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2499	31.2499	6.0000e-004	5.7000e-004	31.4356
Total		7.9600e-003	0.0724	0.0609	4.4000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.473296	5.1000e-003	0.0464	0.0390	2.8000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003		55.6819	55.6819	1.0700e-003	1.0200e-003	56.0128
Regional Shopping Center	0.265624	2.8600e-003	0.0260	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.2499	31.2499	6.0000e-004	5.7000e-004	31.4356
Total		7.9600e-003	0.0724	0.0609	4.4000e-004		5.5100e-003	5.5100e-003		5.5100e-003	5.5100e-003		86.9318	86.9318	1.6700e-003	1.5900e-003	87.4484

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Unmitigated	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
Total	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1415					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4770					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Total	0.6187	2.0000e-005	2.2800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.8800e-003	4.8800e-003	1.0000e-005		5.2000e-003
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7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Montano - Construction Phase 3 - HRA Mitigation - El Dorado-Mountain County County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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Montano - Operations
El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
General Office Building	14.69	1000sqft	0.34	14,694.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
City Park	2.90	Acre	2.90	126,324.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	9.91	1000sqft	0.23	9,907.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	31.78	1000sqft	0.73	31,776.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted hotel square footage based on 4-story building

Construction Phase - Operations phase

Off-road Equipment - Operations phase

Grading - Adjusted total acres graded

Water And Wastewater - 100% aerobic

Building water use is 87 EDUs

Irrigation water use is 3 EDUs

1 EDU = 240 gal/day

Land Use Change -

Sequestration -

Energy Mitigation - 30% improvement in Title 24 to meet 2019 Standards

Water Mitigation - Default % reductions used. Defaults are based on 2016 Title 24 Standards, therefore water use is conservative.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	14,690.00	14,694.00
tblLandUse	LandUseSquareFeet	9,910.00	9,907.00

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tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LandUseSquareFeet	31,780.00	31,776.00
tblLandUse	LotAcreage	3.33	0.25
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSequestration	NumberOfNewTrees	0.00	507.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	469.36
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblVehicleTrips	ST_TR	10.71	3.76
tblVehicleTrips	ST_TR	22.75	7.98
tblVehicleTrips	ST_TR	722.03	253.17
tblVehicleTrips	ST_TR	2.46	0.86

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tblVehicleTrips	ST_TR	158.37	55.53
tblVehicleTrips	ST_TR	8.19	2.87
tblVehicleTrips	ST_TR	94.36	33.09
tblVehicleTrips	ST_TR	49.97	17.52
tblVehicleTrips	ST_TR	177.59	62.27
tblVehicleTrips	SU_TR	10.71	4.65
tblVehicleTrips	SU_TR	16.74	7.26
tblVehicleTrips	SU_TR	542.72	235.42
tblVehicleTrips	SU_TR	1.05	0.46
tblVehicleTrips	SU_TR	131.84	57.19
tblVehicleTrips	SU_TR	5.95	2.58
tblVehicleTrips	SU_TR	72.16	31.30
tblVehicleTrips	SU_TR	25.24	10.95
tblVehicleTrips	SU_TR	166.44	72.20
tblVehicleTrips	WD_TR	10.71	5.25
tblVehicleTrips	WD_TR	1.89	0.93
tblVehicleTrips	WD_TR	496.12	243.35
tblVehicleTrips	WD_TR	11.03	5.41
tblVehicleTrips	WD_TR	127.15	62.37
tblVehicleTrips	WD_TR	8.17	4.01
tblVehicleTrips	WD_TR	89.95	44.12
tblVehicleTrips	WD_TR	42.70	20.95
tblVehicleTrips	WD_TR	102.24	50.15
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,369,235.65	0.00
tblWater	IndoorWaterUseRate	1,113,968.72	0.00
tblWater	IndoorWaterUseRate	3,232,976.88	0.00
tblWater	IndoorWaterUseRate	3,008,019.09	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	1,062,367.99	0.00
tblWater	IndoorWaterUseRate	2,354,024.73	7,621,200.00
tblWater	IndoorWaterUseRate	3,694,348.40	0.00
tblWater	OutdoorWaterUseRate	151,227.81	0.00
tblWater	OutdoorWaterUseRate	3,455,295.91	262,800.00
tblWater	OutdoorWaterUseRate	71,104.39	0.00
tblWater	OutdoorWaterUseRate	1,981,501.96	0.00
tblWater	OutdoorWaterUseRate	192,001.22	0.00

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tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	67,810.72	0.00
tblWater	OutdoorWaterUseRate	1,442,789.35	0.00
tblWater	OutdoorWaterUseRate	114,258.20	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Energy	0.0232	0.2105	0.1768	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	947.7150	947.7150	0.0369	0.0109	951.8923
Mobile	1.0663	2.7472	9.4049	0.0231	2.0599	0.0235	2.0834	0.5522	0.0220	0.5742	0.0000	2,097.9905	2,097.9905	0.0747	0.0000	2,099.8575
Stationary	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Waste						0.0000	0.0000		0.0000	0.0000	88.8816	0.0000	88.8816	5.2528	0.0000	220.2005
Water						0.0000	0.0000		0.0000	0.0000	2.6964	12.2643	14.9607	9.8400e-003	5.9800e-003	16.9882
Total	1.8785	2.9588	9.5882	0.0243	2.0599	0.0396	2.0995	0.5522	0.0380	0.5903	91.5780	3,058.1592	3,149.7372	5.3742	0.0169	3,289.1291

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Energy	0.0187	0.1702	0.1429	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	863.7781	863.7781	0.0342	9.7400e-003	867.5376
Mobile	1.0663	2.7472	9.4049	0.0231	2.0599	0.0235	2.0834	0.5522	0.0220	0.5742	0.0000	2,097.9905	2,097.9905	0.0747	0.0000	2,099.8575
Stationary	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Waste						0.0000	0.0000		0.0000	0.0000	88.8816	0.0000	88.8816	5.2528	0.0000	220.2005
Water						0.0000	0.0000		0.0000	0.0000	2.1571	9.8486	12.0057	7.8700e-003	4.7800e-003	13.6279
Total	1.8741	2.9184	9.5543	0.0241	2.0599	0.0365	2.0964	0.5522	0.0350	0.5872	91.0387	2,971.8066	3,062.8453	5.3696	0.0145	3,201.4141

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.24	1.36	0.35	0.99	0.00	7.75	0.15	0.00	8.07	0.52	0.59	2.82	2.76	0.09	14.08	2.67

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	358.9560
Total	358.9560

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	12/31/2019	5	0	
2	Building Construction	Building Construction	2/12/2020	2/11/2020	5	0	
3	Paving	Paving	4/7/2021	4/6/2021	5	0	
4	Architectural Coating	Architectural Coating	5/5/2021	5/4/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 221,336; Non-Residential Outdoor: 73,779; Striped Parking Area: 23,949 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	0	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	275.00	110.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0663	2.7472	9.4049	0.0231	2.0599	0.0235	2.0834	0.5522	0.0220	0.5742	0.0000	2,097.9905	2,097.9905	0.0747	0.0000	2,099.8575
Unmitigated	1.0663	2.7472	9.4049	0.0231	2.0599	0.0235	2.0834	0.5522	0.0220	0.5742	0.0000	2,097.9905	2,097.9905	0.0747	0.0000	2,099.8575

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	28.88	20.68	25.58	52,885	52,885
City Park	2.70	23.14	21.05	17,591	17,591
Fast Food Restaurant with Drive Thru	893.09	929.13	863.99	835,366	835,366
General Office Building	18.94	3.01	1.61	33,899	33,899
General Office Building	79.47	12.63	6.76	142,277	142,277
High Turnover (Sit Down Restaurant)	618.09	550.30	566.75	697,400	697,400
Hotel	401.00	287.00	258.00	692,118	692,118
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	154.42	115.82	109.55	169,023	169,023
Regional Shopping Center	665.79	556.79	347.99	1,060,432	1,060,432
Supermarket	1,503.00	1,866.23	2163.83	1,875,976	1,875,976
Total	4,365.37	4,364.73	4,365.12	5,576,967	5,576,967

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4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
City Park	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	678.5344	678.5344	0.0307	6.3500e-003	681.1931
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	718.5641	718.5641	0.0325	6.7200e-003	721.3796
NaturalGas Mitigated	0.0187	0.1702	0.1429	1.0200e-003			0.0129	0.0129		0.0129	0.0000	185.2437	185.2437	3.5500e-003	3.4000e-003	186.3445
NaturalGas Unmitigated	0.0232	0.2105	0.1768	1.2600e-003			0.0160	0.0160		0.0160	0.0000	229.1510	229.1510	4.3900e-003	4.2000e-003	230.5127

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	19305	1.0000e-004	9.5000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0302	1.0302	2.0000e-005	2.0000e-005	1.0363
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	426454	2.3000e-003	0.0209	0.0176	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7572	22.7572	4.4000e-004	4.2000e-004	22.8924
General Office Building	287121	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3219	15.3219	2.9000e-004	2.8000e-004	15.4129
General Office Building	68390	3.7000e-004	3.3500e-003	2.8200e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6496	3.6496	7.0000e-005	7.0000e-005	3.6712
High Turnover (Sit Down Restaurant)	1.15119e+006	6.2100e-003	0.0564	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4321	61.4321	1.1800e-003	1.1300e-003	61.7971
Hotel	935030	5.0400e-003	0.0458	0.0385	2.8000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.8968	49.8968	9.6000e-004	9.1000e-004	50.1933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	406700	2.1900e-003	0.0199	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7031	21.7031	4.2000e-004	4.0000e-004	21.8320
Regional Shopping Center	229105	1.2400e-003	0.0112	9.4300e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	12.2259	12.2259	2.3000e-004	2.2000e-004	12.2986
Supermarket	770828	4.1600e-003	0.0378	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1343	41.1343	7.9000e-004	7.5000e-004	41.3788
Total		0.0232	0.2105	0.1768	1.2800e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.1510	229.1510	4.4000e-003	4.2000e-003	230.5127

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	14025	8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7484	0.7484	1.0000e-005	1.0000e-005	0.7529
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	396011	2.1400e-003	0.0194	0.0163	1.2000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	21.1327	21.1327	4.1000e-004	3.9000e-004	21.2583
General Office Building	200985	1.0800e-003	9.8500e-003	8.2800e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.7253	10.7253	2.1000e-004	2.0000e-004	10.7890
General Office Building	47873	2.6000e-004	2.3500e-003	1.9700e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5547	2.5547	5.0000e-005	5.0000e-005	2.5699
High Turnover (Sit Down Restaurant)	1.06901e+006	5.7600e-003	0.0524	0.0440	3.1000e-004		3.9800e-003	3.9800e-003		3.9800e-003	3.9800e-003	0.0000	57.0467	57.0467	1.0900e-003	1.0500e-003	57.3857
Hotel	655197	3.5300e-003	0.0321	0.0270	1.9000e-004		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	34.9638	34.9638	6.7000e-004	6.4000e-004	35.1716
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	377668	2.0400e-003	0.0185	0.0156	1.1000e-004		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	20.1538	20.1538	3.9000e-004	3.7000e-004	20.2735
Regional Shopping Center	160373	8.6000e-004	7.8600e-003	6.6000e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5581	8.5581	1.6000e-004	1.6000e-004	8.6090
Supermarket	550189	2.9700e-003	0.0270	0.0227	1.6000e-004		2.0500e-003	2.0500e-003		2.0500e-003	2.0500e-003	0.0000	29.3602	29.3602	5.6000e-004	5.4000e-004	29.5347
Total		0.0187	0.1702	0.1429	1.0100e-003		0.0129	0.0129		0.0129	0.0129	0.0000	185.2437	185.2437	3.5500e-003	3.4100e-003	186.3445

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	23540	6.8481	3.1000e-004	6.0000e-005	6.8749
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	90171.9	26.2320	1.1900e-003	2.5000e-004	26.3348
General Office Building	162516	47.2777	2.1400e-003	4.4000e-004	47.4629
General Office Building	38710	11.2612	5.1000e-004	1.1000e-004	11.3053
High Turnover (Sit Down Restaurant)	243415	70.8122	3.2000e-003	6.6000e-004	71.0897
Hotel	335998	97.7458	4.4200e-003	9.1000e-004	98.1288
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	85995	25.0169	1.1300e-003	2.3000e-004	25.1150
Regional Shopping Center	429612	124.9789	5.6500e-003	1.1700e-003	125.4686
Supermarket	1.02407e+006	297.9151	0.0135	2.7900e-003	299.0825
Total		718.5641	0.0325	6.7200e-003	721.3796

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5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	22517	6.5505	3.0000e-004	6.0000e-005	6.5761
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	85767.9	24.9509	1.1300e-003	2.3000e-004	25.0486
General Office Building	146514	42.6226	1.9300e-003	4.0000e-004	42.7896
General Office Building	34898.5	10.1524	4.6000e-004	9.0000e-005	10.1922
High Turnover (Sit Down Restaurant)	231527	67.3537	3.0500e-003	6.3000e-004	67.6177
Hotel	308704	89.8056	4.0600e-003	8.4000e-004	90.1575
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	81795	23.7951	1.0800e-003	2.2000e-004	23.8883
Regional Shopping Center	381852	111.0852	5.0200e-003	1.0400e-003	111.5205
Supermarket	1.00286e+006	291.7424	0.0132	2.7300e-003	292.8855
Total		678.5344	0.0307	6.3400e-003	681.1931

