LOS ANGELES COUNTY PUBLIC WORKS

LEAD AGENCY: LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ADDENDUM TO A PROGRAM ENVIRONMENTAL IMPACT REPORT

SUN VALLEY WATERSHED MANAGEMENT PLAN

SUBJECT:	Preparation of an Addendum to a Program Environmental Impact Report (PEIR) in compliance with California Environmental Quality Act (CEQA), Section 15164.
PROJECT:	This Addendum evaluates two separate but related projects that were originally identified in the Sun Valley Watershed Management Plan (SVWMP) – construction and operation of the Rory M. Shaw Wetlands Park and installation of the Sun Valley Watershed Upper Storm Drain System Phases 2 – 4 (Upper Storm Drain System). Note that the Rory M. Shaw Wetlands Park project was originally named the Strathern Pit project in PEIR prepared in support of the SVWMP. An Addendum to the PEIR that evaluated changes in this project was adopted in 2013. In the 2013 Addendum and this document, this project is referred to as the Rory M. Shaw Wetlands Park. Additionally in this document, prior versions of this project are referred to as the 2004 Approved Wetlands Park project (when discussing this project as it was described and evaluated in the 2004 PEIR) and the 2013 Approved Wetlands Park project (when discussing this project as it was described and evaluated in the 2013 Addendum). **Rory M. Shaw Wetlands Park** The Rory M. Shaw Wetlands Park project includes conversion of a 46-acre, non-operating inert construction debris landfill into a constructed wetlands park that would provide flood control, habitat, recreation, and water quality enhancements to the Sun Valley community, including a 21-acre detention pond, 10 acres of wetlands, and 15 acres of recreational space. The currently proposed Rory M. Shaw Wetlands Park project would capture stormwater runoff collected from upstream drainage areas to alleviate flooding in the Sun Valley community. The proposed design would provide a water conservation benefit through the reuse of stormwater. Runoff would be temporarily stored in a detention pond, routed through wetlands for natural treatment of pollutants, and pumped into existing underground infiltration basins at the adjacent Sun Valley Park. As currently proposed, this project would provide up to 15 acres of recreational open space. The proposed detention pond would have a footprint of approximately 21 acres and a maximum depth of 50 feet, with a total storage capacity of 385 acre-feet. The proposed wetlands would provide sustainable habitat for various plant and animal species, and a natural water treatment system for removing pollutants from the collected stormwater runoff. The treated stormwater would be pumped to the existing adjacent Sun Valley Park infiltration basins for groundwater recharge. Construction activities for the Rory M. Shaw Wetlands Park project are divided into three phases: Phase 1, Site Investigations and Demolition; Phase 2, Crushing and Grading; and Phase 3, Above Ground Improvements. Phase 1 was completed in 2017. Phase 2 would include the following construction components: mobilization, demolition, site preparation, grading and deep dynamic compaction (DDC), hauling and/or transporting materials by conveyor belt to the adjacent AMH Recycling facility located at 11253 Vinedale Street, concrete crushing, and drainage/utility installation. Phase 3 would include construction of the detention pond and wetlands, installation of the passive methane system, trenching

	and utility installation, recreational components, and landscaping. The proposed revisions to the Rory M. Shaw Wetlands Park project include DDC activities over the detention pond footprint; the hauling of excess materials offsite; addition of a passive methane treatment system; and an on-site crushing component. Additionally, although the project site boundary has not changed, the aboveground components of this project have been slightly altered in location. As an interim measure prior to initiation of Phase 2, the County plans to install perimeter fencing and landscaping at the project site. This work will include replacing existing chain link fencing with an 8-foot-tall tubular fence; amending soil and installing landscaping to include shrubs and up to ninety 24-inch box trees around the perimeter of the site; and installing an irrigation system. These actions are a separate project aimed to secure the property and improve site aesthetics and were addressed in a California Environmental Quality Act (CEQA) Notice of Exemption filed in August 2024. Upper Storm Drain System The currently proposed Upper Storm Drain System Phases 2 – 4 project includes installation of storm drain lines below existing roads in the Sun Valley area. The system would collect stormwater runoff from the northern portions of the Sun Valley watershed and convey the stormwater to the proposed Rory M. Shaw Wetlands Park where water would be temporarily stored in a detention pond, routed through engineered wetlands for pollutant removal, and used for groundwater recharge in the existing infiltration basins at Sun Valley Park. The Upper Storm Drain System project is located in the Sun Valley Community within the City of Los Angeles, approximately 14 miles northwest of downtown Los Angeles in the northeastern portion of San Fernando Valley. The first phase of the Upper Storm Drain System was completed in 2021. Phases 2 – 4 involve installation of approximately 28,200 linear feet of storm drain lines below existing roads in the Sun Valley area as well as installation of catch basins, connector pipes, and other drainage structures. The construction of storm drains/pipelines would typically require a construction zone that ranges from 20 to 50 feet in width and from 200 to 500 feet in length to accommodate the activities of removing surface pavement, digging a trench, construction shoring, installing the pipe, back-filling, compacting the fill material, and reconstructing/paving the surface area. All excavated areas would be resurfaced, the public roads would be returned to their existing conditions upon completion of storm drain construction, and no trees will be removed. It is anticipated that the construction zone would advance linearly along the route at an average rate of 200 to 500 feet per day. Individual locations along the storm drain system alignment would be directly impacted by the construction activities for a duration of one to five days under typical conditions.
MODIFICATIONS:	The Rory M. Shaw Wetlands Park and the Upper Storm Drain System projects were evaluated in the 2004 SVWMP Program EIR and in an EIR Addendum adopted in 2013. In addition, the Upper Storm Drain System project was evaluated in an EIR Addendum adopted in 2020. Both the Rory M. Shaw Wetlands Park and the Upper Storm Drain System projects are proposed to be modified from the projects described in the 2013 and 2020 Addenda. The following sections and Tables 1 and 2 provide a summary comparison of the individual components of each project as they were described and evaluated in the 2004 PEIR and the applicable subsequent CEQA documents, as well as the modifications that are reflected in these currently proposed projects.

Table 1: Rory M. Shaw Wetlands Park Project Modifications

Project Component	*2004 Approved Wetlands Park Project*	*2013 Approved Wetlands Park Project*	*Currently Proposed Wetlands Park Project*
Site Preparation	Not described	Not described	Vegetation clearing and grading across the 46-acre site, including regrading of the existing berm and stockpiles, removal of perimeter fencing and landscaping that is planned to be installed at the site as a separate project intended to improve aesthetics and security.
Hauling	Not included	Not included	Approximately 550,000 cubic yards of materials would be hauled off-site to existing offsite disposal facilities.
Off-Site Components	Not Included	Not Included	Some materials excavated from the project site may be transported via conveyor belt to the adjacent AMH Recycling facility for processing. This would not involve any ground disturbing activities at the AMH Recycling facility.
Crushing	Not Included	Not Included	Crushing activities are anticipated to last approximately 4 years. Crushing would be accomplished with two sets of crushing equipment.
Detention Pond	Terraced side slopes with five levels with the deepest part approximately 50 feet below street level. The bottom portion of basin would be operated as a wetland (500 to 700 acre-feet of storage).	Surface area of 21 acres, depth of 50 feet, and up to 400 acre-feet of storage. Raw water pump station within the detention pond.	Surface area of 21 acres, depth of 50 feet, and up to 385 acre-feet of storage. Raw water pump station within the detention pond.
Wetland		10 acres of wetlands in the northern and western portion of the project site.	10 acres of wetlands concentrated to the east side of the site.
Storm Drain System	Not included	4.5-mile storm drain system that would capture and convey runoff from the 929-acre tributary area and deliver it to the detention pond within the 2013 Approved Wetlands Park project.	Described separately as the Upper Storm Drain System
Transfer Pipeline	Infiltration option would require a 14,000-foot-long	1,200 feet of transfer pipeline to convey the treated runoff from the	Same as 2013 Approved Project

Table 1: Rory M. Shaw Wetlands Park Project Modifications

Project Component	*2004 Approved Wetlands Park Project*	*2013 Approved Wetlands Park Project*	*Currently Proposed Wetlands Park Project*
	pipeline and a 100- to 150-horsepower. pump to transport the water to the Tujunga Spreading Grounds, where the water would be used for groundwater recharge.	wetlands to the adjacent Sun Valley Park for groundwater recharge.	
Recycled Water Line	Not included	2.75-mile recycled water line would connect the existing recycled water line at the LADWP Valley Generating Steam Plant and terminate at the 2013 Approved Wetlands Park project.	Not included
Aboveground Components	Alternatives range from 7 to 14 acres	15 acres, includes 160 parking stalls, restroom, tot lot, tennis courts, amphitheater, open space play area, basketball courts, picnic area, exercise station, trails, and wet well pump station near the southerly bathrooms.	15 acres, conceptual design includes approximately 160 parking stalls, soccer field, picnic area, picnic pavilion, amphitheater, two restroom buildings, tot lot, tennis courts, open space area, basketball courts, trails, and wet well pump station near the southerly bathrooms.
Deep Dynamic Compaction	Not included	Not included	The proposed DDC activities are intended to achieve sufficient compaction to minimize chances of differential settlement on the site. DDC uses principles of transforming potential energy to kinetic energy to densify ground through utilization of weights, supported by a crane, and free fall impact to the ground to increase the density of soil.
Passive Methane Treatment System	Not Included	Not Included	The proposed passive methane treatment would be located along the northern and western property line and along the southern boundary of the existing concrete pad. The proposed passive methane treatment would consist of 31 wells designed to prevent methane gas intrusion into the proposed aboveground structures and eight probes would be located along the

Table 1: Rory M. Shaw Wetlands Park Project Modifications

Project Component	*2004 Approved Wetlands Park Project*	*2013 Approved Wetlands Park Project*	*Currently Proposed Wetlands Park Project*
			southern boundary of the existing concrete pad which can be later converted to collector pipes if needed. It is anticipated that the wells would be drilled to a depth of approximately 45 feet.
Landscaping	Not described, although, concept design identifies landscaping.	Includes approximately 432 new trees and 109,505 new shrubs. Landscaping is proposed throughout the project site and surrounding the detention ponds and wetland areas.	Same as 2013 Approved Wetlands Park Project