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Unmitigated	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1849					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.1000e-004	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Total	0.7886	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1849					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.1000e-004	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Total	0.7886	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115

7.0 Water Detail

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7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.0057	7.8700e-003	4.7800e-003	13.6279
Unmitigated	14.9607	9.8400e-003	5.9800e-003	16.9882

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0.2628	0.2676	1.0000e-005	0.0000	0.2686
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	7.6212 / 0	14.6931	9.8200e-003	5.9800e-003	16.7195
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		14.9607	9.8300e-003	5.9800e-003	16.9882

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0.246769	0.2513	1.0000e-005	0.0000	0.2522
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.09696 / 0	11.7545	7.8600e-003	4.7800e-003	13.3756
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		12.0057	7.8700e-003	4.7800e-003	13.6279

8.0 Waste Detail

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8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	88.8816	5.2528	0.0000	220.2005
Unmitigated	88.8816	5.2528	0.0000	220.2005

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
City Park	0.25	0.0508	3.0000e-003	0.0000	0.1257
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	16.92	3.4346	0.2030	0.0000	8.5091
High Turnover (Sit Down Restaurant)	117.93	23.9387	1.4147	0.0000	59.3072
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	33.37	6.7738	0.4003	0.0000	16.7818
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		88.8816	5.2528	0.0000	220.2005

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
City Park	0.25	0.0508	3.0000e-003	0.0000	0.1257
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	16.92	3.4346	0.2030	0.0000	8.5091
High Turnover (Sit Down Restaurant)	117.93	23.9387	1.4147	0.0000	59.3072
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	33.37	6.7738	0.4003	0.0000	16.7818
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		88.8816	5.2528	0.0000	220.2005

9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	1	469.358	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Total	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	358.9560	0.0000	0.0000	358.9560

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	507	358.9560	0.0000	0.0000	358.9560
Total		358.9560	0.0000	0.0000	358.9560

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
General Office Building	14.69	1000sqft	0.34	14,694.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
City Park	2.90	Acre	2.90	126,324.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	9.91	1000sqft	0.23	9,907.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	31.78	1000sqft	0.73	31,776.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted hotel square footage based on 4-story building

Construction Phase - Operations phase

Off-road Equipment - Operations phase

Grading - Adjusted total acres graded

Water And Wastewater - 100% aerobic

Building water use is 87 EDUs

Irrigation water use is 3 EDUs

1 EDU = 240 gal/day

Land Use Change -

Sequestration -

Energy Mitigation - 30% improvement in Title 24 to meet 2019 Standards

Water Mitigation - Default % reductions used. Defaults are based on 2016 Title 24 Standards, therefore water use is conservative.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	14,690.00	14,694.00
tblLandUse	LandUseSquareFeet	9,910.00	9,907.00

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tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LandUseSquareFeet	31,780.00	31,776.00
tblLandUse	LotAcreage	3.33	0.25
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSequestration	NumberOfNewTrees	0.00	507.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	469.36
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblVehicleTrips	ST_TR	10.71	3.76
tblVehicleTrips	ST_TR	22.75	7.98
tblVehicleTrips	ST_TR	722.03	253.17
tblVehicleTrips	ST_TR	2.46	0.86

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tblVehicleTrips	ST_TR	158.37	55.53
tblVehicleTrips	ST_TR	8.19	2.87
tblVehicleTrips	ST_TR	94.36	33.09
tblVehicleTrips	ST_TR	49.97	17.52
tblVehicleTrips	ST_TR	177.59	62.27
tblVehicleTrips	SU_TR	10.71	4.65
tblVehicleTrips	SU_TR	16.74	7.26
tblVehicleTrips	SU_TR	542.72	235.42
tblVehicleTrips	SU_TR	1.05	0.46
tblVehicleTrips	SU_TR	131.84	57.19
tblVehicleTrips	SU_TR	5.95	2.58
tblVehicleTrips	SU_TR	72.16	31.30
tblVehicleTrips	SU_TR	25.24	10.95
tblVehicleTrips	SU_TR	166.44	72.20
tblVehicleTrips	WD_TR	10.71	5.25
tblVehicleTrips	WD_TR	1.89	0.93
tblVehicleTrips	WD_TR	496.12	243.35
tblVehicleTrips	WD_TR	11.03	5.41
tblVehicleTrips	WD_TR	127.15	62.37
tblVehicleTrips	WD_TR	8.17	4.01
tblVehicleTrips	WD_TR	89.95	44.12
tblVehicleTrips	WD_TR	42.70	20.95
tblVehicleTrips	WD_TR	102.24	50.15
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,369,235.65	0.00
tblWater	IndoorWaterUseRate	1,113,968.72	0.00
tblWater	IndoorWaterUseRate	3,232,976.88	0.00
tblWater	IndoorWaterUseRate	3,008,019.09	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	1,062,367.99	0.00
tblWater	IndoorWaterUseRate	2,354,024.73	7,621,200.00
tblWater	IndoorWaterUseRate	3,694,348.40	0.00
tblWater	OutdoorWaterUseRate	151,227.81	0.00
tblWater	OutdoorWaterUseRate	3,455,295.91	262,800.00
tblWater	OutdoorWaterUseRate	71,104.39	0.00
tblWater	OutdoorWaterUseRate	1,981,501.96	0.00
tblWater	OutdoorWaterUseRate	192,001.22	0.00

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tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	67,810.72	0.00
tblWater	OutdoorWaterUseRate	1,442,789.35	0.00
tblWater	OutdoorWaterUseRate	114,258.20	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3242	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410
Energy	0.1269	1.1534	0.9689	6.9200e-003		0.0877	0.0877		0.0877	0.0877		1,384.0860	1,384.0860	0.0265	0.0254	1,392.3110
Mobile	8.5413	16.7346	59.8239	0.1575	13.7564	0.1504	13.9068	3.6751	0.1404	3.8155		15,788.3014	15,788.3014	0.5228		15,801.3720
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	12.9924	17.8886	60.8545	0.1644	13.7564	0.2383	13.9947	3.6751	0.2283	3.9034		17,172.5197	17,172.5197	0.5497	0.0254	17,193.8239

Montano - Operations - El Dorado-Mountain County County, Summer

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3242	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410
Energy	0.1026	0.9324	0.7832	5.5900e-003		0.0709	0.0709		0.0709	0.0709		1,118.8834	1,118.8834	0.0215	0.0205	1,125.5324
Mobile	8.5413	16.7346	59.8239	0.1575	13.7564	0.1504	13.9068	3.6751	0.1404	3.8155		15,788.3014	15,788.3014	0.5228		15,801.3720
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	12.9681	17.6676	60.6688	0.1631	13.7564	0.2215	13.9779	3.6751	0.2115	3.8866		16,907.3171	16,907.3171	0.5446	0.0205	16,927.0453

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.19	1.24	0.31	0.81	0.00	7.05	0.12	0.00	7.36	0.43	0.00	1.54	1.54	0.92	19.16	1.55

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	12/31/2019	5	0	
2	Building Construction	Building Construction	2/12/2020	2/11/2020	5	0	
3	Paving	Paving	4/7/2021	4/6/2021	5	0	
4	Architectural Coating	Architectural Coating	5/5/2021	5/4/2021	5	0	

Montano - Operations - El Dorado-Mountain County County, Summer

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 221,336; Non-Residential Outdoor: 73,779; Striped Parking Area: 23,949 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Montano - Operations - El Dorado-Mountain County County, Summer

3.5 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Montano - Operations - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.5413	16.7346	59.8239	0.1575	13.7564	0.1504	13.9068	3.6751	0.1404	3.8155		15,788.30 14	15,788.30 14	0.5228		15,801.37 20
Unmitigated	8.5413	16.7346	59.8239	0.1575	13.7564	0.1504	13.9068	3.6751	0.1404	3.8155		15,788.30 14	15,788.30 14	0.5228		15,801.37 20

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	28.88	20.68	25.58	52,885	52,885
City Park	2.70	23.14	21.05	17,591	17,591
Fast Food Restaurant with Drive Thru	893.09	929.13	863.99	835,366	835,366
General Office Building	18.94	3.01	1.61	33,899	33,899
General Office Building	79.47	12.63	6.76	142,277	142,277
High Turnover (Sit Down Restaurant)	618.09	550.30	566.75	697,400	697,400
Hotel	401.00	287.00	258.00	692,118	692,118
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	154.42	115.82	109.55	169,023	169,023
Regional Shopping Center	665.79	556.79	347.99	1,060,432	1,060,432
Supermarket	1,503.00	1,866.23	2163.83	1,875,976	1,875,976
Total	4,365.37	4,364.73	4,365.12	5,576,967	5,576,967

4.3 Trip Type Information

Montano - Operations - El Dorado-Mountain County County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Montano - Operations - El Dorado-Mountain County County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
City Park	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Montano - Operations - El Dorado-Mountain County County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1026	0.9324	0.7832	5.5900e-003		0.0709	0.0709		0.0709	0.0709		1,118.8834	1,118.8834	0.0215	0.0205	1,125.5324
NaturalGas Unmitigated	0.1269	1.1534	0.9689	6.9200e-003		0.0877	0.0877		0.0877	0.0877		1,384.0860	1,384.0860	0.0265	0.0254	1,392.3110

Montano - Operations - El Dorado-Mountain County County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	52.8904	5.7000e-004	5.1900e-003	4.3600e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004		6.2224	6.2224	1.2000e-004	1.1000e-004	6.2594
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	1168.37	0.0126	0.1146	0.0962	6.9000e-004		8.7100e-003	8.7100e-003		8.7100e-003	8.7100e-003		137.4550	137.4550	2.6300e-003	2.5200e-003	138.2718
General Office Building	187.37	2.0200e-003	0.0184	0.0154	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.0435	22.0435	4.2000e-004	4.0000e-004	22.1745
General Office Building	786.632	8.4800e-003	0.0771	0.0648	4.6000e-004		5.8600e-003	5.8600e-003		5.8600e-003	5.8600e-003		92.5450	92.5450	1.7700e-003	1.7000e-003	93.0949
High Turnover (Sit Down Restaurant)	3153.95	0.0340	0.3092	0.2597	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.0535	371.0535	7.1100e-003	6.8000e-003	373.2585
Hotel	2561.73	0.0276	0.2512	0.2110	1.5100e-003		0.0191	0.0191		0.0191	0.0191		301.3797	301.3797	5.7800e-003	5.5300e-003	303.1706
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1114.25	0.0120	0.1092	0.0918	6.6000e-004		8.3000e-003	8.3000e-003		8.3000e-003	8.3000e-003		131.0878	131.0878	2.5100e-003	2.4000e-003	131.8668
Regional Shopping Center	627.685	6.7700e-003	0.0615	0.0517	3.7000e-004		4.6800e-003	4.6800e-003		4.6800e-003	4.6800e-003		73.8453	73.8453	1.4200e-003	1.3500e-003	74.2841
Supermarket	2111.86	0.0228	0.2070	0.1739	1.2400e-003		0.0157	0.0157		0.0157	0.0157		248.4540	248.4540	4.7600e-003	4.5500e-003	249.9304
Total		0.1269	1.1534	0.9689	6.9300e-003		0.0877	0.0877		0.0877	0.0877		1,384.0860	1,384.0860	0.0265	0.0254	1,392.3110

Montano - Operations - El Dorado-Mountain County County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Arena	0.0384247	4.1000e-004	3.7700e-003	3.1600e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004		4.5206	4.5206	9.0000e-005	8.0000e-005	4.5474
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	1.08496	0.0117	0.1064	0.0894	6.4000e-004		8.0800e-003	8.0800e-003		8.0800e-003	8.0800e-003		127.6427	127.6427	2.4500e-003	2.3400e-003	128.4012
General Office Building	0.131159	1.4100e-003	0.0129	0.0108	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		15.4305	15.4305	3.0000e-004	2.8000e-004	15.5222
General Office Building	0.550643	5.9400e-003	0.0540	0.0454	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003		64.7815	64.7815	1.2400e-003	1.1900e-003	65.1664
High Turnover (Sit Down Restaurant)	2.92881	0.0316	0.2871	0.2412	1.7200e-003		0.0218	0.0218		0.0218	0.0218		344.5656	344.5656	6.6000e-003	6.3200e-003	346.6132
Hotel	1.79506	0.0194	0.1760	0.1478	1.0600e-003		0.0134	0.0134		0.0134	0.0134		211.1835	211.1835	4.0500e-003	3.8700e-003	212.4385
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.03471	0.0112	0.1014	0.0852	6.1000e-004		7.7100e-003	7.7100e-003		7.7100e-003	7.7100e-003		121.7301	121.7301	2.3300e-003	2.2300e-003	122.4534
Regional Shopping Center	0.439379	4.7400e-003	0.0431	0.0362	2.6000e-004		3.2700e-003	3.2700e-003		3.2700e-003	3.2700e-003		51.6917	51.6917	9.9000e-004	9.5000e-004	51.9989
Supermarket	1.50737	0.0163	0.1478	0.1241	8.9000e-004		0.0112	0.0112		0.0112	0.0112		177.3374	177.3374	3.4000e-003	3.2500e-003	178.3912
Total		0.1026	0.9324	0.7832	5.6000e-003		0.0709	0.0709		0.0709	0.0709		1,118.8834	1,118.8834	0.0215	0.0205	1,125.5324

Montano - Operations - El Dorado-Mountain County County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3242	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410
Unmitigated	4.3242	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410

Montano - Operations - El Dorado-Mountain County County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0129					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3056					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7200e-003	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410
Total	4.3243	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0129					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3056					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7200e-003	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410
Total	4.3243	5.6000e-004	0.0617	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1323	0.1323	3.5000e-004		0.1410

7.0 Water Detail

Montano - Operations - El Dorado-Mountain County County, Summer

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	1	469.358	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
----------------	--------

Montano - Operations - El Dorado-Mountain County County, Summer

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

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El Dorado-Mountain County County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
General Office Building	14.69	1000sqft	0.34	14,694.00	0
Other Asphalt Surfaces	206.97	1000sqft	4.75	206,970.00	0
Other Non-Asphalt Surfaces	89.29	1000sqft	2.05	89,290.00	0
Parking Lot	102.89	1000sqft	2.36	102,890.00	0
Arena	5.50	1000sqft	1.77	5,500.00	0
City Park	2.90	Acre	2.90	126,324.00	0
Fast Food Restaurant with Drive Thru	3.67	1000sqft	0.08	3,670.00	0
High Turnover (Sit Down Restaurant)	9.91	1000sqft	0.23	9,907.00	0
Hotel	100.00	Room	0.25	45,040.00	0
Quality Restaurant	3.50	1000sqft	0.08	3,500.00	0
Regional Shopping Center	31.78	1000sqft	0.73	31,776.00	0
Supermarket	29.97	1000sqft	0.69	29,970.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	70
Climate Zone	1			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted hotel square footage based on 4-story building

Construction Phase - Operations phase

Off-road Equipment - Operations phase

Grading - Adjusted total acres graded

Water And Wastewater - 100% aerobic

Building water use is 87 EDUs

Irrigation water use is 3 EDUs

1 EDU = 240 gal/day

Land Use Change -

Sequestration -

Mobile Land Use Mitigation -

Energy Mitigation - 30% improvement in 2016 Title 24 to meet 2019 Standards + Mitigation Measure: 10% improvement in energy use beyond 2019 standards = 43% improvement

Water Mitigation - Default % reductions used. Defaults are based on 2016 Title 24 Standards, therefore water use is conservative.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	14,690.00	14,694.00
tblLandUse	LandUseSquareFeet	9,910.00	9,907.00
tblLandUse	LandUseSquareFeet	145,200.00	45,040.00
tblLandUse	LandUseSquareFeet	31,780.00	31,776.00

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tblLandUse	LotAcreage	3.33	0.25
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblSequestration	NumberOfNewTrees	0.00	507.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	469.36
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	20.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblVehicleTrips	ST_TR	10.71	3.76
tblVehicleTrips	ST_TR	22.75	7.98
tblVehicleTrips	ST_TR	722.03	253.17
tblVehicleTrips	ST_TR	2.46	0.86
tblVehicleTrips	ST_TR	158.37	55.53
tblVehicleTrips	ST_TR	8.19	2.87

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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	2,369,235.65	0.00
tblWater	IndoorWaterUseRate	1,113,968.72	0.00
tblWater	IndoorWaterUseRate	3,232,976.88	0.00
tblWater	IndoorWaterUseRate	3,008,019.09	0.00
tblWater	IndoorWaterUseRate	2,536,677.00	0.00
tblWater	IndoorWaterUseRate	1,062,367.99	0.00
tblWater	IndoorWaterUseRate	2,354,024.73	7,621,200.00
tblWater	IndoorWaterUseRate	3,694,348.40	0.00
tblWater	OutdoorWaterUseRate	151,227.81	0.00
tblWater	OutdoorWaterUseRate	3,455,295.91	262,800.00
tblWater	OutdoorWaterUseRate	71,104.39	0.00
tblWater	OutdoorWaterUseRate	1,981,501.96	0.00
tblWater	OutdoorWaterUseRate	192,001.22	0.00
tblWater	OutdoorWaterUseRate	281,853.00	0.00
tblWater	OutdoorWaterUseRate	67,810.72	0.00

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tblWater	OutdoorWaterUseRate	1,442,789.35	0.00
tblWater	OutdoorWaterUseRate	114,258.20	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.2980	0.2980
2	4-1-2020	6-30-2020	0.5313	0.5313
3	7-1-2020	9-30-2020	0.5371	0.5371
4	10-1-2020	12-31-2020	0.5546	0.5546
5	1-1-2021	3-31-2021	0.4934	0.4934
6	4-1-2021	6-30-2021	1.8951	1.8951
		Highest	1.8951	1.8951

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Energy	0.0232	0.2105	0.1768	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	947.7150	947.7150	0.0369	0.0109	951.8923
Mobile	1.0663	2.7472	9.4049	0.0231	2.0599	0.0235	2.0834	0.5522	0.0220	0.5742	0.0000	2,097.9905	2,097.9905	0.0747	0.0000	2,099.8575
Stationary	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Waste						0.0000	0.0000		0.0000	0.0000	88.8816	0.0000	88.8816	5.2528	0.0000	220.2005
Water						0.0000	0.0000		0.0000	0.0000	2.6964	12.2643	14.9607	9.8400e-003	5.9800e-003	16.9882
Total	1.8785	2.9588	9.5882	0.0243	2.0599	0.0396	2.0995	0.5522	0.0380	0.5903	91.5780	3,058.1592	3,149.7372	5.3742	0.0169	3,289.1291

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Energy	0.0168	0.1527	0.1283	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.2172	166.2172	3.1900e-003	3.0500e-003	167.2050
Mobile	1.0239	2.4615	8.3377	0.0189	1.6576	0.0198	1.6774	0.4444	0.0185	0.4629	0.0000	1,719.0820	1,719.0820	0.0648	0.0000	1,720.7008
Stationary	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Waste						0.0000	0.0000		0.0000	0.0000	88.8816	0.0000	88.8816	5.2528	0.0000	220.2005
Water						0.0000	0.0000		0.0000	0.0000	2.1571	9.8486	12.0057	7.8700e-003	4.7800e-003	13.6279
Total	1.8297	2.6153	8.4725	0.0198	1.6576	0.0315	1.6891	0.4444	0.0302	0.4746	91.0387	1,895.3372	1,986.3759	5.3286	7.8300e-003	2,121.9248

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.60	11.61	11.64	18.50	19.53	20.43	19.55	19.53	20.66	19.60	0.59	38.02	36.94	0.85	53.67	35.49

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	358.9560
Total	358.9560

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	2/11/2020	5	30	
2	Building Construction	Building Construction	2/12/2020	4/6/2021	5	300	
3	Paving	Paving	4/7/2021	5/4/2021	5	20	
4	Architectural Coating	Architectural Coating	5/5/2021	6/1/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.16

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 221,336; Non-Residential Outdoor: 73,779; Striped Parking Area: 23,949 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	0	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	275.00	110.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	55.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	9.9000e-003	2.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1147	2.1147	7.0000e-005	0.0000	2.1164
Total	1.4900e-003	9.2000e-004	9.9000e-003	2.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1147	2.1147	7.0000e-005	0.0000	2.1164

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3.2 Grading - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4900e-003	9.2000e-004	9.9000e-003	2.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1147	2.1147	7.0000e-005	0.0000	2.1164
Total	1.4900e-003	9.2000e-004	9.9000e-003	2.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1147	2.1147	7.0000e-005	0.0000	2.1164

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3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0547	1.6198	0.5431	3.4300e-003	0.0829	9.2700e-003	0.0922	0.0240	8.8700e-003	0.0328	0.0000	324.8476	324.8476	6.6700e-003	0.0000	325.0144
Worker	0.1588	0.0984	1.0527	2.4900e-003	0.2511	1.9900e-003	0.2531	0.0668	1.8300e-003	0.0687	0.0000	224.8591	224.8591	7.1700e-003	0.0000	225.0384
Total	0.2135	1.7181	1.5958	5.9200e-003	0.3340	0.0113	0.3453	0.0908	0.0107	0.1015	0.0000	549.7067	549.7067	0.0138	0.0000	550.0528

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3.3 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0547	1.6198	0.5431	3.4300e-003	0.0829	9.2700e-003	0.0922	0.0240	8.8700e-003	0.0328	0.0000	324.8476	324.8476	6.6700e-003	0.0000	325.0144
Worker	0.1588	0.0984	1.0527	2.4900e-003	0.2511	1.9900e-003	0.2531	0.0668	1.8300e-003	0.0687	0.0000	224.8591	224.8591	7.1700e-003	0.0000	225.0384
Total	0.2135	1.7181	1.5958	5.9200e-003	0.3340	0.0113	0.3453	0.0908	0.0107	0.1015	0.0000	549.7067	549.7067	0.0138	0.0000	550.0528

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3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0131	0.4322	0.1421	1.0000e-003	0.0243	1.3000e-003	0.0256	7.0200e-003	1.2500e-003	8.2700e-003	0.0000	94.5584	94.5584	1.7000e-003	0.0000	94.6010
Worker	0.0438	0.0259	0.2809	7.1000e-004	0.0736	5.6000e-004	0.0742	0.0196	5.2000e-004	0.0201	0.0000	63.6705	63.6705	1.8800e-003	0.0000	63.7175
Total	0.0569	0.4581	0.4230	1.7100e-003	0.0979	1.8600e-003	0.0998	0.0266	1.7700e-003	0.0284	0.0000	158.2289	158.2289	3.5800e-003	0.0000	158.3185

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3.3 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0131	0.4322	0.1421	1.0000e-003	0.0243	1.3000e-003	0.0256	7.0200e-003	1.2500e-003	8.2700e-003	0.0000	94.5584	94.5584	1.7000e-003	0.0000	94.6010
Worker	0.0438	0.0259	0.2809	7.1000e-004	0.0736	5.6000e-004	0.0742	0.0196	5.2000e-004	0.0201	0.0000	63.6705	63.6705	1.8800e-003	0.0000	63.7175
Total	0.0569	0.4581	0.4230	1.7100e-003	0.0979	1.8600e-003	0.0998	0.0266	1.7700e-003	0.0284	0.0000	158.2289	158.2289	3.5800e-003	0.0000	158.3185

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3.4 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	9.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.3100e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222
Total	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222

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3.4 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Paving	9.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.3100e-003	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222
Total	7.0000e-004	4.2000e-004	4.5100e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0215	1.0215	3.0000e-005	0.0000	1.0222

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3.5 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8486	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.5200e-003	0.0165	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7453	3.7453	1.1000e-004	0.0000	3.7481
Total	2.5800e-003	1.5200e-003	0.0165	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7453	3.7453	1.1000e-004	0.0000	3.7481

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3.5 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.8486					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8486	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000							

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.5200e-003	0.0165	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7453	3.7453	1.1000e-004	0.0000	3.7481
Total	2.5800e-003	1.5200e-003	0.0165	4.0000e-005	4.3300e-003	3.0000e-005	4.3600e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.7453	3.7453	1.1000e-004	0.0000	3.7481

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0239	2.4615	8.3377	0.0189	1.6576	0.0198	1.6774	0.4444	0.0185	0.4629	0.0000	1,719.0820	1,719.0820	0.0648	0.0000	1,720.7008
Unmitigated	1.0663	2.7472	9.4049	0.0231	2.0599	0.0235	2.0834	0.5522	0.0220	0.5742	0.0000	2,097.9905	2,097.9905	0.0747	0.0000	2,099.8575

4.2 Trip Summary Information

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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	28.88	20.68	25.58	52,885	42,556
City Park	2.70	23.14	21.05	17,591	14,156
Fast Food Restaurant with Drive Thru	893.09	929.13	863.99	835,366	672,209
General Office Building	18.94	3.01	1.61	33,899	27,278
General Office Building	79.47	12.63	6.76	142,277	114,489
High Turnover (Sit Down Restaurant)	618.09	550.30	566.75	697,400	561,189
Hotel	401.00	287.00	258.00	692,118	556,939
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	154.42	115.82	109.55	169,023	136,011
Regional Shopping Center	665.79	556.79	347.99	1,060,432	853,316
Supermarket	1,503.00	1,866.23	2163.83	1,875,976	1,509,575
Total	4,365.37	4,364.73	4,365.12	5,576,967	4,487,717

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	9.50	7.30	7.30	0.00	81.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	9.50	7.30	7.30	2.20	78.80	19.00	29	21	50
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
City Park	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Fast Food Restaurant with Drive Thru	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
General Office Building	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
High Turnover (Sit Down Restaurant)	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Hotel	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Other Non-Asphalt Surfaces	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Parking Lot	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Quality Restaurant	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Regional Shopping Center	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342
Supermarket	0.536606	0.037513	0.225040	0.130667	0.027584	0.005847	0.017105	0.009587	0.001620	0.001093	0.005204	0.000792	0.001342