Table 2. Upper Storm Drain System Project Modifications

Project Component	*2004 Storm Drain*	*2013 Upper Storm Drain*	*2020 Upper Storm Drain System*	*Currently Proposed Project*
Overall Description	The 2004 Program EIR identified that storm drains would be constructed underground within existing roadways in the project area, to 1) collect stormwater and convey it to the various project components while minimizing flooding in the streets, and 2) supplement the flood control capacities of other project components (retention facilities) in the southern watershed. Approximate alignments of the storm drains, including the Upper Storm Drain System, are shown in Figure 3-17 of the 2004 PEIR. The EIR did not include information about phasing for specific storm drain networks.	Construction of a 4.5-mile storm drain system to capture and convey runoff from the 929-acre tributary area and deliver it to the detention pond within the Rory M. Shaw wetlands park. The storm drain will be sized to convey a maximum flow rate of 990 cubic feet per second, however, the design capacity of the storm drain will be limited by the capacity of the detention pond (400 acre-feet). The storm drain will be constructed along Glenoaks Boulevard and Tuxford Street. From the intersection of Tuxford Street and San Fernando Road, the storm drain will connect to Tujunga Avenue and Penrose Street following a revised route from that proposed in the PEIR. This revised route shortened the total length of the storm drain compared to the original	Four phases of construction of 28,600 linear feet of RCP, catch basins, connector pipes, and other drainage structures and a 2.5-foot by 10.5-foot reinforced concrete box to direct overflow from the detention basin within the Rory M. Shaw Wetlands Park to outlet onto Project 39. Phase 1 involved construction of approximately 3,600 linear feet of RCP, catch basins, connector pipes, and other drainage structures along Tujunga Avenue, Penrose Steet, and Gross Street.	The overall description remains the same as described in the 2020 EIR Addendum except that the total length of RCP for Phases 2 – 4 is reduced to 28,200 linear feet. Details of changes to individual phases are presented in the following rows. Phase 1 was completed in 2021 and is not evaluated in this Addendum.

Table 2. Upper Storm Drain System Project Modifications

Project Component	*2004 Storm Drain*	*2013 Upper Storm Drain*	*2020 Upper Storm Drain System*	*Currently Proposed Project*
		plans presented in the 2004 PEIR.		
Phase 2	Phasing was not described in the 2004 PEIR	Phasing was not described in the 2013 Addendum	Involves the construction approximately 12,600 linear feet of RCP main line storm drains, 3,200 linear feet of RCP storm drain laterals, catch basins, connector pipes, and other drainage structures primarily along San Fernando Road, Tuxford Street, Glenoaks Boulevard, and Sheldon Street. The storm drain will extend into the existing Tuxford Drain, which is located at the intersection of Tuxford Street and San Fernando Road. Construction was estimated to require 280 days.	Storm drain lines would be constructed as described in the 2020 Addendum, except that the main line length would be 12,000 linear feet, which is 600 linear feet less than what was anticipated in the 2020 Addendum. Construction duration is estimated to be 840 days with two crews, which is 560 days more than was expected in the 2020 Addendum.
Phase 3	Phasing was not described in the 2004 PEIR	Phasing was not described in the 2013 Addendum	Construction of RCP, catch basins, connector pipes, and other drainage structures primarily along San Fernando Road and Sheldon Street. The storm drain will extend into the existing Tuxford Drain. The approximate length of the work of Phase 3 is 6,500 feet (main line) and 600	Storm drain lines would be constructed as described in the 2020 Addendum. The tunnel in the vicinity of existing Metro railroad tracks would be 40 feet shorter than described in the 2020 Addendum, for a total length of 71 linear feet. Construction duration is expected to be

Table 2. Upper Storm Drain System Project Modifications

Project Component	*2004 Storm Drain*	*2013 Upper Storm Drain*	*2020 Upper Storm Drain System*	*Currently Proposed Project*
			feet of laterals. This phase also includes tunneling approximately 112 linear feet of 48-inch RCP in the vicinity of existing Metro railroad tracks. Construction duration was expected to be approximately 160 days	approximately 330 days, which is 170 days longer than anticipated in the 2020 Addendum.
Phase 4	Phasing was not described in the 2004 PEIR	Phasing was not described in the 2013 Addendum	Construction of a 66-inch RCP and a 2.5-foot by 10.5-foot reinforced concrete box to direct overflow from the detention basin within the Rory M. Shaw Wetlands Park to outlet onto Project 39, which is an existing storm drain line below Vineland Avenue that continues south. Construction would primarily take place on Vineland Avenue, Tujunga Avenue and Saticoy Street. The approximate length of the work of Phase 4 is 5,900 feet. Construction duration was expected to be approximately 155 days	This phase would be implemented as described in the 2020 Addendum except that construction duration is expected to be approximately 620 days, which is 465 days longer than anticipated in the 2020 Addendum.

Table 3 Upper Storm Drain System Segments

Roadway Name	Segment	Linear Feet	Adjacent Land Uses
Phase 2			
San Fernando Road	Penrose Street to Tuxford Drain (at Tuxford Street)	1500	Southern Pacific Railroad, industrial
Penrose Street	San Fernando Road to 250 feet west of San Fernando Road (to connect to Phase 1)	250	Industrial
Tuxford Street	Tuxford Drain (at San Fernando Road) to Glenoaks Boulevard	3900	Industrial, including gravel processing plant
Glenoaks Boulevard	Tuxford Street to Sheldon Street	5800	Public/institutional, industrial, including Vulcan Landfill
Sheldon Street	Glenoaks Boulevard to Wentworth Street	1800	Industrial, including Sheldon Pit
Bradley Avenue	Tuxford Street to 160 feet northwest of Tuxford Street	160	Industrial, including gravel processing plant
Norris Avenue	Tuxford Street to Pendleton Street	1450	Industrial
De Garmo Avenue	Tuxford Street to Randall Street	715	Industrial
La Tuna Canyon	Glenoaks Boulevard to Tuxford Street	150	Industrial
Randall Street	Glenoaks Boulevard to 150 feet east of Glenoaks Boulevard	150	Industrial
Pendleton Street	Glenoaks Boulevard to 215 feet east of Glenoaks Boulevard	215	Industrial
Peoria Street	Glenoaks Boulevard to 415 feet east of Glenoaks Boulevard	415	Industrial, including Vulcan Landfill
Phase 3			
San Fernando Road	Existing Tuxford Drain to Sheldon Street	5800	Industrial, including gravel processing plant, and railroad
Sheldon Street	San Fernando Road to 500 feet east of San Fernando Road	500	Industrial, including gravel processing plant
Phase 4			
Tujunga Avenue	430 feet north of Strathern Street (at Rory M. Shaw Wetlands Park) to Saticoy Street	3100	Residential, industrial
Saticoy Street	Vineland Avenue to Tujunga Avenue	2700	Residential, commercial
Vineland Avenue	Saticoy Street to 200 feet south of Saticoy Street (connecting to existing Project 39)	200	Residential, commercial

Table 4 Upper Storm Drain System Storm Drain Locations and Sizes

Phase and Roadway Name	Segment	Storm Drain Pipe Size	Other Drainage Elements
Phase 2			
San Fernando Road	Penrose Street to Tuxford Drain (at Tuxford Street)	96" RCP	Catch basins; connector pipes
Penrose Street	San Fernando Road to 250 feet west of San Fernando Road (to connect to Phase 1)	96" RCP	Catch basins; connector pipes
Tuxford Street	Tuxford Drain (at San Fernado Road) to Glenoaks Boulevard	96" RCP; 84" RCP; 72" RCP	Catch basins; connector pipes
Glenoaks Boulevard	Tuxford Street to Sheldon Street	72" RCP; 66" RCP; 48" RCP	Catch basins; connector pipes
Sheldon Street	Glenoaks Boulevard to Wentworth Street	48" RCP	Catch basins; connector pipes
Bradley Avenue	Tuxford Street to 160 feet northwest of Tuxford Street	30" RCP	Catch basins; connector pipes
Norris Avenue	Tuxford Street to Pendleton Street	42" RCP	Catch basins; connector pipes
De Garmo Avenue	Tuxford Street to Randall Street	30" RCP	Catch basins; connector pipes
La Tuna Canyon	Glenoaks Boulevard to Tuxford Street	24" RCP (Lateral)	Catch basins; connector pipes
Randall Street	Glenoaks Boulevard to 150 feet east of Glenoaks Boulevard	24" RCP (Lateral)	Catch basins; connector pipes
Pendleton Street	Glenoaks Boulevard to 215 feet east of Glenoaks Boulevard	36" RCP (Lateral)	Catch basins; connector pipes
Peoria Street	Glenoaks Boulevard to 415 feet east of Glenoaks Boulevard	48" RCP	Catch basins; connector pipes
Phase 3			
San Fernando Road	Existing Tuxford Drain to Sheldon Street	60" RCP; 48" RCP	320' of 24" RCP Lateral installed at San Fernando Rd (South); 270' of 24" RCP Lateral at San Fernando Rd (North); Catch basins; connector pipes
Sheldon Street	San Fernando Road to 500 feet east of San Fernando Road	48" RCP	Catch basins; connector pipes
Phase 4			
Tujunga Avenue	430 feet north of Strathern Street (at Rory M. Shaw Wetlands Park to Saticoy Street	66" RCP	Catch basins; connector pipes

Table 4 Upper Storm Drain System Storm Drain Locations and Sizes

Phase and Roadway Name	Segment	Storm Drain Pipe Size	Other Drainage Elements
Saticoy Street	Vineland Avenue to Tujunga Avenue	2.5'H x 10.5'W RCB; 66" RCP	Catch basins; connector pipes
Vineland Avenue	Saticoy Street to 200 feet south of Saticoy Street (connecting to existing Project 39)	30" RCP	Catch basins; connector pipes