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	718.5641	718.5641	0.0325	6.7200e-003	721.3796	
NaturalGas Mitigated	0.0168	0.1527	0.1283	9.2000e-004			0.0116	0.0116		0.0116	0.0116	0.0000	166.2172	166.2172	3.1900e-003	3.0500e-003	167.2050
NaturalGas Unmitigated	0.0232	0.2105	0.1768	1.2600e-003			0.0160	0.0160		0.0160	0.0160	0.0000	229.1510	229.1510	4.3900e-003	4.2000e-003	230.5127

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	19305	1.0000e-004	9.5000e-004	7.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0302	1.0302	2.0000e-005	2.0000e-005	1.0363
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	426454	2.3000e-003	0.0209	0.0176	1.3000e-004		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	22.7572	22.7572	4.4000e-004	4.2000e-004	22.8924
General Office Building	287121	1.5500e-003	0.0141	0.0118	8.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3219	15.3219	2.9000e-004	2.8000e-004	15.4129
General Office Building	68390	3.7000e-004	3.3500e-003	2.8200e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6496	3.6496	7.0000e-005	7.0000e-005	3.6712
High Turnover (Sit Down Restaurant)	1.15119e+006	6.2100e-003	0.0564	0.0474	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4321	61.4321	1.1800e-003	1.1300e-003	61.7971
Hotel	935030	5.0400e-003	0.0458	0.0385	2.8000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	49.8968	49.8968	9.6000e-004	9.1000e-004	50.1933
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	406700	2.1900e-003	0.0199	0.0168	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7031	21.7031	4.2000e-004	4.0000e-004	21.8320
Regional Shopping Center	229105	1.2400e-003	0.0112	9.4300e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	12.2259	12.2259	2.3000e-004	2.2000e-004	12.2986
Supermarket	770828	4.1600e-003	0.0378	0.0317	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1343	41.1343	7.9000e-004	7.5000e-004	41.3788
Total		0.0232	0.2105	0.1768	1.2800e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.1510	229.1510	4.4000e-003	4.2000e-003	230.5127

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Arena	11737	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6263	0.6263	1.0000e-005	1.0000e-005	0.6301
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	382820	2.0600e-003	0.0188	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.4287	20.4287	3.9000e-004	3.7000e-004	20.5501
General Office Building	163659	8.8000e-004	8.0200e-003	6.7400e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.7335	8.7335	1.7000e-004	1.6000e-004	8.7854
General Office Building	38982.3	2.1000e-004	1.9100e-003	1.6100e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.0802	2.0802	4.0000e-005	4.0000e-005	2.0926
High Turnover (Sit Down Restaurant)	1.0334e+006	5.5700e-003	0.0507	0.0426	3.0000e-004		3.8500e-003	3.8500e-003		3.8500e-003	3.8500e-003	0.0000	55.1464	55.1464	1.0600e-003	1.0100e-003	55.4741
Hotel	533936	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4928	28.4928	5.5000e-004	5.2000e-004	28.6622
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	365087	1.9700e-003	0.0179	0.0150	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.4824	19.4824	3.7000e-004	3.6000e-004	19.5982
Regional Shopping Center	130590	7.0000e-004	6.4000e-003	5.3800e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9688	6.9688	1.3000e-004	1.3000e-004	7.0102
Supermarket	454579	2.4500e-003	0.0223	0.0187	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	24.2581	24.2581	4.6000e-004	4.4000e-004	24.4022
Total		0.0168	0.1527	0.1283	9.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.2172	166.2172	3.1800e-003	3.0400e-003	167.2050

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	23540	6.8481	3.1000e-004	6.0000e-005	6.8749
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	90171.9	26.2320	1.1900e-003	2.5000e-004	26.3348
General Office Building	162516	47.2777	2.1400e-003	4.4000e-004	47.4629
General Office Building	38710	11.2612	5.1000e-004	1.1000e-004	11.3053
High Turnover (Sit Down Restaurant)	243415	70.8122	3.2000e-003	6.6000e-004	71.0897
Hotel	335998	97.7458	4.4200e-003	9.1000e-004	98.1288
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	36011.5	10.4762	4.7000e-004	1.0000e-004	10.5172
Quality Restaurant	85995	25.0169	1.1300e-003	2.3000e-004	25.1150
Regional Shopping Center	429612	124.9789	5.6500e-003	1.1700e-003	125.4686
Supermarket	1.02407e+006	297.9151	0.0135	2.7900e-003	299.0825
Total		718.5641	0.0325	6.7200e-003	721.3796

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5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Arena	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0	0.0000	0.0000	0.0000	0.0000
Hotel	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Supermarket	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Unmitigated	0.7887	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1849					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.1000e-004	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Total	0.7886	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1849					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.1000e-004	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115
Total	0.7886	5.0000e-005	5.5500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0108	0.0108	3.0000e-005	0.0000	0.0115

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.0057	7.8700e-003	4.7800e-003	13.6279
Unmitigated	14.9607	9.8400e-003	5.9800e-003	16.9882

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0.2628	0.2676	1.0000e-005	0.0000	0.2686
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	7.6212 / 0	14.6931	9.8200e-003	5.9800e-003	16.7195
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		14.9607	9.8300e-003	5.9800e-003	16.9882

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0.246769	0.2513	1.0000e-005	0.0000	0.2522
Fast Food Restaurant with Drive Thru	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	6.09696 / 0	11.7545	7.8600e-003	4.7800e-003	13.3756
Supermarket	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		12.0057	7.8700e-003	4.7800e-003	13.6279

8.0 Waste Detail

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8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	88.8816	5.2528	0.0000	220.2005
Unmitigated	88.8816	5.2528	0.0000	220.2005

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
City Park	0.25	0.0508	3.0000e-003	0.0000	0.1257
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	16.92	3.4346	0.2030	0.0000	8.5091
High Turnover (Sit Down Restaurant)	117.93	23.9387	1.4147	0.0000	59.3072
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	33.37	6.7738	0.4003	0.0000	16.7818
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		88.8816	5.2528	0.0000	220.2005

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
City Park	0.25	0.0508	3.0000e-003	0.0000	0.1257
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	16.92	3.4346	0.2030	0.0000	8.5091
High Turnover (Sit Down Restaurant)	117.93	23.9387	1.4147	0.0000	59.3072
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	33.37	6.7738	0.4003	0.0000	16.7818
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		88.8816	5.2528	0.0000	220.2005

9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	1	469.358	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Total	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	358.9560	0.0000	0.0000	358.9560

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	507	358.9560	0.0000	0.0000	358.9560
Total		358.9560	0.0000	0.0000	358.9560

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.15	0.0305	1.8000e-003	0.0000	0.0754
City Park	0.25	0.0508	3.0000e-003	0.0000	0.1257
Fast Food Restaurant with Drive Thru	42.27	8.5804	0.5071	0.0000	21.2577
General Office Building	16.92	3.4346	0.2030	0.0000	8.5091
High Turnover (Sit Down Restaurant)	117.93	23.9387	1.4147	0.0000	59.3072
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.19	0.6475	0.0383	0.0000	1.6043
Regional Shopping Center	33.37	6.7738	0.4003	0.0000	16.7818
Supermarket	169.03	34.3116	2.0278	0.0000	85.0054
Total		88.8816	5.2528	0.0000	220.2005

9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	1	469.358	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792
Total	3.8000e-004	1.0800e-003	9.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.1786	0.1786	3.0000e-005	0.0000	0.1792

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	358.9560	0.0000	0.0000	358.9560

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	507	358.9560	0.0000	0.0000	358.9560
Total		358.9560	0.0000	0.0000	358.9560

RCEM Outputs

Road Construction Emissions Model Data Entry Worksheet		Version 9.0.0		
<p>Note: Required data input sections have a yellow background. Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background. The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types. Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.</p>		<p>To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.</p>		
				
Input Type				
Project Name	Montano Phase II			
Construction Start Year	2020	Enter a Year between 2014 and 2040 (inclusive)		
Project Type	4	1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction		
Project Construction Time	3.00	months		
Working Days per Month	27.00	days (assume 22 if unknown)		
Predominant Soil/Site Type: Enter 1, 2, or 3 <small>(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells I18 to J22)</small>	2	1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murietta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murietta)		
Project Length	0.50	miles		
Total Project Area	0.30	acres		
Maximum Area Disturbed/Day	0.30	acres		
Water Trucks Used?	2	1. Yes 2. No		
Material Hauling Quantity Input				
Material Type	Phase	Haul Truck Capacity (yd ³) (assume 20 if unknown)	Import Volume (yd ³ /day)	Export Volume (yd ³ /day)
Soil	Grubbing/Land Clearing	20.00		
	Grading/Excavation	20.00		46.68
	Drainage/Utilities/Sub-Grade	20.00		35.19
	Paving	20.00		
	Grubbing/Land Clearing	20.00		
Asphalt	Grading/Excavation	20.00		
	Drainage/Utilities/Sub-Grade	20.00		
	Paving	20.00	140.03	
	Paving	20.00		
Mitigation Options				
On-road Fleet Emissions Mitigation	No Mitigation	Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard		
Off-road Equipment Emissions Mitigation	No Mitigation			
<p>The remaining sections of this sheet contain areas that require modification when "Other Project Type" is selected.</p>				

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/geologicmaps.aspx#regionalseries

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Program Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing		0.30		1/1/2020
Grading/Excavation		1.35		1/11/2020
Drainage/Utilities/Sub-Grade		0.90		2/22/2020
Paving		0.45		3/21/2020
Totals (Months)		3		

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		40.00			0	0.00					
Miles/round trip: Grading/Excavation		40.00			3	120.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		40.00			2	80.00					
Miles/round trip: Paving		40.00			0	0.00					
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grading/Excavation (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Drainage/Utilities/Sub-Grade (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Paving (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grubbing/Land Clearing (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.14	0.34	2.02	0.06	0.05	0.00	500.55	0.01	0.08	524.16
Tons per const. Period - Grading/Excavation		0.00	0.01	0.04	0.00	0.00	0.00	9.12	0.00	0.00	9.55
Pounds per day - Drainage/Utilities/Sub-Grade		0.09	0.23	1.35	0.04	0.03	0.00	333.70	0.00	0.05	349.44
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.02	0.00	0.00	0.00	4.05	0.00	0.00	4.25
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project		0.00	0.01	0.05	0.00	0.00	0.00	13.18	0.00	0.00	13.80

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

Asphalt Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		40.00			0	0.00					
Miles/round trip: Grading/Excavation		40.00			0	0.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		40.00			0	0.00					
Miles/round trip: Paving		40.00			8	320.00					
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grading/Excavation (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Drainage/Utilities/Sub-Grade (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Paving (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grubbing/Land Clearing (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving		0.37	0.92	5.39	0.17	0.12	0.01	1,334.80	0.02	0.21	1,397.76
Tons per const. Period - Paving		0.00	0.01	0.03	0.00	0.00	0.00	8.11	0.00	0.00	8.49
Total tons per construction project		0.00	0.01	0.03	0.00	0.00	0.00	8.11	0.00	0.00	8.49

Note: Worker commute default values can be overridden in cells D121 through D126.

Worker Commute Emissions		User Override of Worker Commute Default Values	Default Values		Calculated Daily Trips	Calculated Daily VMT
Miles/ one-way trip	11					
One-way trips/day	2					
No. of employees: Grubbing/Land Clearing	0			0	0.00	
No. of employees: Grading/Excavation	5			10	110.00	
No. of employees: Drainage/Utilities/Sub-Grade	5			10	110.00	
No. of employees: Paving	5			10	110.00	

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Grading/Excavation (grams/mile)	0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Draining/Utilities/Sub-Grade (grams/mile)	0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Paving (grams/mile)	0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Grubbing/Land Clearing (grams/trip)	1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Grading/Excavation (grams/trip)	1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Draining/Utilities/Sub-Grade (grams/trip)	1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Paving (grams/trip)	1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Emissions	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.03	0.36	0.04	0.01	0.00	0.00	86.75	0.00	0.00	87.72
Tons per const. Period - Grading/Excavation	0.00	0.01	0.00	0.00	0.00	0.00	1.58	0.00	0.00	1.60
Pounds per day - Drainage/Utilities/Sub-Grade	0.03	0.36	0.04	0.01	0.00	0.00	86.75	0.00	0.00	87.72
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.07
Pounds per day - Paving	0.03	0.36	0.04	0.01	0.00	0.00	86.75	0.00	0.00	87.72
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.53
Total tons per construction project	0.00	0.01	0.00	0.00	0.00	0.00	3.16	0.00	0.00	3.20

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

Water Truck Emissions		User Override of Default # Water Trucks	Program Estimate of Number of Water Trucks	User Override of Truck Round Trips/Vehicle/Day	Default Values Round Trips/Vehicle/Day	Calculated Trips/day	User Override of Miles/Round Trip	Default Values Miles/Round Trip	Calculated Daily VMT
Grubbing/Land Clearing - Exhaust	0			0.00			0.00		0.00
Grading/Excavation - Exhaust	0			0.00			0.00		0.00
Drainage/Utilities/Subgrade	0			0.00			0.00		0.00
Paving	0			0.00			0.00		0.00

Emission Rates	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)	0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grading/Excavation (grams/mile)	0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Draining/Utilities/Sub-Grade (grams/mile)	0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Paving (grams/mile)	0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grubbing/Land Clearing (grams/trip)	0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)	0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Draining/Utilities/Sub-Grade (grams/trip)	0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)	0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: Fugitive dust default values can be overridden in cells D183 through D185.