LOCATION:	The Rory M. Shaw Wetlands Park project and the Upper Storm Drain System project are both located in the Sun Valley Community within the City of Los Angeles, approximately 14 miles northwest of downtown Los Angeles in the northeastern portion of San Fernando Valley (Figure 1, Project Location). Rory M. Shaw Wetlands Park This project site is bounded by Strathern Street and single-family residential uses to the south; Tujunga Avenue, a truck stop, industrial uses, and the Gol Soccer Complex to the west; Roscoe Boulevard and recycling facilities to the north; and Fair Avenue, Sun Valley Park, and single-family residential uses to the east (Figure 2, Rory M. Shaw Wetlands Park Project Vicinity). The project site boundaries for the Rory M. Shaw Wetlands Park project are the same as described in the 2004 PEIR and the 2013 Addendum. Upper Storm Drain System This project site is located along Glenoaks Boulevard, San Fernando Road, Tuxford Street, and Tujunga Avenue. The Upper Storm Drain System project would be constructed primarily to the north of the Rory M. Shaw Wetlands Park project (Figure 3, Upper Storm Drain System Project Site). Phase 2 would be installed northeast of the park (Penrose Street, San Fernando Road, Tuxford Street, Norris Avenue, Bradley Avenue, De Garmo Avenue, Glenoaks Boulevard, Peoria Street, Pendleton Street, and Randall Street), Phase 3 would be constructed northwest of the park (Sheldon Street and San Fernando Road), and Phase 4 would be located south of the park (Tujunga Avenue and Saticoy Street).
PROJECT DESCRIPTION:	This section provides an overview of the SVWMP and descriptions of the 2004 Approved Wetlands Park project, the 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project, the 2004 Approved Storm Drains project, the 2013 Approved Storm Drains project, the 2020 Approved Upper Storm Drain System project, and the currently proposed Upper Storm Drain System Phases 2 – 4 project. Overview The 2004 PEIR (certified on June 29, 2004) evaluated the SVWMP, which consists of multiple projects, each designed to manage stormwater runoff and reduce flooding. The County of Los Angeles Board of Supervisors, acting as the governing body of the Los Angeles County Flood Control District (District) adopted the SVWMP in 2004 to solve the chronic local flooding problem in the Sun Valley Watershed of the San Fernando Valley. The Sun Valley watershed is located in northeastern San Fernando Valley within the eastern portion of the San Fernando Valley Groundwater Basin. It is bound to the north by the San Gabriel Mountains, to the east by the Verdugo Mountains, to the west by the Simi Hills and to the south by the Santa Monica Mountains. The Sun Valley Watershed is a highly urbanized watershed that drains into the Los Angeles River, which is located approximately 2 miles from the southern end of the watershed. Other surface water features in the vicinity include the Tujunga Wash and the Hansen Dam/Lake. The SVWMP covers 4.4 square miles in the communities of North Hollywood and Sun Valley, in the northeast portion of the City of Los Angeles. The SVWMP is a long-range plan that provides a blueprint for a multi-purpose flood control program in the area. The SVWMP acknowledges that rainfall is a significant component of the water supply in the semi-arid region. The District began working towards a multi-purpose solution to area flooding in November 1998. The District held regular meetings and engaged over 65 stakeholders comprised of Federal, State, and local agencies, and nonprofit and community groups interested in the

	Sun Valley Watershed area. By 2004 the District, with input from the stakeholders, had developed the SVWMP and held several town hall meetings to present and discuss the SVWMP with the community. The community and stakeholders have been very supportive of the SVWMP and are eager for plan implementation. The SVWMP identified 18 best management practice projects that focused on flood protection, increased water conservation, improved water quality, increased habitat restoration, and enhanced recreational opportunities for underserved areas. The majority of the components would involve construction and operation of stormwater storage and/or infiltration facilities. The collected stormwater would be treated prior to groundwater recharge or reuse (irrigation or gravel washwater). Where appropriate, stormwater storage facilities would be designed to provide recreational facilities and/or wildlife habitat areas. In addition, catch basins and storm drains are proposed to collect and convey runoff and reduce flows carried on street surfaces. Prior to adoption and implementation of the SVWMP, there were no major storm drain systems within the watershed and flooding issues were a community concern even during minor low intensity rain events. The District has implemented two components identified in the SVWMP, but many areas still do not have storm drain systems. During rain events, stormwater flows in the Sun Valley area are conveyed along street surfaces and collected at several of the major intersections in the area. Flood depths could range from two to three feet in moderate rainfall events, which would impede pedestrian and vehicle traffic. Although storm drains can be highly effective at quickly and efficiently conveying stormwater away from people and properties, they do not provide any water quality treatment and only divert polluted urban runoff into rivers and the ocean. The SVWMP addressed this by including several water quality treatment improvements in addition to stormwater detention and conveyance improvements. Overall, the SVWMP is expected to reduce flooding, reduce the pollutant load in downstream surface waters, increase groundwater recharge, and reduce demands for potable water by reusing treated stormwater for non-potable purposes, such as for landscape irrigation. The District is currently planning to implement two of the projects identified in the SVWMP – the Upper Storm Drain System project Phases 2 – 4 and the Rory M. Shaw Wetlands Park project. The Upper Storm Drain System Phases 2 – 4 project would construct approximately 28,200 linear feet of storm drains beneath existing public roads. The District implemented Phase 1 of the Upper Storm Drain System in 2021. This system would collect and convey stormwater to the planned Rory M. Shaw Wetlands Park project. The Rory M. Shaw Wetlands Park project (which was named the Strathern Pit project in the SVWMP) would convert a 46-acre property to a multi-benefit stormwater detention, wetlands, and recreation facility that would provide for stormwater detention, water quality treatment, groundwater recharge, and recreation open space for an underserved community. The District is applying for funding for construction of the Rory M. Shaw Wetlands Park project from the State Water Resources Control Board State Revolving Fund. Local funding and other funding sources would be used for construction of the Upper Storm Drain System Phases 2 – 4 project. Both projects are evaluated in this Addendum to provide for a comprehensive understanding of these interrelated projects. The stormwater collected in the Upper Storm Drain System Phases 2 – 4 project would be conveyed to the Rory M. Shaw Wetlands Park project, routed to the detention pond within that site and then to the wetlands within that site for water quality treatment. The stormwater would then be conveyed to existing groundwater infiltration basins within the adjacent Sun Valley Park. Thus, these two projects would work together to alleviate localized flooding, provide water quality treatment, and increase groundwater recharge.

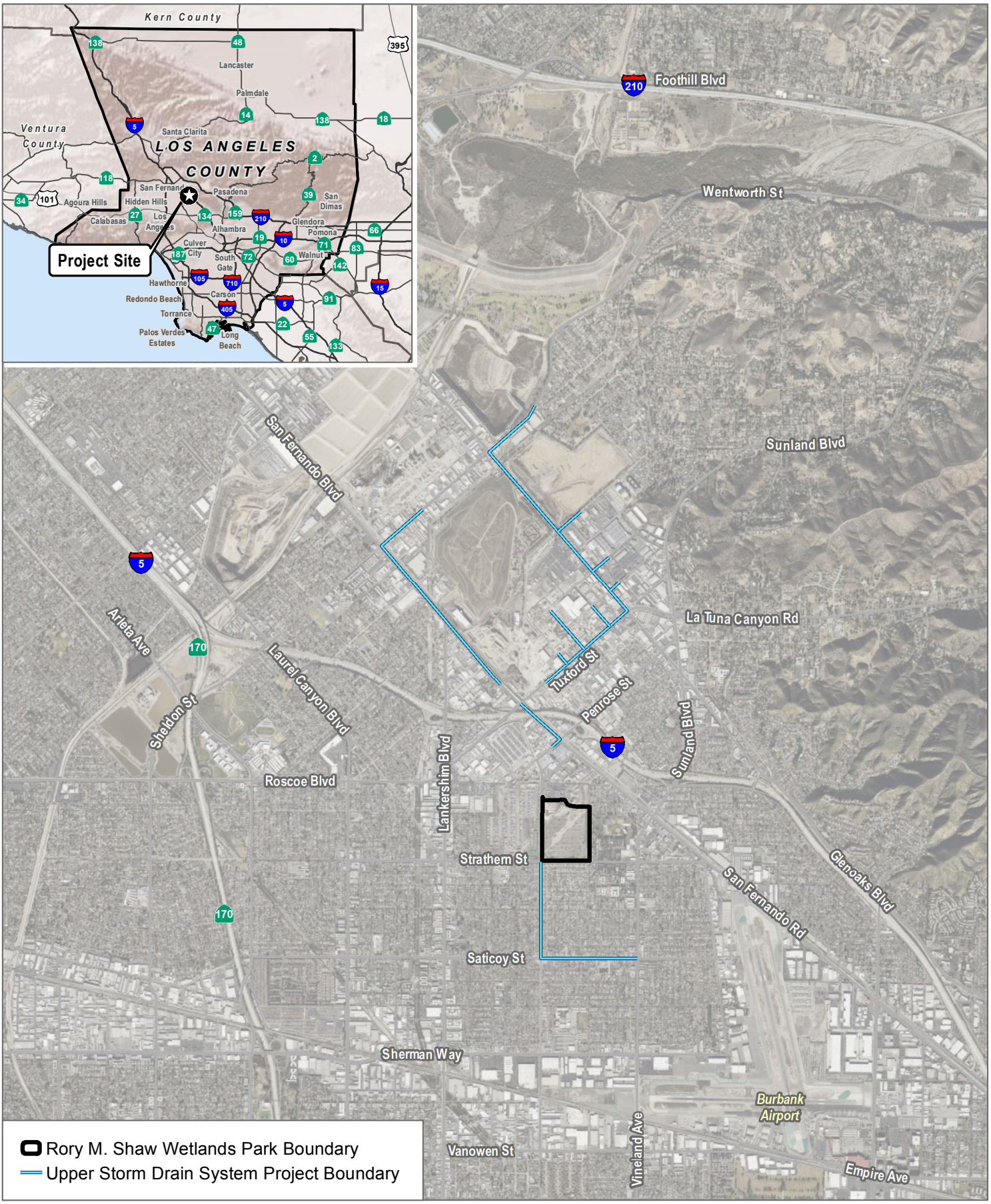
	Rory M. Shaw Wetlands Park
	2004 Approved Wetlands Park Project The 2004 Approved Wetlands Park project as described in the 2004 PEIR proposed to convert an existing 46-acre construction debris landfill located in the northeast corner of Tujunga Avenue and Strathern Street into a stormwater retention and treatment area and park. The primary objective of the 2004 Approved Wetlands Park project was to capture stormwater runoff collected from the upstream industrial drainage area to alleviate flooding in the vicinity of the Tuxford Avenue and San Fernando Road intersection. It was also designed to provide a water conservation benefit through the reuse of stormwater for industrial purposes, or off-site infiltration to the Tujunga Spreading Grounds for groundwater recharge. The 2004 Approved Wetlands Park project would also provide up to 30 acres of green space, including wildlife habitat and park land for the community. Stormwater collection and conveyance to the pit would involve catch basins and storm drains in the surrounding streets. The existing landfill surface was planned to be modified to create terraced side slopes with five levels. The deepest part of the pit would be approximately 50 feet below street level. The bottom portion of the basin was planned to be operated as a wetland designed in alignment with Environmental Protection Agency guidelines for stormwater treatment wetlands. The terraced areas above the wetland would be dry most of the time and would be available for recreational and/or habitat uses. During dry weather periods (May - October), water levels in the wetland would be maintained by repeated circulation. Most of the wetland area would be in shallow ponds. During this recirculation mode, no water would leave the project site. The basin was planned to be lined with impervious material (geotextiles), and no on-site infiltration of stormwater would occur at this site. During large storms, the area above the wetland would store stormwater. Stormwater captured in the basin would be circulated through the wetland, which would be designed to remove some of the pollutants. Stormwater from a 50-year storm (about 500 to 700 acre-feet of stormwater depending on the project alternative as described in the 2004 PEIR) would be fully treated by the wetland over a period of four months. Stormwater would then be transferred off site for infiltration (at the Tujunga Spreading Grounds) or reuse (Vulcan Gravel Processing Plant). The remaining open space at the site could be used for recreational and habitat purposes. The 2004 Approved Wetlands Park project included excavation and grading activities for construction of a park, detention pond and wetlands, storm drains to collect surface water from the streets, a pump station, flood control appurtenances, and recreational facilities such as a restroom and concessions building. 2013 Wetlands Park Approved Project An Addendum to the 2004 PEIR was prepared to evaluate modifications to the 2004 Approved Wetlands Park project and adopted on October 8, 2013. The 2013 Addendum addressed two primary changes: an alternative storm drain alignment that was part of the Storm Drain Project of the SVWMP and a new recycled water line. It also addressed minor changes in the project design, including omitting the terraced design of the detention pond and wetlands, and adding details regarding the recreational amenities. Further, the name of this project was changed from the Strathern Pit project to the Rory M. Shaw Wetlands Park project. The other project components related to the 46-acre park, recreational open space, wetlands, etc. remained the same in the 2013 Approved Wetlands Park project. In 2005, the Los Angeles Department of Water and Power (LADWP), a responsible agency, certified the Integrated Resources PEIR, which