Fugitive Dust	User Override of Max Acreage Disturbed/Day	Default Maximum Acreage/Day	PM10 pounds/day	PM10 tons/per period	PM2.5 pounds/day	PM2.5 tons/per period
Fugitive Dust - Grubbing/Land Clearing	0.30		6.00	0.02	1.25	0.01
Fugitive Dust - Grading/Excavation	0.30		6.00	0.11	1.25	0.02
Fugitive Dust - Drainage/Utilities/Subgrade	0.30		6.00	0.07	1.25	0.02

Values in cells D195 through D228, D246 through D279, D297 through D330, and D348 through D381 are required when 'Other Project Type' is selected.

Off-Road Equipment Emissions														
Grubbing/Land Clearing	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	Number of Vehicles	Override of	Default											
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier										
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Backfill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Signal Boards	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment														
If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab														
Number of Vehicles	Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e		
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	pounds per day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grubbing/Land Clearing	tons per phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grading/Excavation	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	Number of Vehicles	Override of	Default											
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier										
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Concrete/Industrial Saws	0.42	3.69	3.30	0.20	0.20	0.01	592.67	0.04	0.00	594.63
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Excavators	0.25	3.27	2.41	0.12	0.11	0.01	500.12	0.16	0.00	505.51
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Signal Boards	0.11	0.60	0.72	0.03	0.03	0.00	98.63	0.01	0.00	99.13
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment					If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab									
	Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Grading/Excavation		pounds per day	0.78	7.56	6.43	0.34	0.33	0.01	1,191.41	0.21	0.01	1,199.57
		Grading/Excavation		tons per phase	0.01	0.14	0.12	0.01	0.01	0.00	21.71	0.00	0.00	21.86

Default		Mitigation Option													
Drainage/Utilities/Subgrade	Number of Vehicles	Override of	Default	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e		
Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)		pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day		
		Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2.00		Model Default Tier	Signal Boards	0.11	0.60	0.72	0.03	0.03	0.00	98.63	0.01	0.00	99.13		
		Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1.00		Model Default Tier	Trenchers	0.42	2.64	3.80	0.28	0.26	0.00	326.81	0.11	0.00	330.33		
1.00		Model Default Tier	Welders	0.34	1.77	1.57	0.08	0.08	0.00	207.48	0.03	0.00	208.75		
User-Defined Off-road Equipment				If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab											
Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e		
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Drainage/Utilities/Sub-Grade		pounds per day	0.88	5.01	6.09	0.40	0.38	0.01	632.92	0.15	0.01	638.22		
	Drainage/Utilities/Sub-Grade		tons per phase	0.01	0.06	0.07	0.00	0.00	0.00	7.69	0.00	0.00	7.75		

Paving	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	Number of Vehicles	Override of	Default											
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier										
			Model Default Tier	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Cement and Mortar Mixers	0.06	0.31	0.37	0.01	0.01	0.00	50.52	0.01	0.00	50.77
			Model Default Tier	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Pavers	0.26	2.90	2.81	0.14	0.13	0.00	455.27	0.15	0.00	460.18
			Model Default Tier	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Plate Compactors	0.04	0.21	0.25	0.01	0.01	0.00	24.48	0.00	0.00	24.65
			Model Default Tier	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Rollers	0.21	1.89	2.08	0.13	0.12	0.00	254.07	0.08	0.00	256.80
			Model Default Tier	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Signal Boards	0.11	0.60	0.72	0.03	0.03	0.00	98.63	0.01	0.00	99.13
			Model Default Tier	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Surfacing Equipment	0.20	1.70	2.56	0.09	0.09	0.01	656.31	0.21	0.01	663.38
			Model Default Tier	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Model Default Tier	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment					If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab									
	Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Paving		pounds per day	0.89	7.61	8.79	0.41	0.39	0.02	1,549.27	0.46	0.01	1,564.92
		Paving		tons per phase	0.01	0.05	0.05	0.00	0.00	0.00	9.41	0.00	0.00	9.51
Total Emissions all Phases (tons per construction period) =>					0.03	0.24	0.24	0.01	0.01	0.00	38.82	0.01	0.00	39.12

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		221		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		231		8
Crawler Tractors		212		8
Crushing/Proc. Equipment		85		8
Excavators		158		8
Forklifts		89		8
Generator Sets		84		8
Graders		187		8
Off-Highway Tractors		124		8
Off-Highway Trucks		402		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		188		8
Pavers		130		8
Paving Equipment		132		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		80		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		247		8
Rubber Tired Loaders		203		8
Scrapers		367		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		263		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		97		8
Trenchers		78		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> Montano Phase II														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	6.00	0.00	6.00	1.25	0.00	1.25	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.95	8.26	8.49	6.42	0.42	6.00	1.63	0.38	1.25	0.02	1,778.71	0.22	0.09	1,811.45
Drainage/Utilities/Sub-Grade	1.00	5.60	7.47	6.45	0.45	6.00	1.66	0.41	1.25	0.01	1,053.37	0.15	0.06	1,075.38
Paving	1.29	8.89	14.21	0.59	0.59	0.00	0.51	0.51	0.00	0.03	2,970.82	0.48	0.23	3,050.40
Maximum (pounds/day)	1.29	8.89	14.21	6.45	0.59	6.00	1.66	0.51	1.25	0.03	2,970.82	0.48	0.23	3,050.40
Total (tons/construction project)	0.04	0.27	0.33	0.22	0.02	0.21	0.06	0.02	0.04	0.00	63.26	0.01	0.00	64.61

Notes:
 Project Start Year -> 2020
 Project Length (months) -> 3
 Total Project Area (acres) -> 0
 Maximum Area Disturbed/Day (acres) -> 0
 Water Truck Used? -> No

Phase	Total Material Imported/Exported Volume (yd ³ /day)		Daily VMT (miles/day)			
	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	0	0
Grading/Excavation	47	0	120	0	110	0
Drainage/Utilities/Sub-Grade	35	0	80	0	110	0
Paving	0	140	0	320	110	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Montano Phase II														
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.02	0.15	0.15	0.12	0.01	0.11	0.03	0.01	0.02	0.00	32.42	0.00	0.00	29.95
Drainage/Utilities/Sub-Grade	0.01	0.07	0.09	0.08	0.01	0.07	0.02	0.00	0.02	0.00	12.80	0.00	0.00	11.85
Paving	0.01	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.05	0.00	0.00	16.81
Maximum (tons/phase)	0.02	0.15	0.15	0.12	0.01	0.11	0.03	0.01	0.02	0.00	32.42	0.00	0.00	29.95
Total (tons/construction project)	0.04	0.27	0.33	0.22	0.02	0.21	0.06	0.02	0.04	0.00	63.26	0.01	0.00	58.61

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model

Version 9.0.0

Data Entry Worksheet

Note: Required data input sections have a yellow background. Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background. The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types. Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.



Input Type

Project Name	Montano Phase II
Construction Start Year	2020
Project Type	4
Project Construction Time	3.00
Working Days per Month	27.00
Predominant Soil/Site Type: Enter 1, 2, or 3 (for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells I18 to J22)	2
Project Length	0.50
Total Project Area	0.30
Maximum Area Disturbed/Day	0.30
Water Trucks Used?	2

Enter a Year between 2014 and 2040 (inclusive)

- 1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway
- 2) Road Widening : Project to add a new lane to an existing roadway
- 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane
- 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction

months
days (assume 22 if unknown)

- 1) Sand Gravel : Use for quaternary deposits (Delta/West County)
- 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murietta)
- 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murietta)

miles
acres
acres
1. Yes
2. No

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/goodmaps.aspx#regionalseries

Material Hauling Quantity Input

Material Type	Phase	Haul Truck Capacity (yd ³) (assume 20 if unknown)	Import Volume (yd ³ /day)	Export Volume (yd ³ /day)
Soil	Grubbing/Land Clearing	20.00		
	Grading/Excavation	20.00		46.68
	Drainage/Utilities/Sub-Grade	20.00		35.19
	Paving	20.00		
Asphalt	Grubbing/Land Clearing	20.00		
	Grading/Excavation	20.00		
	Drainage/Utilities/Sub-Grade	20.00		
	Paving	20.00	140.03	

Mitigation Options

On-road Fleet Emissions Mitigation	No Mitigation
Off-road Equipment Emissions Mitigation	Tier 4 Equipment
Will all off-road equipment be tier 4?	Tier 4 equipment for limited equipment types

Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer
 Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (<http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation>).
 Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard

* Tier 4 equipment for limited equipment types is selected, please provide tier information for each equipment type in cells from E183 to E379 below.
 The remaining sections of this sheet contain areas that require modification when "Other Project Type" is selected.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

Construction Periods	User Override of Construction Months	Program Calculated Months	User Override of Phase Starting Date	Program Default Phase Starting Date
Grubbing/Land Clearing		0.30		1/1/2020
Grading/Excavation		1.35		1/11/2020
Drainage/Utilities/Sub-Grade		0.90		2/22/2020
Paving		0.45		3/21/2020
Totals (Months)		3		

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

Soil Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		40.00			0	0.00					
Miles/round trip: Grading/Excavation		40.00			3	120.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		40.00			2	80.00					
Miles/round trip: Paving		40.00			0	0.00					
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grading/Excavation (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Drainage/Utilities/Sub-Grade (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Paving (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grubbing/Land Clearing (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.14	0.34	2.02	0.06	0.05	0.00	500.55	0.01	0.08	524.16
Tons per const. Period - Grading/Excavation		0.00	0.01	0.04	0.00	0.00	0.00	9.12	0.00	0.00	9.55
Pounds per day - Drainage/Utilities/Sub-Grade		0.09	0.23	1.35	0.04	0.03	0.00	333.70	0.00	0.05	349.44
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.02	0.00	0.00	0.00	4.05	0.00	0.00	4.25
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons per construction project		0.00	0.01	0.05	0.00	0.00	0.00	13.18	0.00	0.00	13.80

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

Asphalt Hauling Emissions		User Override of Miles/Round Trip	Program Estimate of Miles/Round Trip	User Override of Truck Round Trips/Day	Default Values Round Trips/Day	Calculated Daily VMT					
User Input											
Miles/round trip: Grubbing/Land Clearing		40.00			0	0.00					
Miles/round trip: Grading/Excavation		40.00			0	0.00					
Miles/round trip: Drainage/Utilities/Sub-Grade		40.00			0	0.00					
Miles/round trip: Paving		40.00			8	320.00					
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grading/Excavation (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Drainage/Utilities/Sub-Grade (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Paving (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28
Grubbing/Land Clearing (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading/Excavation (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Paving		0.37	0.92	5.39	0.17	0.12	0.01	1,334.80	0.02	0.21	1,397.76
Tons per const. Period - Paving		0.00	0.01	0.03	0.00	0.00	0.00	8.11	0.00	0.00	8.49
Total tons per construction project		0.00	0.01	0.03	0.00	0.00	0.00	8.11	0.00	0.00	8.49

Note: Worker commute default values can be overridden in cells D121 through D126.

Worker Commute Emissions		User Override of Worker Commute Default Values		Default Values		Calculated					
User Input		Default Values		Calculated		Calculated					
Miles/ one-way trip		11			Daily Trips		Daily VMT				
One-way trips/day		2			0		0.00				
No. of employees: Grubbing/Land Clearing		0			10		110.00				
No. of employees: Grading/Excavation		5			10		110.00				
No. of employees: Drainage/Utilities/Sub-Grade		5			10		110.00				
No. of employees: Paving		5			10		110.00				
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Grubbing/Land Clearing (grams/mile)		0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Grading/Excavation (grams/mile)		0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Draining/Utilities/Sub-Grade (grams/mile)		0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Paving (grams/mile)		0.02	1.22	0.11	0.05	0.02	0.00	350.90	0.01	0.01	353.67
Grubbing/Land Clearing (grams/trip)		1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Grading/Excavation (grams/trip)		1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Draining/Utilities/Sub-Grade (grams/trip)		1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Paving (grams/trip)		1.25	3.05	0.37	0.00	0.00	0.00	75.08	0.09	0.04	88.34
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pounds per day - Grading/Excavation		0.03	0.36	0.04	0.01	0.00	0.00	86.75	0.00	0.00	87.72
Tons per const. Period - Grading/Excavation		0.00	0.01	0.00	0.00	0.00	0.00	1.58	0.00	0.00	1.60
Pounds per day - Drainage/Utilities/Sub-Grade		0.03	0.36	0.04	0.01	0.00	0.00	86.75	0.00	0.00	87.72
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	1.07
Pounds per day - Paving		0.03	0.36	0.04	0.01	0.00	0.00	86.75	0.00	0.00	87.72
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.53
Total tons per construction project		0.00	0.01	0.00	0.00	0.00	0.00	3.16	0.00	0.00	3.20

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

Water Truck Emissions		User Override of Program Estimate of		User Override of Truck		Default Values		Calculated		User Override of		Default Values		Calculated	
User Input		Default # Water Trucks	Number of Water Trucks	Round Trips/Vehicle/Day	Round Trips/Vehicle/Day	Trips/day	Miles/Round Trip	Miles/Round Trip	Daily VMT	Miles/Round Trip	Daily VMT				
Grubbing/Land Clearing - Exhaust		0		0.00			0.00		0.00		0.00				
Grading/Excavation - Exhaust		0		0.00			0.00		0.00		0.00				
Drainage/Utilities/Subgrade		0		0.00			0.00		0.00		0.00				
Paving		0		0.00			0.00		0.00		0.00				
Emission Rates		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e				
Grubbing/Land Clearing (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28				
Grading/Excavation (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28				
Draining/Utilities/Sub-Grade (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28				
Paving (grams/mile)		0.53	1.30	7.55	0.24	0.17	0.02	1,892.05	0.02	0.30	1,981.28				
Grubbing/Land Clearing (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Grading/Excavation (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Draining/Utilities/Sub-Grade (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Paving (grams/trip)		0.00	0.00	3.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Emissions		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e				
Pounds per day - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Tons per const. Period - Grubbing/Land Clearing		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Pounds per day - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Tons per const. Period - Grading/Excavation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Pounds per day - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Tons per const. Period - Drainage/Utilities/Sub-Grade		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Pounds per day - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Tons per const. Period - Paving		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Total tons per construction project		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

Note: Fugitive dust default values can be overridden in cells D183 through D185.