	identified a proposed recycled water line along the same storm drain system. On October 8, 2013, Los Angeles County Flood Control District and LADWP entered into a project partnership agreement for the inclusion of a recycled water line in the design and construction of the storm drain system from Sheldon Street to the project site. The 2004 PEIR did not consider the recycled water line component, and thus, the 2013 Addendum was prepared to refine the scope of the project description to discuss the alternative storm drain alignment and include the recycled water line. The 2004 Approved Wetlands Park project included construction of a 4.5-mile storm drain system that would capture and convey runoff from the 929-acre tributary area and deliver it to the detention pond within the project site. The modifications as described in the 2013 Addendum included a revised route from that evaluated in the 2004 PEIR. Specifically, this revision provided that if the detention pond reached its storage capacity, the outlet from the storm drain to the detention pond would be closed so as to prevent the detention pond from overflowing. Accordingly, the storm drain would be large enough to convey a maximum flow rate of 990 cubic feet per second, and the design capacity of the detention pond was 400 acre-feet. The storm drain was planned to be constructed along Glenoaks Boulevard and Tuxford Street. From the intersection of Tuxford Street and San Fernando Road, the storm drain would connect to Tujunga Avenue at Penrose Street following a revised route from that evaluated in the 2004 PEIR. The modifications also included a 1,200-feet transfer pipeline that would convey the treated runoff from the wetlands to the adjacent Sun Valley Park for groundwater recharge. In addition, the modifications to the approved 2004 Approved Wetlands Park project as analyzed in the 2013 Addendum included a 2.75-mile recycled water line that would connect to an existing recycled water line located at the Los Angeles Department of Water and Power Valley Generating Steam Plant and terminate downstream at the project site to supply the park facilities with Title 22 recycled water for year-round irrigation. As evaluated in the 2013 Addendum, the recycled water line would be constructed within the trench for the storm drain along Glenoaks Boulevard and Tuxford Street. The recycled water line would separate from the storm drain at Tuxford Street at San Fernando Road. The recycled water line would follow an independent alignment along San Fernando Road and Penrose Street and rejoin the trench for the storm drain at Penrose Street and Tujunga Avenue. Alternatively, the 2013 Addendum identified that the storm drain might be constructed along the San Fernando Road and Penrose Street route to Tujunga Avenue as proposed in the 2004 PEIR. The recycled water line would then be entirely within the trench of the storm drain route. Since the 2013 Addendum, Phase 1 of this project, which consists of site investigations and demolition of existing structures on-site, was completed in 2017. Following adoption of the 2013 Addendum, several phases of additional subsurface exploration were conducted as part of the site investigations. These included supplemental soil borings in 2014 and preparation of a geotechnical report in 2019. The Strathern Landfill was closed at the time of various investigations, but the concrete batch plant was in operation and was not made accessible for investigation until 2013. Additionally, the structures that comprised part of the concrete batch plant could not be demolished until Over and Over Ready Mix vacated the project site in 2017. Supplemental soil borings were drilled in 2014, with supplemental drilling occurring in June 2014 (in accordance with 2004 PEIR Mitigation Measure G-1). A subsurface environmental site assessment was prepared to collect geotechnical data and subsurface environmental data from grading along the boundary of the proposed

	detention pond and wetland area. The 2014 subsurface environmental site assessment findings found that the former Newberry Landfill is composed of decomposable waste and occupies the northern portion of the project site. There was a discovery of organic landfill material on-site. As such, construction activities were paused, and none of the stormwater collection systems and recreational components have been constructed. Currently Proposed Rory M. Shaw Wetlands Park The concept for the currently proposed Rory M. Shaw Wetlands Park project was revised based on the findings of the 2014 soil borings and a 2019 geotechnical report prepared for the project site (in accordance with 2004 PEIR Mitigation Measure G-1). The project revisions were necessary to address the findings that excavation along the northern boundary is not considered to be feasible, the detention pond proposed for the west-southwest area of the project site requires use of DDC to protect against settlement over time, the site is not suitable for development without remedial grading, and excavation of inert landfill debris, and the legacy of organic landfill material requires a passive methane system that can be converted into an active system be incorporated into the design. The preliminary site design is presented in Figure 4, Rory M. Shaw Wetlands Park Conceptual Plan and the changes in this currently proposed project are summarized in Table 1. The District's goals for the Rory M. Shaw Wetlands Park project are as follows: • Provide flood control and mitigate flood risks by capturing stormwater runoff collected from the upstream drainage area, which primarily supports industrial land uses, to alleviate flooding in the southern portion of the Sun Valley watershed. • Support local water quality enhancements and reduce stormwater pollution by routing stormwater runoff collected from the industrial area upstream of the site through wetlands to provide natural treatment • Boost the local water supply by conveying treated stormwater to infiltration basins at an adjacent park for groundwater recharge • Provide wildlife habitat • Provide active and passive recreation uses for the Sun Valley community
	Upper Storm Drain System
	2004 Storm Drains Project The Storm Drains Project component of the SVWMP as evaluated in the 2004 PEIR involved constructing storm drains underground within multiple existing roadways, potentially in the vicinity of existing utility lines for water, sewer, gas, oil, and communications. Depending on the segment, adjacent surface land uses include residential, commercial, and/or industrial. As evaluated in the PEIR, the SVWMP anticipated construction of up to 13.6 miles of storm drains depending on the PEIR project alternative chosen, with the Upper Storm Drain System being one component of the overall storm drains project described in the SVWMP and evaluated in the 2004 PEIR. The storm drains were intended to collect stormwater and convey it to other SVWMP components to minimize flooding in the streets and supplement the flood control capacities of other project components (retention facilities) in the southern watershed. The PEIR evaluated four SVWMP project alternatives, each of which included installation of storm drains to collect stormwater from the street surfaces and convey it below the streets

	into the stormwater storage/infiltration facilities identified in the SVWMP. In Alternatives 2 and 4, the storm drains would connect to existing drains located at the southern end of the watershed, which drain to the Los Angeles River. The size and length of the storm drains varied between the four project alternatives evaluated in the 2004 PEIR. Main storm drain lines were expected to range from 30 to 96 inch diameter RCP; lateral drains were expected to range from 24 to 36 inch diameter RCP; RCBs were expected to range in size between 5 feet by 5 feet and 10 feet by 10 feet; and the total length of RCBs was expected to range between 5,400 to 13,350 feet. <u>2013 Approved Project</u> As discussed previously, an Addendum to the 2004 PEIR was prepared for the modifications to the 2004 Approved Wetlands Park project, which included consideration of the Upper Storm Drain System, and was adopted on October 8, 2013. One of the two primary changes evaluated in the 2013 Addendum was an alternative storm drain alignment. The Upper Storm Drain System was evaluated in the 2013 Addendum as a component of the 2013 Approved Wetlands Park project. The 2013 Addendum describes this system as a 4.75-mile storm drain system that would capture and convey runoff from the 929-acre tributary area and deliver it to the detention pond within the 2013 Approved Wetlands Park project. In the 2013 Addendum, the detention pond was anticipated to have a storage capacity of 400 acre-feet. The Upper Storm Drain System evaluated in the 2013 Addendum also included installation of storm drains that would convey stormwater that exceeds the detention pond storage capacity south of the Wetlands Park and into existing storm drain project No. 39, which conveys stormwater further south. The 2013 Addendum identified two potential alignments for the Upper Storm Drain System, one that was evaluated in the 2004 PEIR and an alternative alignment that is 0.4-mile shorter than the alignment evaluated in the 2004 PEIR. In both cases, the storm drains would be routed along Glenoaks Boulevard, Tuxford Street, Penrose Street, San Fernando Road, Tujunga Avenue, and Sherman Way. <u>2020 Approved Project</u> Following adoption of the 2013 Addendum, the Upper Storm Drains component of the SVWMP was further modified, and another Addendum was prepared to evaluate those changes. This second Addendum was adopted in 2020. The 2020 Addendum primarily focused on Phase 1 of the Upper Storm Drain System, but also address Phases 2 – 4. The storm drain system evaluated in the 2020 addendum included approximately 13 miles of RCP beneath roadways to convey runoff into planned stormwater retention facilities and collector storm drains. The system also included construction of catch basins, connector pipes, and other drainage elements. Construction was expected to occur along Tujunga Avenue, Penrose Street, Goss Street, San Fernando Road, Tuxford Street, Glenoaks Boulevard, Sheldon Street, Vineland Avenue, and Saticoy Street. <u>Currently Proposed Upper Storm Drain System Phases 2 –4</u> Phase 1 of the Upper Storm Drain System was completed in 2021, in accordance with the project description updates evaluated in the 2013 and 2020 Addenda. The currently proposed Upper Storm Drain System Phases 2 – 4 project largely retains the same pipeline locations and alignments as the 2020 Approved Upper Storm Drain System project. The