Fugitive Dust		User Override of Max	Default	PM10	PM10	PM2.5	PM2.5
		Acreage Disturbed/Day	Maximum Acreage/Day	pounds/day	tons/per period	pounds/day	tons/per period
Fugitive Dust - Grubbing/Land Clearing		0.30		6.00	0.02	1.25	0.01
Fugitive Dust - Grading/Excavation		0.30		6.00	0.11	1.25	0.02
Fugitive Dust - Drainage/Utilities/Subgrade		0.30		6.00	0.07	1.25	0.02

Grading/Excavation	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	Number of Vehicles	Override of	Current											
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier										
			Tier 4	Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Tier 4	Concrete/Industrial Saws	0.16	3.86	0.31	0.02	0.01	0.01	592.67	0.04	0.00
			Tier 4	Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Tier 4	Excavators	0.16	3.92	0.32	0.02	0.01	0.01	500.12	0.16	0.00
			Tier 4	Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Model Default Tier	Signal Boards	0.11	0.60	0.72	0.03	0.03	0.00	98.63	0.01	0.00
			Tier 4	Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment														
<i>If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab</i>														
	Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Grading/Excavation		pounds per day	0.43	8.38	1.35	0.06	0.06	0.01	1,191.41	0.21	0.01	1,199.57
		Grading/Excavation		tons per phase	0.01	0.15	0.02	0.00	0.00	0.00	21.71	0.00	0.00	21.86

Default		Mitigation Option												
Drainage/Utilities/Subgrade	Number of Vehicles	Override of	Current	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e	
Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	
		Tier 4	Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Cement and Mortar Mixers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Pavers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Plate Compactors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Rollers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2.00		Model Default Tier	Model Default Tier	Signal Boards	0.11	0.60	0.72	0.03	0.03	0.00	98.63	0.01	99.13	
		Tier 4	Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Surfacing Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Tier 4	Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.00		Tier 4	Tier 4	Trenchers	0.10	2.55	0.21	0.01	0.01	0.00	326.81	0.11	330.33	
1.00		Model Default Tier	Model Default Tier	Welders	0.34	1.77	1.57	0.09	0.09	0.00	207.48	0.03	208.76	
User-Defined Off-road Equipment				If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab										
Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e	
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Drainage/Utilities/Sub-Grade		pounds per day	0.56	4.91	2.50	0.13	0.12	0.01	632.92	0.15	0.01	638.22	
	Drainage/Utilities/Sub-Grade		tons per phase	0.01	0.06	0.03	0.00	0.00	0.00	7.69	0.00	0.00	7.75	

Paving	Default		Mitigation Option		ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e	
	Number of Vehicles	Override of	Current												
	Override of Default Number of Vehicles	Program-estimate	Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected)	Equipment Tier											
			Tier 4	Tier 4	Aerial Lifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Air Compressors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Bore/Drill Rigs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Tier 4	Cement and Mortar Mixers	0.03	0.53	0.47	0.03	0.02	0.00	50.52	0.01	0.00	50.77
			Tier 4	Tier 4	Concrete/Industrial Saws	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Cranes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Crawler Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Crushing/Proc. Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Excavators	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Generator Sets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Graders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Off-Highway Tractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Off-Highway Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Other Construction Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Other General Industrial Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Other Material Handling Equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Tier 4	Pavers	0.14	3.56	0.29	0.01	0.01	0.00	455.27	0.15	0.00	460.18
			Tier 4	Tier 4	Paving Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Model Default Tier	Model Default Tier	Plate Compactors	0.04	0.21	0.25	0.01	0.01	0.00	24.48	0.00	0.00	24.65
			Tier 4	Tier 4	Pressure Washers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Pumps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Tier 4	Rollers	0.08	1.98	0.16	0.01	0.01	0.00	254.07	0.08	0.00	256.80
			Tier 4	Tier 4	Rough Terrain Forklifts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Rubber Tired Dozers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Rubber Tired Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Scrapers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.00			Model Default Tier	Model Default Tier	Signal Boards	0.11	0.60	0.72	0.03	0.03	0.00	98.63	0.01	0.00	99.13
			Tier 4	Tier 4	Skid Steer Loaders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.00			Tier 4	Tier 4	Surfacing Equipment	0.21	3.62	0.42	0.02	0.02	0.01	656.31	0.21	0.01	663.38
			Tier 4	Tier 4	Sweepers/Scrubbers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Tractors/Loaders/Backhoes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Trenchers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
			Tier 4	Tier 4	Welders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User-Defined Off-road Equipment					If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab										
	Number of Vehicles		Equipment Tier	Type	ROG	CO	NOx	PM10	PM2.5	SOx	CO2	CH4	N2O	CO2e	
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	0.00		N/A		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Paving		pounds per day	0.61	10.51	2.31	0.11	0.10	0.02	1,549.27	0.46	0.01	1,564.92	
		Paving		tons per phase	0.00	0.06	0.01	0.00	0.00	0.00	9.41	0.00	0.00	9.51	
Total Emissions all Phases (tons per construction period) =>					0.02	0.28	0.07	0.00	0.00	0.00	38.82	0.01	0.00	39.12	

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

Equipment	User Override of Horsepower	Default Values Horsepower	User Override of Hours/day	Default Values Hours/day
Aerial Lifts		63		8
Air Compressors		78		8
Bore/Drill Rigs		221		8
Cement and Mortar Mixers		9		8
Concrete/Industrial Saws		81		8
Cranes		231		8
Crawler Tractors		212		8
Crushing/Proc. Equipment		85		8
Excavators		158		8
Forklifts		89		8
Generator Sets		84		8
Graders		187		8
Off-Highway Tractors		124		8
Off-Highway Trucks		402		8
Other Construction Equipment		172		8
Other General Industrial Equipment		88		8
Other Material Handling Equipment		188		8
Pavers		130		8
Paving Equipment		132		8
Plate Compactors		8		8
Pressure Washers		13		8
Pumps		84		8
Rollers		80		8
Rough Terrain Forklifts		100		8
Rubber Tired Dozers		247		8
Rubber Tired Loaders		203		8
Scrapers		367		8
Signal Boards		6		8
Skid Steer Loaders		65		8
Surfacing Equipment		263		8
Sweepers/Scrubbers		64		8
Tractors/Loaders/Backhoes		97		8
Trenchers		78		8
Welders		46		8

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> Montano Phase II														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.00	0.00	0.00	6.00	0.00	6.00	1.25	0.00	1.25	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.60	9.09	3.41	6.13	0.13	6.00	1.35	0.11	1.25	0.02	1,778.71	0.22	0.09	1,811.45
Drainage/Utilities/Sub-Grade	0.69	5.51	3.88	6.18	0.18	6.00	1.41	0.16	1.25	0.01	1,053.37	0.15	0.06	1,075.38
Paving	1.02	11.79	7.73	0.29	0.29	0.00	0.23	0.23	0.00	0.03	2,970.82	0.48	0.23	3,050.40
Maximum (pounds/day)	1.02	11.79	7.73	6.18	0.29	6.00	1.41	0.23	1.25	0.03	2,970.82	0.48	0.23	3,050.40
Total (tons/construction project)	0.03	0.30	0.16	0.21	0.01	0.21	0.05	0.01	0.04	0.00	63.26	0.01	0.00	64.61
Notes: Project Start Year -> 2020														
Project Length (months) -> 3														
Total Project Area (acres) -> 0														
Maximum Area Disturbed/Day (acres) -> 0														
Water Truck Used? -> No														
		Total Material Imported/Exported Volume (yd ³ /day)			Daily VMT (miles/day)									
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck								
Grubbing/Land Clearing	0	0	0	0	0	0								
Grading/Excavation	47	0	120	0	110	0								
Drainage/Utilities/Sub-Grade	35	0	80	0	110	0								
Paving	0	140	0	320	110	0								
PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.														
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.														
CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.														

Total Emission Estimates by Phase for -> Montano Phase II														
Project Phases				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
(Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	PM10 (tons/phase)	PM10 (tons/phase)	PM10 (tons/phase)	PM2.5 (tons/phase)	PM2.5 (tons/phase)	PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.00	0.00	0.02	0.00	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Grading/Excavation	0.01	0.17	0.06	0.11	0.00	0.11	0.02	0.00	0.02	0.00	32.42	0.00	0.00	29.95
Drainage/Utilities/Sub-Grade	0.01	0.07	0.05	0.08	0.00	0.07	0.02	0.00	0.02	0.00	12.80	0.00	0.00	11.85
Paving	0.01	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.05	0.00	0.00	16.81
Maximum (tons/phase)	0.01	0.17	0.06	0.11	0.00	0.11	0.02	0.00	0.02	0.00	32.42	0.00	0.00	29.95
Total (tons/construction project)	0.03	0.30	0.16	0.21	0.01	0.21	0.05	0.01	0.04	0.00	63.26	0.01	0.00	58.61
PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.														
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.														
CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.														
The CO2e emissions are reported as metric tons per phase.														

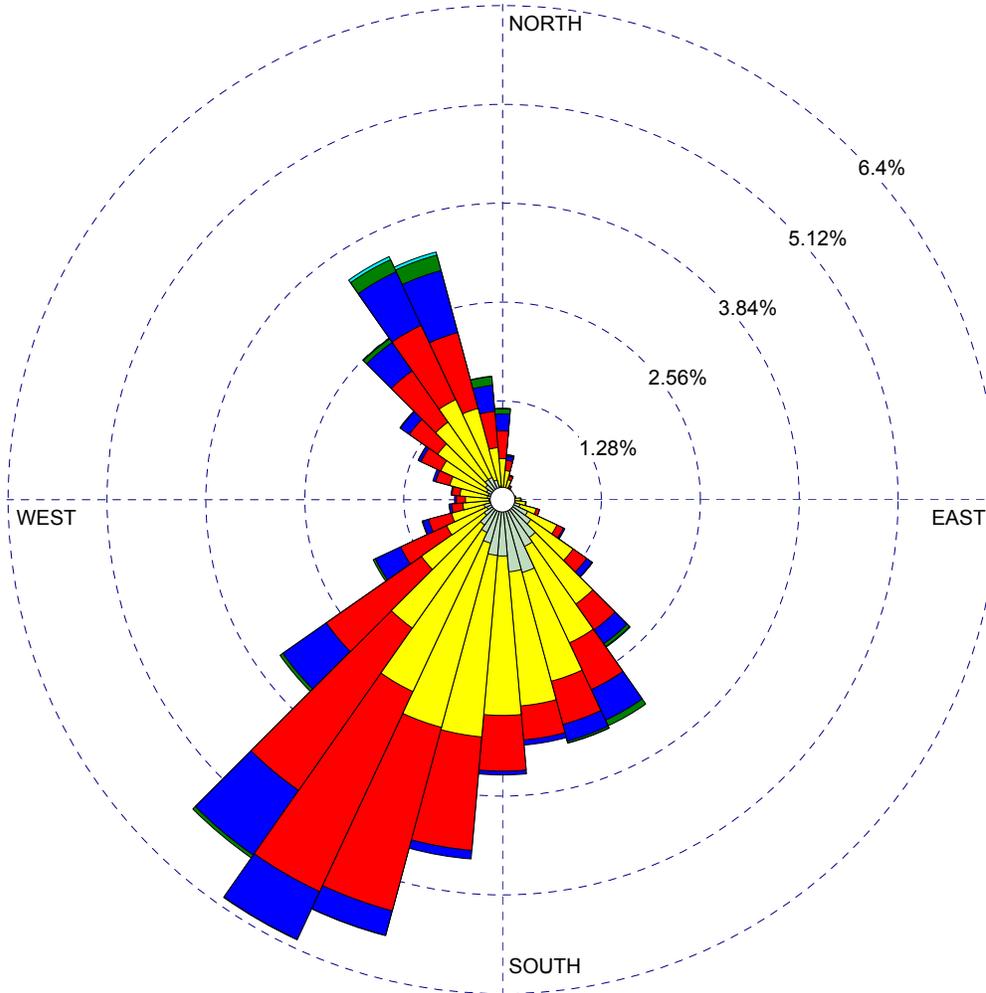
Wind Rose and HARP2 Health Risk Results

WIND ROSE PLOT:

Sacramento Executive Airport
1/1/2010 - 12/31/2014

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 27.81%

COMMENTS:

DATA PERIOD:

Start Date: 1/1/2010 - 00:00
End Date: 12/31/2014 - 23:59

COMPANY NAME:

Ascent Environmental

MODELER:

CALM WINDS:

27.81%

TOTAL COUNT:

41720 hrs.