	total storm drain length in Phase 2 has slightly decreased, the tunnel in Phase 3 has slightly decreased, and the construction periods for all three phases have increased. These changes are summarized in Table 2. The length of each storm drain segment is identified in Table 3, and the size of each storm drain segment is identified in Table 4. The District's goals for the proposed Upper Storm Drain System Phases 2 – 4 project are as follows: • Provide flood control and mitigate flood risks by capturing stormwater runoff from individual streets in the upper Sun Valley watershed. • Convey stormwater to the detention pond and wetlands in the planned Rory M. Shaw Wetlands Park to alleviate flooding, provide water quality treatment, and contribute to groundwater recharge. • Convey stormwater to an existing collector storm drain south of the park to provide additional flood control.



SOURCE: Bing Maps, OpenStreetMap

DUDEK

0 1,750 3,500 Feet

FIGURE 1

Project Location

Sun Valley Watershed Rory M. Shaw Wetlands Park and Upper Storm Drain System

SOURCE: Bing Maps, OpenStreetMap

DUDEK

0 150 300 Feet

FIGURE 2

Rory M. Shaw Wetlands Park Project Site and Vicinity

Sun Valley Watershed Rory M. Shaw Wetlands Park and Upper Storm Drain System

SOURCE: Bing Maps, OpenStreetMap

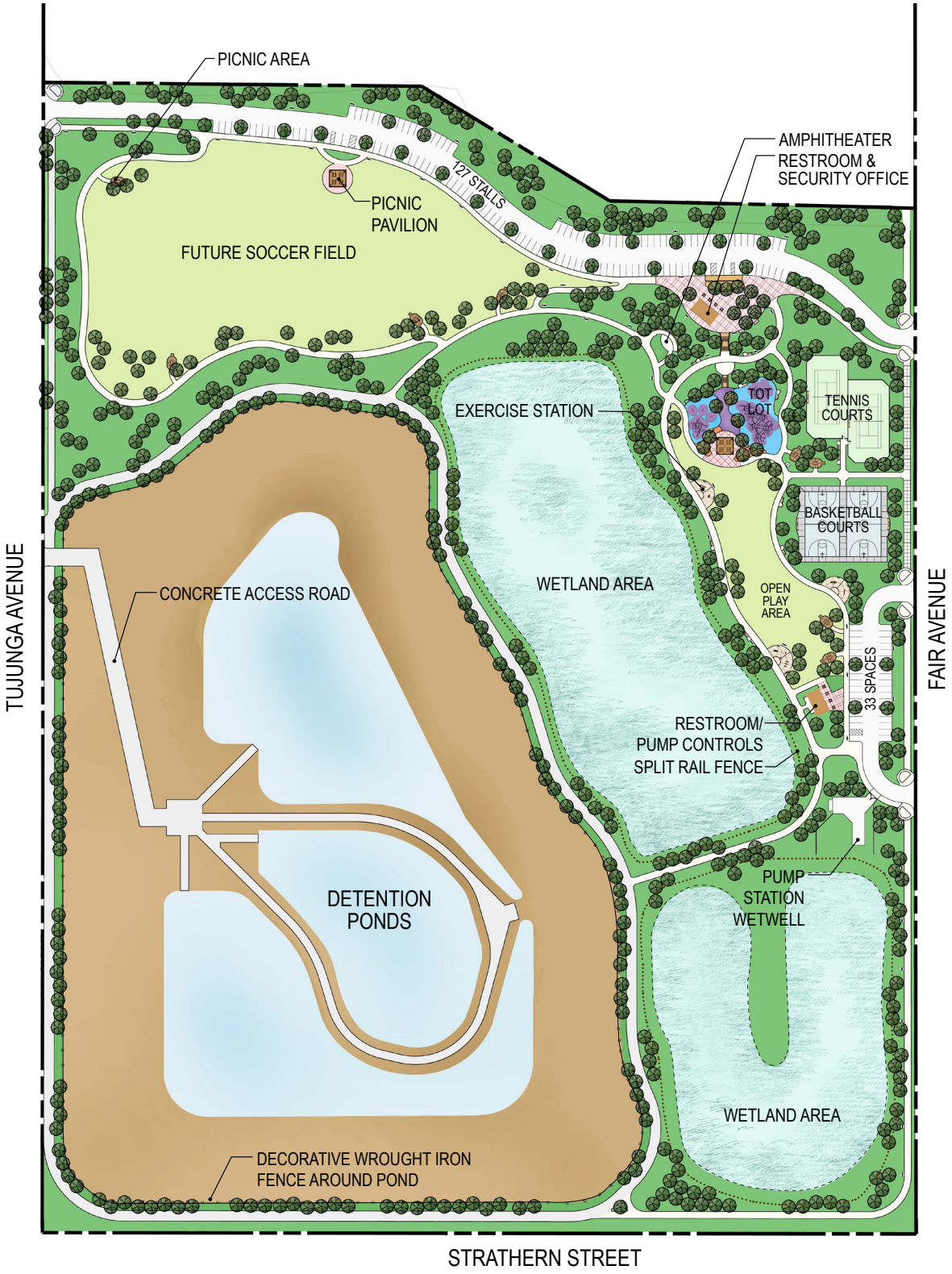
DUDEK

0 1,000 2,000 Feet

FIGURE 3

Upper Storm Drain System Project Site

Sun Valley Watershed Rory M. Shaw Wetlands Park and Upper Storm Drain System



SOURCE: County of Los Angeles 2017

FIGURE 4

Rory M. Shaw Wetlands Park Conceptual Design

Sun Valley Watershed Rory M. Shaw Wetlands Park and Upper Storm Drain System

DUDEK

DATE OF PROJECT APPROVAL:	The original PEIR was certified June 29, 2004. In accordance with Sections 15162 and 15164(b) of State CEQA Guidelines, an Addendum to the 2004 PEIR was prepared to address modifications to the 2004 Approved Wetlands Park project and the Upper Storm Drain System project. That Addendum was adopted on October 8, 2013. The 2013 Addendum found that the changes to both projects were minor and did not result in new significant impacts or an increase in the severity of a previously identified impact, and there was no substantial new information that led to the identification of new or more severe impacts. Therefore, it was determined an Addendum would be the required CEQA document because the changes did not meet any of the requirements under Section 15162 of the State CEQA Guidelines. Additional revisions to the Upper Storm Drain System project were addressed in the 2020 Addendum, adopted on November 10, 2020. The 2020 Addendum found that the changes to this project did not constitute a substantial change or result in new significant impacts or an increase in the severity of a previously identified impact, and that there was no substantial new information that led to the identification of new or more severe impacts. Therefore, it was determined an Addendum would be the required CEQA document because the changes did not meet any of the requirements under Section 15162 of the State CEQA Guidelines.
PUBLIC AGENCY APPROVING PROJECT:	Los Angeles County Flood Control District
BACKGROUND INFORMATION:	The SVWMP is composed of multiple components located throughout the 4.4 square miles area of the Sun Valley Watershed in the communities of the City of Los Angeles, North Hollywood, and Sun Valley. The objectives of the SVWMP are to reduce local flooding, increase water conservation, increase recreational opportunities, increase wildlife habitat, improve water quality, provide additional environmental benefits of energy conservation, air quality improvement and solid waste management, and increase multiple agency cooperation. The Los Angeles County Flood Control District (District) is the Lead Agency for this project under CEQA. The Los Angeles County Board of Supervisors, as the District's governing body, certified the SVWMP Program Environmental Impact Report (referred herein as "2004 PEIR") on June 29, 2004, and adopted the SVWMP. In 2013, an Addendum to the 2004 PEIR was prepared to consider modifications to the 2004 Approved Wetlands Park project, including the Upper Storm Drain System (also referred to as the "2004 Storm Drains project"). The project described in the 2013 Addendum is referred to as the "2013 Approved Storm Drains project." The 2013 Addendum considered refinements to the 2004 Approved Wetlands Park project (which was renamed to the Rory M. Shaw Wetlands Park) and refinements to the Upper Storm Drain System relative to the 2004 Storm Drains project scope. Based on supplemental soil borings in 2014, (taken in accordance with 2004 PEIR Mitigation Measure W-4), geotechnical and subsurface environmental data found that the former Newberry Landfill located at the Rory M. Shaw Wetlands Park project site is composed of decomposable waste and occupies the northern portion of the project site. Moreover, there was a discovery of organic landfill material on-site. As discussed below, the Rory M. Shaw Wetlands Park project required a re-design to address the organic landfill material and construction activities were paused, and none of the stormwater collection systems and recreational components within the Rory M. Shaw Wetlands Park project site have been constructed. A 2019 geotechnical report prepared for Los Angeles County Public Works (in accordance with 2004 PEIR Mitigation Measure G-1) summarized the findings of geotechnical evaluations and environmental assessments beginning in 2009 through August 2019.

	Based on the 2019 geotechnical report, excavation along the northern boundary is not considered to be feasible, the detention pond proposed for the west-southwest area of the project site requires use of DDC to protect against settlement over time, the site is not suitable for development without remedial grading and excavation of inert landfill debris, and the legacy of organic landfill material requires that a passive methane system that can be converted into an active system be incorporated into the design. Thus, the concept for the currently proposed Rory M. Shaw Wetlands Park project was revised. Since the adoption of the 2013 Addendum, modifications to the 2013 Approved Wetlands Park project have been proposed, as described previously. Minor modifications to the Upper Storm Drain System project have also been proposed since certification of the 2004 PEIR. These include minor changes to the storm drain alignments, which involves different road segments than originally anticipated and provides for a small decrease in the total linear feet of storm drain pipelines. Phase 1 of the Upper Storm Drain System project was completed in 2021, in accordance with the project description updates evaluated in the 2013 and 2020 Addenda.
SUPPORTING INFORMATION:	This Addendum to the 2004 PEIR is necessary to address modifications to the 2013 Approved Wetlands Park project and the 2020 Approved Upper Storm Drain System project. An analysis of the project modifications was conducted to assess whether the impacts of the currently proposed projects are consistent with the 2004 PEIR, the 2013 Addendum, and the 2020 Addendum with respect to criteria of the State CEQA Guidelines currently in effect. The analysis of whether the currently proposed projects would result in new environmental impacts or would substantially increase the severity of the impacts identified in the 2004 PEIR is presented here. A detailed Project Description for both projects is presented in Attachment 1. In addition, because the changes in the Rory M. Shaw Wetlands Park project are more substantial than the changes in the Upper Storm Drain System project, a separate memorandum evaluating the impacts associated with the Rory M. Shaw Wetlands Park project was prepared and is included as Attachment 2, The Rory M. Shaw Wetlands Park Project CEQA Consistency Memorandum. Included within Attachment 2 are Appendices A through G: • Appendix A: Air Quality, Greenhouse Gas Emissions, and Energy Technical Memorandum • Appendix B: Biological Resources • Appendix C: Geotechnical, Geologic, and Environmental Assessment • Appendix D: Bird-Aircraft Strike Hazards Report • Appendix E: Noise Technical Memorandum • Appendix F: Trip Generation Analysis, Transportation Consistency Analysis, and VMT Assessment • Appendix G: MMRP for the Sun Valley Watershed Management Plan Because the analysis in Appendix A only addresses the Rory M. Shaw Wetlands Park project and was prepared in 2022, updated modeling of the air pollutant and greenhouse gas emissions from construction of both the Rory M. Shaw Wetlands Park project and the Upper Storm Drain System project was prepared. The modeling data and analysis is presented in Attachment 3.

ANALYSIS:	<u>New Environmental Effects or Substantial Increase in the Severity of Previously Identified Significant Effects (State CEQA Guidelines Section 15162(a)(1))</u> As demonstrated below, the currently proposed projects propose minor changes to the 2004 Approved Project, 2013 Approved Project, and 2020 Approved Project that would not result in new significant impacts, substantial increases in previously identified significant impacts, or the requirement for new mitigation measures or alternatives to be studied. • <u>Aesthetics:</u> **Rory M. Shaw Wetlands Park** The Rory M. Shaw Wetlands Park project site is located in a highly developed urban environment. There are no significant scenic vistas within the project site's vicinity that would have the potential to be obstructed by this project. The 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project considered introduction of recreational features and landscaping, similar to that of the current project design, which would contribute to improve the overall appearance of the area. The 2004 PEIR found that the 2004 Approved Wetlands Park project would have less than significant aesthetics impacts. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the aesthetics analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, aesthetics was not discussed in the 2013 Addendum. The currently proposed Rory M. Shaw Wetlands Park project also incorporates a passive methane system and utilities, which were not previously described as part of the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. These components would consist of design features below the ground surface level and include vertical turbines adjacent to the north and south buildings on site. The currently proposed project would be consistent with applicable design guidelines and requirements necessary for implementation, which would ensure site design would meet specific aesthetic consistency requirements and thereby result in a coordinated design and enhance the overall visual identity of the project site. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in new significant impacts to aesthetics during operations, nor would it result in substantial increases in the severity of impacts as evaluated in the 2004 PEIR and 2013 Addendum. Additionally, this project would be consistent with specific lighting standards, including designs to minimize light pollution, trespass, and illumination from the project site onto surrounding parcels. Such standards would require new lighting to be designed to direct light downward. Therefore, the currently proposed Rory M. Shaw Wetlands Park project would result in limited lighting-related impacts and would be consistent with adjacent urban uses that incorporate general nighttime and security lighting. As such, this project would not result in any new or different impacts from those previously identified in the 2004 PEIR and 2013 Addendum. **Upper Storm Drain System** The Upper Storm Drain System project site includes segments of San Fernando Road, Tuxford Street, Glenoaks Boulevard, Sheldon Street, Vineland Avenue, Tujunga Avenue, and Saticoy Street, all of which are located in a highly developed urban environment. The project location has not changed since adoption of the 2020 Addendum. The currently proposed Upper Storm Drain System project consists of construction of underground storm drain lines and

associated infrastructure. All roadways would be restored to their existing conditions on completion of project construction. No new permanent light sources would be installed. Each of the three phases of this project are located within the project area analyzed in the 2004 PEIR and are not located within the viewshed of a scenic vista. The currently proposed Upper Storm Drain System project would not result in new significant impacts to aesthetics during operations, nor would it result in substantial increases in the severity of impacts. As such, this project would not result in any new or different impacts from those previously identified in the 2004 PEIR, 2013 Addendum, or 2020 Addendum.

- Agriculture and Forestry Resources:

  Rory M. Shaw Wetlands Park

  The currently proposed Rory M. Shaw Wetlands Park project would be constructed in the same location as the previously identified and evaluated 2004 Approved Wetlands Park project. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, this project site is located in an urbanized area and is not occupied by existing agricultural operations. The 2004 PEIR determined that based on past and existing land uses, the project site does not have the capacity to support agricultural operations, does not support an existing Williamson Act contract, does not contain any forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or land zoned for Timberland Production (as defined by Government Code section 51104(g)), and the construction and operation of 2004 Approved Wetlands Park project would not result in the conversion of farmland to a non-agriculture use. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the agricultural resources analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, agricultural resources were not discussed in the 2013 Addendum. The site is zoned Light Industrial and is not located in an area designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the California Department of Conservation (DOC 2024). Additionally, the proposed use under this currently proposed project would not change from the proposed use described as part of the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. The currently proposed Rory M. Shaw Wetlands Park project would not result in any new or different impacts from those previously identified in the 2004 PEIR and 2013 Addendum.

  Upper Storm Drain System

  The Upper Storm Drain System project would be constructed in the same location as was evaluated in the 2004 PEIR, 2013 Addendum, and 2020 Addendum. Construction of the drainage improvements under the currently proposed Upper Storm Drain System project would all take place within the right-of-way of existing roadways, including Tujunga Avenue, Penrose Street, San Fernando Road, Tuxford Street, Glenoaks Boulevard, Sheldon Street, and Saticoy Street, as well as several minor roadways that intersect with Tuxford Street and Glenoaks Boulevard.

  The 2004 PEIR determined that based on past and existing land uses, the project site does not have the capacity to support agricultural operations, does not support an existing Williamson Act contract, does not contain any forest

land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or land zoned for Timberland Production (as defined by Government Code section 51104(g)), and the construction and operation of storm drains would not result in the conversion of farmland to a non-agricultural use. The land adjacent to the project site is zoned for industrial and low-density residential land uses. None of the area within or adjacent to the project site is zoned for agricultural use or designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the California Department of Conservation (DOC 2024). As such, the currently proposed Upper Storm Drain System project would not result in any new or different impacts from those previously identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Air Quality:

  Both currently proposed projects are located in the Los Angeles-South Coast Air Basin. This air basin is designated Nonattainment-Extreme with respect to the federal Clean Air Act standards for ozone, Nonattainment-Serious for the federal Clean Air Act 2006 standard for fine particulate matter ($PM_{2.5}$), Nonattainment-Moderate for the federal Clean Air Act 2012 standard for $PM_{2.5}$, and Maintenance-Serios for the federal Clean Air Act standard for coarse particulate matter (PM_{10}). This air basin is also designated nonattainment for the California Clean Air Act standards for ozone, $PM_{2.5}$, and PM_{10}.

  Rory M. Shaw Wetlands Park

  The 2004 Approved Wetlands Park project did not include the development of housing or employment centers and would not induce population or employment growth. Therefore, the 2004 PEIR determined the 2004 Approved Wetlands Park project would not conflict with or obstruct with the implementation of the Air Quality Management Plan (AQMP). Consistent with the 2004 PEIR, the currently proposed Rory M. Shaw Wetlands Park project does not propose a land use change that is new or different from what was previously planned and approved, nor would it lead to new air quality impacts; thus, it would not have the potential to conflict with the AQMP.

  Construction emissions for the currently proposed Rory M. Shaw Wetlands Park project would not exceed the South Coast Air Quality Management District's (SCAQMD's) daily thresholds except for oxides of nitrogen (NO_X) which was already determined in the 2004 Approved Wetlands Park project. Additionally, as discussed in Attachment 3, the currently proposed Rory M. Shaw Wetlands Park project would result in higher peak daily carbon monoxide (CO) emissions than was estimated in the 2004 PEIR but CO emissions would still not exceed the SCAQMD's daily thresholds. Therefore, construction of this project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity. Once project construction is complete, traffic associated with maintenance and operation would be consistent with that expected under the 2004 PEIR. Specifically, the 2004 PEIR identified maintenance requirements to include sediment removal, landscaping, maintenance of pumps and other equipment/facilities, and inspections. These maintenance activities may require vehicle travel to and from the site by several personnel several times a year, consistent with the assumptions used in the 2004 PEIR. Because the currently proposed Rory M. Shaw Wetlands Park project would not result in any new long-term operational activities, there would