AVG. WIND SPEED:

2.60 m/s

DATE:

6/19/2019

PROJECT NO.:

16010110.04



Construction Residential Cancer Risk Results - Unmitigated

245	ALL	667664.6	4280253	1.33E-07	3YrCancerDerived_Inh_FAH16to70	1.33E-07	0.00E+00											
246	ALL	667864.6	4280253	1.53E-07	3YrCancerDerived_Inh_FAH16to70	1.53E-07	0.00E+00											
247	ALL	667964.6	4280253	1.52E-07	3YrCancerDerived_Inh_FAH16to70	1.52E-07	0.00E+00											
248	ALL	668064.6	4280253	1.47E-07	3YrCancerDerived_Inh_FAH16to70	1.47E-07	0.00E+00											
249	ALL	668366.6	4278951	1.38E-05	3YrCancerDerived_Inh_FAH16to70	1.38E-05	0.00E+00											
250	ALL	668466.6	4278951	3.59E-06	3YrCancerDerived_Inh_FAH16to70	3.59E-06	0.00E+00											
251	ALL	668566.6	4278951	1.52E-06	3YrCancerDerived_Inh_FAH16to70	1.52E-06	0.00E+00											
252	ALL	668366.6	4279051	1.54E-05	3YrCancerDerived_Inh_FAH16to70	1.54E-05	0.00E+00											
253	ALL	668466.6	4279051	3.78E-06	3YrCancerDerived_Inh_FAH16to70	3.78E-06	0.00E+00											
254	ALL	668566.6	4279051	1.58E-06	3YrCancerDerived_Inh_FAH16to70	1.58E-06	0.00E+00											
255	ALL	668366.6	4279151	1.49E-05	3YrCancerDerived_Inh_FAH16to70	1.49E-05	0.00E+00											
256	ALL	668466.6	4279151	3.75E-06	3YrCancerDerived_Inh_FAH16to70	3.75E-06	0.00E+00											
257	ALL	668566.6	4279151	1.59E-06	3YrCancerDerived_Inh_FAH16to70	1.59E-06	0.00E+00											
258	ALL	668366.6	4279251	1.20E-05	3YrCancerDerived_Inh_FAH16to70	1.20E-05	0.00E+00											
259	ALL	668466.6	4279251	3.50E-06	3YrCancerDerived_Inh_FAH16to70	3.50E-06	0.00E+00											
260	ALL	668566.6	4279251	1.59E-06	3YrCancerDerived_Inh_FAH16to70	1.59E-06	0.00E+00											
261	ALL	668366.6	4279351	7.09E-06	3YrCancerDerived_Inh_FAH16to70	7.09E-06	0.00E+00											
262	ALL	668466.6	4279351	2.98E-06	3YrCancerDerived_Inh_FAH16to70	2.98E-06	0.00E+00											
263	ALL	668566.6	4279351	1.54E-06	3YrCancerDerived_Inh_FAH16to70	1.54E-06	0.00E+00											
264	ALL	668365.5	4279451	3.13E-06	3YrCancerDerived_Inh_FAH16to70	3.13E-06	0.00E+00											
265	ALL	668465.5	4279451	2.20E-06	3YrCancerDerived_Inh_FAH16to70	2.20E-06	0.00E+00											

Construction Residential Cancer Risk Results - Mitigated (All Tier 4 Engines for Equipment > 50hp)

245	ALL	667664.6	4280253	1.35E-08	3YrCancerDerived_Inh_FAH16to70	1.35E-08	0.00E+00												
246	ALL	667864.6	4280253	1.56E-08	3YrCancerDerived_Inh_FAH16to70	1.56E-08	0.00E+00												
247	ALL	667964.6	4280253	1.55E-08	3YrCancerDerived_Inh_FAH16to70	1.55E-08	0.00E+00												
248	ALL	668064.6	4280253	1.50E-08	3YrCancerDerived_Inh_FAH16to70	1.50E-08	0.00E+00												
249	ALL	668366.6	4278951	1.35E-06	3YrCancerDerived_Inh_FAH16to70	1.35E-06	0.00E+00												
250	ALL	668466.6	4278951	3.81E-07	3YrCancerDerived_Inh_FAH16to70	3.81E-07	0.00E+00												
251	ALL	668566.6	4278951	1.63E-07	3YrCancerDerived_Inh_FAH16to70	1.63E-07	0.00E+00												
252	ALL	668366.6	4279051	1.46E-06	3YrCancerDerived_Inh_FAH16to70	1.46E-06	0.00E+00												
253	ALL	668466.6	4279051	3.81E-07	3YrCancerDerived_Inh_FAH16to70	3.81E-07	0.00E+00												
254	ALL	668566.6	4279051	1.66E-07	3YrCancerDerived_Inh_FAH16to70	1.66E-07	0.00E+00												
255	ALL	668366.6	4279151	1.40E-06	3YrCancerDerived_Inh_FAH16to70	1.40E-06	0.00E+00												
256	ALL	668466.6	4279151	3.67E-07	3YrCancerDerived_Inh_FAH16to70	3.67E-07	0.00E+00												
257	ALL	668566.6	4279151	1.62E-07	3YrCancerDerived_Inh_FAH16to70	1.62E-07	0.00E+00												
258	ALL	668366.6	4279251	1.13E-06	3YrCancerDerived_Inh_FAH16to70	1.13E-06	0.00E+00												
259	ALL	668466.6	4279251	3.37E-07	3YrCancerDerived_Inh_FAH16to70	3.37E-07	0.00E+00												
260	ALL	668566.6	4279251	1.58E-07	3YrCancerDerived_Inh_FAH16to70	1.58E-07	0.00E+00												
261	ALL	668366.6	4279351	6.68E-07	3YrCancerDerived_Inh_FAH16to70	6.68E-07	0.00E+00												
262	ALL	668466.6	4279351	2.85E-07	3YrCancerDerived_Inh_FAH16to70	2.85E-07	0.00E+00												
263	ALL	668566.6	4279351	1.51E-07	3YrCancerDerived_Inh_FAH16to70	1.51E-07	0.00E+00												
264	ALL	668365.5	4279451	2.97E-07	3YrCancerDerived_Inh_FAH16to70	2.97E-07	0.00E+00												
265	ALL	668465.5	4279451	2.11E-07	3YrCancerDerived_Inh_FAH16to70	2.11E-07	0.00E+00												

Operational Residential Cancer Risk Results - Unmitigated

255	ALL	668366.6	4279151	7.88E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	7.88E-09	0.00E+00												
256	ALL	668466.6	4279151	6.09E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	6.09E-09	0.00E+00												
257	ALL	668566.6	4279151	2.62E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.62E-09	0.00E+00												
258	ALL	668366.6	4279251	4.54E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.54E-09	0.00E+00												
259	ALL	668466.6	4279251	5.86E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	5.86E-09	0.00E+00												
260	ALL	668566.6	4279251	3.36E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.36E-09	0.00E+00												
261	ALL	668366.6	4279351	2.98E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.98E-09	0.00E+00												
262	ALL	668466.6	4279351	4.21E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	4.21E-09	0.00E+00												
263	ALL	668566.6	4279351	3.22E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	3.22E-09	0.00E+00												
264	ALL	668365.5	4279451	2.12E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.12E-09	0.00E+00												
265	ALL	668465.5	4279451	2.90E-09	30YrCancerDerived_InhSoilDermMMilk_FAH16to70	2.90E-09	0.00E+00												

Energy Calculations

Land Use	Natural Gas kBTU/year	Natural Gas MMBTU/year	Electricity ¹ kWh/year	Electricity ¹ MWh/year	Diesel gallons/year
Arena	14025	1.40E+01	22517	22.517	
City Park	0	0.00E+00	0	0	
Fast Food Restaurant with Drive Thru	396011	3.96E+02	85767.9	85.7679	
General Office Building	200985	2.01E+02	146514	146.514	
General Office Building	47873	4.79E+01	34898.5	34.8985	
High Turnover (Sit Down Restaurant)	1.07E+06	1.07E+03	231527	231.527	
Hotel	655197	6.55E+02	308704	308.704	
Other Asphalt Surfaces	0	0.00E+00	0	0	
Other Non- Asphalt Surfaces	0	0.00E+00	0	0	
Parking Lot	0	0.00E+00	36011.5	36.0115	
Quality Restaurant	377668	3.78E+02	81795	81.795	
Regional Shopping Center	160373	1.60E+02	381852	381.852	
Supermarket	550189	5.50E+02	1002860.00	1002.86	
Emergency Generator	-	-	-	-	10
Total	3,471,331	3,471.331	2,332,447	2,332	10

¹ Electricity offset by 100% renewable energy.

Stationary Source		Amount	Usage Hours/yr	Horse Power	Load Factor	Average Daily Factor	Diesel Fuel Usage
Equipment							
Emergency Generator	1	1.00	469	0.73	0.6	10	

Energy Calculations Summary

Operational Fuel Use Summary

Fuel Type	Fleet Mix (%)	Gallons per Mile	Annual VMT	Gallons
Gasoline	98.69%	0.04	5,576,513	219,197
Diesel	1.31%	0.09		6,901

Notes:

1. Fleet mix calculated from CalEEMod default values.
2. Gallons per mile calculated from EMFAC 2014.
3. Annual VMT obtained from CalEEMod output file.