	be no potential air quality impacts associated with operational air pollutant emissions. Similar to the 2004 PEIR, this project would result in construction emissions that would be temporary and well below the SCAQMD thresholds with the implementation of **Mitigation Measures A-1 through A-14** (See Appendix G - Sections 2.1 and 3.1 of Attachment 2, Programmatic Mitigation Monitoring and Reporting Program for the Sun Valley Watershed Management Plan [MMRP]). Since certification of the 2004 PEIR, revisions to SCAQMD Rule 403 and the California Code of Regulations (CCR) (Title 13, CCR, Sections 2449 and 2485) have been made. These changes include updates to the definition of a large operation in Rule 403 from a property containing 100 acres of disturbed surface area to 50 or more acres and changes the daily earthmoving volume from 10,000 cubic yards to 5,000 cubic yards. In addition, the CCR has changed the idling time limits from 10 minutes for all vehicles to 5 minutes for diesel trucks and buses. **Mitigation Measure A-10** references SCAQMD Rule 403, thus, the currently proposed Rory M. Shaw Wetlands Park project would be required to comply with these changes. Similarly, **Mitigation Measure A-11** would align with the new regulation's specifications upon implementation. Overall, these revisions do not change the conclusions regarding the air quality impacts of this currently proposed Rory M. Shaw Wetlands Park project. Since adoption of the 2004 PEIR, SCAQMD has implemented localized significance thresholds (LSTs) that Lead Agencies may apply to their project to evaluate localized impacts to nearby sensitive receptors during construction. As demonstrated in Attachment 3, construction activities for the Rory M. Shaw Wetlands Park project would not exceed SCAQMD daily LSTs for nitrogen dioxide (NO_2), CO, and PM_{10} however, the emissions would exceed the $PM_{2.5}$ site-specific LSTs; therefore, site-specific construction impacts during construction of this project would be potentially significant. However, **Mitigation Measure A-14** from the 2004 PEIR, which applies to this project, requires use of Tier 4 construction equipment for the construction of the Rory M. Shaw Wetlands Park project. With the incorporation of Mitigation Measure A-14, the impacts would be less than significant. The currently proposed Rory M. Shaw Wetlands Park project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity. As described in the 2004 PEIR, surface retention basins and other facilities that have standing water for a period of time may create odors if improperly operated and maintained. The 2004 Approved Wetlands Park project was planned to include permanent pools within a larger detention basin and constructed wetlands on site. These facilities were considered to have low and very low potential for creating odor. The detention pond included in the currently proposed Rory M. Shaw Wetlands Park project would be managed by providing circulation, aeration, etc. as necessary to maintain the aesthetics of the park. Similarly, water in the wetlands would not be stagnant because water would be continuously circulated and aerated using pumps. Odors would be generated from vehicles and/or equipment exhaust emissions during construction of the currently proposed project component. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be considered less than significant. As such, the currently proposed Rory M. Shaw

Wetlands Park project would not result in any new or different impacts from those previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

The 2004 PEIR determined the 2004 Storm Drains project would not conflict with or obstruct with the implementation of the AQMP. The currently proposed Upper Storm Drain System project does not include any housing; construction employment could be reasonably served by the existing population, as such it would not result in population growth and employment that was not accounted for in regional plans, nor would it result in new air quality impacts. Accordingly, it would not conflict with the AQMP.

Air pollutant emissions during construction of the Upper Storm Drain System project would not exceed the SCAQMD's daily thresholds, nor would they exceed the emissions estimates presented in the 2004 PEIR, 2013 Addendum, and 2020 Addendum. Specifically, as shown in the air quality modeling results provided in Attachment 3, construction activities for the Upper Storm Drain System project would not exceed the SCAQMD daily LSTs for NO_2, CO, PM_{10} and $PM_{2.5}$ emissions; therefore, site-specific construction impacts during construction of this project would be less than significant. The currently proposed Upper Storm Drain System project would not lead to new impacts or a substantial increase in the severity of the previously identified significant air quality impacts.

The currently proposed Upper Storm Drain System project would involve the construction of storm drains that would be below ground and not result in operational odors. Odors would be generated from vehicles and/or equipment exhaust emissions during construction of the currently proposed project component. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be considered less than significant. Therefore, the currently proposed Upper Storm Drain System project would not lead to new impacts or a substantial increase in the severity of the previously identified significant impacts.

Combined Projects

The two projects evaluated in this Addendum would have some overlapping phases; however, as demonstrated in Attachment 3, construction of the combined projects would not exceed the previous regional estimates for each project from the 2004 PEIR nor from the 2013 and 2020 Addenda. Construction emissions from the combined projects would not exceed the SCAQMD's daily thresholds except for NOx. However, the 2004 PEIR already discussed that construction of the SVWMP projects would generate NO_X emissions in excess of SCAQMD's daily threshold for NOx. Additionally, the currently proposed projects would result in higher peak daily CO emissions than estimated in the 2004 PEIR but CO emissions would not exceed the SCAQMD's daily thresholds. Therefore, the currently proposed projects would not lead to new impacts or a substantial increase in the severity of the previously identified significant impacts.

Air pollutant emissions during construction of both projects would also not exceed the SCAQMD's site-specific LSTs because Tier 4 equipment would be used pursuant to Mitigation Measure A-14. Accordingly, when construction of the currently proposed Rory M. Shaw Wetlands Park projects overlaps with construction of the currently proposed Upper Storm Drain System project, no new significant impacts would occur and no previously identified significant impacts would substantially increase in severity.

Overlapping construction of the combined projects would result in potential odors from construction equipment and materials; however, those odors would disperse rapidly from each project site and would not occur at a sufficient magnitude to affect a substantial number of people. The wetlands component of the Rory M. Shaw Wetlands Park project would also be properly managed to limit potential odors. As such, the combined projects would not result in odors that would impact a substantial number of people. Therefore, no new significant impacts and no substantial increase in severity of previously identified significant impacts would occur during concurrent construction and operation of the combined projects.

- Biological Resources:

Rory M. Shaw Wetlands Park

As described in the 2013 Addendum, construction of the 2013 Approved Wetlands Park project would result in potentially significant impacts to high value vegetation types and associated wildlife, bird species protected under the Migratory Bird Treaty Act, and sensitive plant species. **Mitigation Measures B-2, B-4, and B-5** (See Appendix G - Sections 1.1 and 2.2 of Attachment 2, MMRP) were identified in the 2004 PEIR to reduce the identified impacts to a level below significant. The remaining impacts related to biological resources were determined to be less than significant and no mitigation was required. The currently proposed Rory M. Shaw Wetlands Park project would not result in new significant impacts to biological resources, nor would it result in substantial increases in the severity of previously identified significant impacts or the need for new mitigation measures.

The 2013 Addendum notes that biological studies of this project site were conducted as required by 2004 PEIR **Mitigation Measure B-2** and no high value native vegetation or habitats, including special status wildlife, wetlands, or riparian vegetation was identified. Under existing conditions, the project site is an undeveloped gravel pit and former landfill. The project site does not support any riparian habitat or sensitive natural communities. Therefore, the currently proposed Rory M. Shaw Wetlands Park project would result in no impacts to riparian habitat and sensitive natural communities. Thus, this project would not cause any new or more severe impacts to riparian habitat or sensitive natural community impacts than was previously identified. The Rory M. Shaw Wetlands Park project would result in the construction of man-made wetlands designed for stormwater and urban runoff treatment. As described in the 2004 PEIR, the proposed man-made wetlands would be designed as free water surface wetlands according to Environmental Protection Agency's guidelines for stormwater treatment. Most of the wetland area would be in shallow ponds and water would be circulated continuously using a small pump to provide a constant flow of water to maintain the wetland vegetation.

	All portions of the project site contain suitable nesting habitat for a variety of avian species. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project requires mitigation of impacts to nesting birds. Migratory nongame native bird species are protected under the federal Migratory Bird Treaty Act (MBTA). Additionally, Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests. In order to avoid impacts on nesting bird species it is recommended that project construction be conducted outside of the recognized nesting bird season (February 15 through September 15). If work cannot be avoided during the nesting bird season, implementation of **Mitigation Measure B-5** (See Appendix G - Section 2.2 of Attachment 2, MMRP) as addressed in the 2004 PEIR and 2013 Addendum would reduce this impact to a less than significant level, and no new mitigation measures would be required. Once operational, the Rory M. Shaw Wetlands Park project would similarly be required to comply with federal and state law regarding nesting birds, such as avoiding maintenance work during the nesting bird season where feasible and conducting nesting bird surveys prior to conducting maintenance work within the nesting season. The District has obtained a Protected Tree Removal Permit from the City of Los Angeles, which specifies a 4:1 on-site replacement for lost trees. The final planting plan for this project will be required to demonstrate compliance with this replacement standard. Two coast live oak trees were removed from the project site during vegetation clearance activities and the removal was monitored by a certified arborist. The currently proposed Rory M. Shaw Wetlands Park project would include removal of remaining trees as well as new trees planted as part of the County's plans to install perimeter fencing and landscaping, which would occur as a separate interim project prior to initiation of Phase 2, as noted previously and addressed in a CEQA Notice of Exemption filed in August 2024. The currently proposed Rory M. Shaw Wetlands Park project would also include planting of approximately 430 new trees and 109,505 new shrubs. Landscaping is proposed throughout the project site and surrounding the detention pond and wetland areas. As recognized in the 2004 PEIR and 2013 Addendum, no habitat conservation plans or natural community conservation plans have been implemented or are planned for the project area, and the project site does not provide "a functional connection between two or more habitat patches that would otherwise be fragmented or isolated from one another" (Los Angeles County Flood Control District 2004). Therefore, this project would have no impacts associated with wildlife movement or conservation plans, consistent with the findings of the 2004 PEIR and 2013 Addendum. **Upper Storm Drain System** The 2004 PEIR indicated that storm drains would be constructed underground within existing paved roadways and would only affect low-value and/or disturbed habitats (i.e., ruderal, developed, and/or non-native grassland), and no tree removal was expected to be necessary for implementation of the Storm Drains component of the SVWMP, Therefore, the Storm Drain component of the SVWMP was not expected to adversely impact biological resources. Consistent with the 2004 PEIR, 2013 Addendum, and 2020 Addendum, the currently proposed Upper Storm Drain System project would involve

construction of storm drains and associated infrastructure below the surface of existing paved roadways, including Tujunga Avenue, Penrose Street, San Fernando Road, Tuxford Street, Glenoaks Boulevard, Sheldon Street, and Saticoy Street, as well as several minor roadways that intersect with Tuxford Street and Glenoaks Boulevard. These roadways and adjacent areas do not support habitat for most sensitive plant and wildlife species. However, similar to the previous discussion of the Rory M. Shaw Wetlands Park project, implementation of the Upper Storm Drain System project could result in disturbance to bird species that are protected under the MBTA and/or Sections 3503, 3503.5, and 3513 of the California Fish and Game Code. Compliance with **Mitigation Measure B-5** (See Appendix G - Section 2.2 of Attachment 2, MMRP) would ensure that impacts on nesting bird species would be avoided or reduced to a less than significant level.