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: El Dorado

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Gasoline Fuel	Diesel Fuel
									Consumption 1,000 gallons/day	Consumption 1,000 gallons/day
El Dorado	2023	All Other Buses	Aggregate	Aggregate	DSL	47.30826554	3074.930827	0	0	0.371458761
El Dorado	2023	LDA	Aggregate	Aggregate	GAS	62696.99755	2349929.339	396475.6716	73.16448229	0
El Dorado	2023	LDA	Aggregate	Aggregate	DSL	796.136242	29604.26003	4957.150041		0.722249992
El Dorado	2023	LDA	Aggregate	Aggregate	ELEC	2972.656824	147919.7417	19335.54162	0	0
El Dorado	2023	LDT1	Aggregate	Aggregate	GAS	5833.460389	176397.1688	34210.42254	6.741541784	0
El Dorado	2023	LDT1	Aggregate	Aggregate	DSL	15.21322705	236.4237781	71.67393434		0.00859724
El Dorado	2023	LDT1	Aggregate	Aggregate	ELEC	1.396533215	56.43908641	8.717097137	0	0
El Dorado	2023	LDT2	Aggregate	Aggregate	GAS	29514.18108	1057896.327	183631.0129	45.49102109	0.00
El Dorado	2023	LDT2	Aggregate	Aggregate	DSL	50.58336879	2058.209584	320.9724014		0.065608746
El Dorado	2023	LHD1	Aggregate	Aggregate	GAS	2178.838642	54152.85126	32461.4493	5.684451414	0
El Dorado	2023	LHD1	Aggregate	Aggregate	DSL	2870.008924	75770.61416	36101.1018		4.399833667
El Dorado	2023	LHD2	Aggregate	Aggregate	GAS	167.7360201	5795.954967	2499.016773	0.650144573	0
El Dorado	2023	LHD2	Aggregate	Aggregate	DSL	691.3016783	21745.91698	8695.705455	0	1.386385454
El Dorado	2023	MCY	Aggregate	Aggregate	GAS	5316.560601	24509.43559	10632.05789	0.710251007	0
El Dorado	2023	MDV	Aggregate	Aggregate	GAS	21212.69917	602724.164	128643.1781	35.52480231	0.00
El Dorado	2023	MDV	Aggregate	Aggregate	DSL	338.9335849	12726.53861	2118.66669	0	0.529885359
El Dorado	2023	MH	Aggregate	Aggregate	GAS	650.6559442	4613.697761	65.09162066	0.704382525	0
El Dorado	2023	MH	Aggregate	Aggregate	DSL	234.7848664	1707.756748	23.47848664	0	0.180196064
El Dorado	2023	Motor Coach	Aggregate	Aggregate	DSL	11.80512498	1775.765088	0	0	0.304328421
El Dorado	2023	OBUS	Aggregate	Aggregate	GAS	66.4572842	2778.584749	1329.677342	0.423154791	0
El Dorado	2023	PTO	Aggregate	Aggregate	DSL	0	2930.802405	0	0	0.591825841
El Dorado	2023	SBUS	Aggregate	Aggregate	GAS	13.27172044	492.663527	53.08688178	0.04263922	0.00
El Dorado	2023	SBUS	Aggregate	Aggregate	DSL	85.81761209	3237.403196	0	0	0.445800348
El Dorado	2023	T6 Ag	Aggregate	Aggregate	DSL	47.80541569	812.558695	0	0	0.104650102
El Dorado	2023	T6 CAIRP heavy	Aggregate	Aggregate	DSL	4.549115224	247.8941269	0	0	0.028737064
El Dorado	2023	T6 CAIRP small	Aggregate	Aggregate	DSL	11.62706561	760.9737874	0	0	0.089290745
El Dorado	2023	T6 instate construction he	Aggregate	Aggregate	DSL	13.30123098	1009.370776	0	0	0.12223977
El Dorado	2023	T6 instate construction sm	Aggregate	Aggregate	DSL	128.458303	7577.894804	0	0	0.899630385
El Dorado	2023	T6 instate heavy	Aggregate	Aggregate	DSL	408.632151	16549.99232	0	0	1.986693709
El Dorado	2023	T6 instate small	Aggregate	Aggregate	DSL	739.8768765	39240.63145	0	0	4.70850651
El Dorado	2023	T6 OOS heavy	Aggregate	Aggregate	DSL	2.638703631	142.0340184	0	0	0.016470508
El Dorado	2023	T6 OOS small	Aggregate	Aggregate	DSL	6.66187163	436.0093815	0	0	0.051160241
El Dorado	2023	T6 Public	Aggregate	Aggregate	DSL	405.5960274	7338.352366	0	0	0.891250355
El Dorado	2023	T6 utility	Aggregate	Aggregate	DSL	8.779306062	165.9061696	0	0	0.020336049
El Dorado	2023	T6TS	Aggregate	Aggregate	GAS	165.9814323	6282.833531	3320.956497	0.986645228	
El Dorado	2023	T7 Ag	Aggregate	Aggregate	DSL	0.834782161	14.36495985	0	0	0.002815805
El Dorado	2023	T7 CAIRP	Aggregate	Aggregate	DSL	24.14668835	5631.142725	0	0	0.892009659
El Dorado	2023	T7 CAIRP construction	Aggregate	Aggregate	DSL	2.961978685	716.0399374	0	0	0.114344329
El Dorado	2023	T7 NNOOS	Aggregate	Aggregate	DSL	26.67967584	6982.623985	0	0	1.077896212
El Dorado	2023	T7 NOOS	Aggregate	Aggregate	DSL	9.689290207	2224.299716	0	0	0.358996439
El Dorado	2023	T7 POAK	Aggregate	Aggregate	DSL	0.34678143	52.18785317	0	0	0.00823999
El Dorado	2023	T7 Public	Aggregate	Aggregate	DSL	238.7045751	5466.284869	0	0	1.047261656
El Dorado	2023	T7 Single	Aggregate	Aggregate	DSL	163.6767763	14760.10673	0	0	2.45660994
El Dorado	2023	T7 single construction	Aggregate	Aggregate	DSL	19.09382146	1852.301106	0	0	0.292382867
El Dorado	2023	T7 SWCV	Aggregate	Aggregate	DSL	34.81669955	1603.539749	0	0	0.707234697
El Dorado	2023	T7 tractor	Aggregate	Aggregate	DSL	3.149532699	308.6463152	0	0	0.048581866
El Dorado	2023	T7 tractor construction	Aggregate	Aggregate	DSL	15.38933887	1381.027378	0	0	0.219274552
El Dorado	2023	T7 utility	Aggregate	Aggregate	DSL	1.380392728	31.54563616	0	0	0.005972731
El Dorado	2023	T7IS	Aggregate	Aggregate	GAS	15.32984055	1201.459356	306.7194497	0.263805635	0
El Dorado	2023	UBUS	Aggregate	Aggregate	GAS	20.09592414	2183.486198	80.38369657	0.435855333	0
El Dorado	2023	UBUS	Aggregate	Aggregate	DSL	26.14975171	2966.420216	104.5990069	0	0.662486739
						TOTAL	4,710,075		170.82	25.82 24.0 0.04
						Total (Gas)	4,288,958			25.1 0.04
						Total (Diesel)	273,141			10.6 0.09
						Annual VMT	5,576,513			
							Mix (%)	Miles	Gallons	
						Gas	98.7%	5,503,505	219,197	
						Diesel	1.3%	73,008	6,901	

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
All Project Land Uses	0.536606	0.037513	0.22504	0.130667	0.027584	0.005847	0.017105	0.009587	0.00162	0.001093	0.005204	0.000792	0.001342

Gas 98.7%
Diesel 1.3%

Energy Calculations Summary

Construction Fuel Usage Summary

	Diesel	Gasoline	Diesel	
Construction Year	Off-road Equipment (gallons)	On-road (gallons)	On-road (gallons)	Combined
2020	67,531	19,665	60,990	128,522
2021	20,597	9,506	105	20,701
2022	6,081	31	11	6,092
TOTAL	94,209	29,203	61,106	155,314

Total Gasoline	29,203	gallons
Total Diesel	155,314	gallons

2020-2022 Construction Offroad Equipment - Montano

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Average Daily Factor	Diesel Fuel Usage
Phase 1								
2020								
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40	10	0.6	711
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37	10	0.6	345
Grading	Excavators	2	8.00	158	0.38	304	0.6	8,761
Grading	Graders	1	8.00	187	0.41	304	0.6	5,594
Grading	Rubber Tired Dozers	1	8.00	247	0.40	304	0.6	7,208
Grading	Scrapers	2	8.00	367	0.48	304	0.6	25,705
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37	304	0.6	5,237
Trenching	Trenchers	1	8.00	78	0.50	10	0.6	94
Building Construction	Cranes	1	7.00	231	0.29	200	0.6	2,814
Building Construction	Forklifts	3	8.00	89	0.20	200	0.6	2,563
Building Construction	Generator Sets	1	8.00	84	0.74	200	0.6	2,984
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	200	0.6	4,522
Building Construction	Welders	1	8.00	46	0.45	200	0.6	994
2021								
Grading	Excavators	2	8	158	0.38	11	0.6	317
Grading	Graders	1	8	187	0.41	11	0.6	202
Grading	Rubber Tired Dozers	1	8	247	0.4	11	0.6	261
Grading	Scrapers	2	8	367	0.48	11	0.6	930
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37	11	0.6	189
Building Construction	Cranes	1	7.00	231	0.29	100	0.6	1,407
Building Construction	Forklifts	3	8.00	89	0.20	100	0.6	1,282
Building Construction	Generator Sets	1	8.00	84	0.74	100	0.6	1,492
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	100	0.6	2,261
Building Construction	Welders	1	8.00	46	0.45	100	0.6	497
Paving	Pavers	2	8.00	130	0.42	20	0.6	524
Paving	Paving Equipment	2	8.00	132	0.36	20	0.6	456
Paving	Rollers	2	8.00	80	0.38	20	0.6	292
Architectural Coating	Air Compressors	1	6.00	78	0.48	20	0.6	135
Phase 2								
2021								
Building Construction	Cranes	1	8.00	231	0.29	173	0.6	2,781
Building Construction	Forklifts	2	7.00	89	0.20	173	0.6	1,293
Building Construction	Generator Sets	1	8.00	84	0.74	173	0.6	2,581
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37	173	0.6	1,118
Building Construction	Welders	3	8.00	46	0.45	173	0.6	2,578
2022								
Building Construction	Cranes	1	8.00	231	0.29	47	0.6	756
Building Construction	Forklifts	2	7.00	89	0.20	47	0.6	351
Building Construction	Generator Sets	1	8.00	84	0.74	47	0.6	701
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37	47	0.6	304
Building Construction	Welders	3	8.00	46	0.45	47	0.6	700
Architectural Coating	Air Compressors	1	6.00	78	0.48	10	0.6	67
Phase 3								
2022								
Building Construction	Cranes	1	4.00	231	0.29	100	0.6	804
Building Construction	Forklifts	2	6.00	89	0.20	100	0.6	641
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37	100	0.6	1,723
Architectural Coating	Air Compressors	1	6.00	78	0.48	5	0.6	34
2020 TOTAL								67,531
2021 TOTAL								20,597
2022 TOTAL								6,081
Project TOTAL								94,209

	Year	Start Date	End Date	Network Days
Phase 1				
Site Preparation	2020	1/1/2020	1/11/2020	10
Grading	2020	1/13/2020	12/31/2020	304
	2021	1/1/2021	1/13/2021	11
Trenching	2020	5/1/2020	5/12/2020	10
Building Construction	2020	5/13/2020	12/31/2020	200
	2021	1/1/2021	4/27/2021	100
Paving	2021	4/28/2021	5/20/2021	20
Architectural Coating	2021	5/21/2021	6/12/2021	20
Phase 2				
Building Construction	2021	6/14/2021	12/31/2021	173
	2022	1/1/2022	2/24/2022	47
Architectural Coating	2022	2/25/2022	3/8/2022	10
Phase 3				
Building Construction	2022	3/9/2022	7/2/2022	100
Architectural Coating	2022	7/4/2022	7/8/2022	5

Trips and VMT

2020

Phase Name	Daily Worker Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Hauling Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel	
P1: Site Preparation	18	10	180	0	0	10.80	7.30	20.00	1944	0	0	75	0	
P1: Grading	20	304	6080	0	18094	10.80	7.30	20.00	65664	0	361880	2,539	60,891	
P1: Trenching	3	10	30	0	0	10.80	7.30	20.00	324	0	0	13	0	
P1: Building Construction	204	200	40800	81	0	10.80	7.30	20.00	440640	591.3	0	17,039	99	
												TOTAL	19,665	60,990

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

2021

Phase Name	Daily Worker Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Hauling Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel	
P1: Grading	20	11	220	0	0	10.80	7.30	20.00	2376	0	0	89	0	
P1: Building Construction	204	100	20400	81	0	10.80	7.30	20.00	220320	591.3	0	8,263	98	
P1: Paving	15	20	300	0	0	10.80	7.30	20.00	3240	0	0	122	0	
P1: Architectural Coating	41	20	820	0	0	10.80	7.30	20.00	8856	0	0	332	0	
P2: Building Construction	10	173	1730	5	0	10.80	7.30	20.00	18684	36.5	0	701	6	
												TOTAL	9,506	105

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

2022

Phase Name	Daily Worker Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Hauling Trips	Worker Trip Length (miles)	Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel	
P2: Building Construction	10	47	470	5	0	10.80	7.30	20.00	5076	36.5	0	12	6	
P2: Architectural Coating	2	10	20	0	0	10.80	7.30	20.00	216	0	0	1	0	
P3: Building Construction	7	100	700	4	0	10.80	7.30	20.00	7560	29.2	0	18	5	
P3: Architectural Coating	1	5	5	0	0	10.80	7.30	20.00	54	0	0	0	0	
												TOTAL	31	11

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: El Dorado

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CaYr	VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per gallon	Diesel miles per gallon
El Dorado	2020	LDA	Aggregated	Aggregated	GAS	57240.04389	2234289.025	361306.0209	76.16436578	0.00	29.34	25.86	5.94
El Dorado	2020	LDT1	Aggregated	Aggregated	GAS	6270.826923	188095.3885	36747.08889	7.943511835	0.00	23.68		
El Dorado	2020	LDT2	Aggregated	Aggregated	GAS	27579.82687	1022048.691	171710.0849	48.44779314	0.00	21.10		
El Dorado	2020	T7 tractor construction	Aggregated	Aggregated	DSL	14.23732673	1277.528275	0	0.00	0.2149602	5.94		

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: El Dorado

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per gallon	Diesel miles per gallon
El Dorado	2021	LDA	Aggregated	Aggregated	GAS	59086.6213	2280697.527	373278.4882	75.41743287	0.00	30.24	26.66	6.01
El Dorado	2021	LDT1	Aggregated	Aggregated	GAS	6098.347856	183450.7858	35730.60993	7.512364087	0.00	24.42		
El Dorado	2021	LDT2	Aggregated	Aggregated	GAS	28204.03243	1034597.539	175555.0729	47.55915209	0.00	21.75		
El Dorado	2021	T7 tractor construction	Aggregated	Aggregated	DSL	14.68821717	1312.621661	0	0.00	0.218549655	6.01		

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: El Dorado

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdYr	Speed miles/hr	Fuel	Population vehicles	VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per gallon	Diesel miles per gallon
El Dorado	2022	LDA	Aggregated	Aggregated	GAS	60916.68657	2316594.39	385077.4155	74.32612822	0.00	31.17	412.59	6.08
El Dorado	2022	LDT1	Aggregated	Aggregated	GAS	5954.827454	179447.4934	34896.72253	7.109136385	0.00	25.24		
El Dorado	2022	LDT2	Aggregated	Aggregated	GAS	28848.45346	1045430.221	179521.6786	0.668958583	0.00	1562.77		
El Dorado	2022	T7 tractor construction	Aggregated	Aggregated	DSL	15.08696567	1347.121362	0	0.00	0.22159546	6.08		

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).