As recognized in the 2004 PEIR and 2013 Addendum, no habitat conservation plans or natural community conservation plans have been implemented or are planned for the project area and the project site does not provide "a functional connection between two or more habitat patches that would otherwise be fragmented or isolated from one another" (Los Angeles County Flood Control District 2004). Therefore, the Upper Storm Drain System project would not result in any impacts associated with wildlife movement or conservation plans, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Cultural Resources:

Rory M. Shaw Wetlands Park

Cultural investigations conducted as part of the 2013 Addendum, in accordance with **Mitigation Measure C-5** (See Appendix G - Section 1.2 of Attachment 2, MMRP) in the 2004 PEIR, identified four structures that were over 50 years old within the project site. The evaluation of the structures concluded that none met the historic eligibility requirements under any of the four California Register Historical Resources criteria and that there were no historic resources present, as defined by CEQA. Those structures were demolished under Phase 1 of this project, which was completed in 2017.

An additional cultural resources investigation was completed in support of this current Addendum. The investigation found that there are no historic resources present within the Rory M. Shaw Wetlands Park project site (Dudek 2024). Thus, construction of phases 2 and 3 would not impact historical resources. No operational impacts to historic resources would occur.

Impacts to archeological resources under this currently proposed project would be similar to those of the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. The cultural resources investigation completed in support of this current Addendum found that there are no archaeological resources present within the Rory M. Shaw Wetlands Park project site (Dudek 2024). Potential ground disturbing activities associated with this project include over excavation of the project site (including inert landfill material), rough grading of the project site, grading of the existing berm and stockpiles, and construction of underground utilities, all of which would occur within previously disturbed areas. As with the 2013 Approved Wetlands Park Project, this project would have a detention pond footprint of approximately 21 acres and a maximum depth of 50 feet. Moreover, the

project would be required to incorporate all applicable geotechnical analysis and requirements as part of construction (in accordance with 2004 PEIR **Mitigation Measure G-1** [See Appendix G - Section 1.3 of Attachment 2, MMRP]). As such, construction of the Rory M. Shaw Wetlands Park would result in excavation and grading activities that could potentially encounter and damage buried archaeological resources or unknown cultural resources. The same mitigation measures provided in the 2004 PEIR would reduce these impacts to below a level of significance (**Mitigation Measures C-2 and C-3** [See Appendix G - Section 3.3 of Attachment 2, MMRP]). The changes in configuration proposed in the aboveground components for the Rory M. Shaw Wetlands Park project would not alter the potential for operational impacts to cultural resources.

Impacts to human remains under this currently proposed project would be similar to those of the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. Potential ground disturbing activities associated with the project include over excavation of the project site, rough grading of the project site, grading of the existing berm and stockpiles, excavation of inert landfill material, and construction of underground utilities. As with the 2013 Approved Wetlands Park project, there is a potential for human remains to be encountered during implementation of this currently proposed project. The same mitigation measure provided in the 2004 PEIR would reduce these impacts to below a level of significance (**Mitigation Measure C-4** [See Appendix G - Section 3.3 of Attachment 2, MMRP]). In conclusion, the Rory M. Shaw Wetlands Park project would not result in any new or different impacts from those previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

The 2004 PEIR found that the 2004 Storm Drains project would not result in adverse effects to cultural resources. Similarly, the cultural resources investigations conducted as part of the 2013 Addendum found no historic or archaeological resources within the Upper Storm Drain System project site. However, the cultural resources investigation completed in support of this current Addendum found that San Fernando Road had been identified as a historic resource under an evaluation conducted for an unrelated project in 2012. This road was found to be historic because it served as a major transportation and trade route prior to the construction of Interstate-5 and was instrumental in the development of the City of Los Angeles and San Fernando Valley. Implementation of the currently proposed Upper Storm Drain System project would include construction of a storm drain within a 0.95-mile segment of San Fernando Road. The project would not alter the alignment of the road and the road would be returned to its pre-construction condition. Thus, the project would not affect the resource's integrity, nor would it result in a substantial adverse change in the significance of the resource (Dudek 2024).

The cultural resources investigation completed in support of this current Addendum found that there are no archaeological resources present within the Upper Storm Drain System project site (Dudek 2024). Impacts to archeological resources under this currently proposed project would be similar to those of the 2004 Storm Drains project, 2013 Approved Storm Drains project, and 2020 Approved Upper Storm Drain System project. Ground disturbing activities associated with this project include pavement removal, trenching, and construction of underground utilities, all of which would occur within existing

paved roads. During project implementation, buried archaeological resources or unknown cultural resources could be encountered and/or damaged during these ground disturbing activities. The same mitigation measure provided in the 2004 PEIR would reduce this impact to below a level of significance (**Mitigation Measure C-3** [See Appendix G - Section 3.3 of Attachment 2, MMRP]). The minor reductions in the length of the storm drain lines and tunnel compared to the 2020 Approved Upper Storm Drain System project would slightly lessen the extent of trenching needed to construct this currently proposed project, thus there would be a slight reduction in the potential for archaeological resources or unknown cultural resources to be encountered. The Upper Storm Drain System project would have no potential to adversely affect archaeological resources or other cultural resources during operation because all roads would be returned to their existing conditions and no further ground disturbing activities would occur.

Impacts to human remains under this currently proposed project would also be similar to those of the 2004 Storm Drains project, 2013 Approved Storm Drain project, and 2020 Approved Upper Storm Drain System project. Human remains could be encountered during the ground disturbing activities associated with this project, which include pavement removal, trenching, and construction of underground utilities. The same mitigation measure provided in the 2004 PEIR would reduce these impacts to below a level of significance (**Mitigation Measure C-4** [See Appendix G - Section 3.3 of Attachment 2, MMRP]). The minor reductions in the length of the storm drain lines and tunnel compared to the 2020 Approved Upper Storm Drain System project would slightly lessen the extent of trenching needed to construct this currently proposed project, thus there would be a slight reduction in the potential for archaeological resources or unknown cultural resources to be encountered. The Upper Storm Drain System project would have no potential to adversely affect human remains during operation because all roads would be returned to their existing conditions and no further ground disturbing activities would occur.

In conclusion, the Upper Storm Drain System project would not result in any new or different impacts from those previously identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Energy:

Rory M. Shaw Wetlands Park

Since certification of the 2004 PEIR and the 2013 Addendum, updates have been made to the State CEQA Guidelines. The revised State CEQA Guidelines added a new impact category "Energy" to Appendix G by incorporating the changes to Section 15126.2(b). As such, energy was not addressed in the 2004 PEIR or the 2013 Addendum.

The electricity used for construction activities would be temporary and minimal; therefore, construction of the Rory M. Shaw Wetlands Park project would not result in wasteful, inefficient, or unnecessary consumption of electricity. Impacts would be less than significant. Project operation would require electricity for the 15 acres of park space and ancillary electronic equipment, pump station associated with the wetland and detention pond and necessary lighting. The increase in electricity demand at the project site would be negligible relative to the electricity use in LADWP's service area. Therefore, the

	project's electricity consumption would not be considered inefficient or wasteful, and impacts would be less than significant. Natural gas is not anticipated to be required during construction or operation, and impacts would be less than significant. Petroleum would be consumed throughout construction. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction. Transportation of construction materials and construction workers would also result in petroleum consumption. Heavy-duty construction equipment, vendor trucks, and haul trucks would use diesel fuel. Construction contractors for the Rory M. Shaw Wetlands Park project would be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; (3) restricts the addition of older vehicles into fleets starting on January 1, 2014; and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The District and/or construction contractor must either show that its fleet average index was less than or equal to the calculated fleet average target rate or that the fleet has met the Best Achievable Control Technology requirements. Construction workers would likely travel to and from the project area in gasoline-powered vehicles. Overall, the project would not be unusual as compared to overall local and regional demand for energy resources and would not involve characteristics that require equipment that would be less energy efficient than at comparable construction sites in the region or state. Therefore, because petroleum use during construction would be temporary and would not be wasteful or inefficient, impacts would be less than significant. During operations, most of the fuel consumption resulting from the proposed Rory M. Shaw Wetlands Park project would involve the use of motor vehicles traveling to and from the project site for periodic maintenance and to use the recreation facilities. Petroleum fuel consumption associated with motor vehicles traveling to and from the project site is a function of the vehicle miles traveled because of project operation. As compared to the petroleum consumption in Los Angeles County per year, this currently proposed project would not result in wasteful, inefficient, or unnecessary consumption of petroleum, and impacts would be less than significant. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, this currently proposed project would be subject to and would comply with, at a minimum, the California Building Energy Efficiency Standards (24 CCR, Part 6). Part 6 of Title 24 establishes energy efficiency standards for residential and non-residential buildings constructed in California in order to reduce energy demand and consumption. The proposed Rory M. Shaw Wetlands Park project would not conflict with the various local plans that would reduce energy use, including the County's Community Climate Action Plan. Therefore, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

	Upper Storm Drain System As noted previously, energy was not addressed in the 2004 PEIR, 2013 Addendum, or 2020 Addendum. The electricity used for construction of the proposed Upper Storm Drain System project would be temporary and minimal; therefore, construction would not result in wasteful, inefficient, or unnecessary consumption of electricity. Impacts would be less than significant. Project operation would not require electricity. Therefore, electricity consumption of this project would not be considered inefficient or wasteful, and impacts would be less than significant. Natural gas is not anticipated to be required during construction or operation, and impacts would be less than significant. Petroleum would be consumed throughout construction. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction. Transportation of construction materials and construction workers would also result in petroleum consumption. Heavy-duty construction equipment, vendor trucks, and haul trucks would use diesel fuel. Construction contractors for this project would be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation, as discussed in the Rory M. Shaw Wetlands Park analysis presented above. Construction workers would likely travel to and from the project area in gasoline-powered vehicles. Overall, the project would not be unusual as compared to overall local and regional demand for energy resources and would not involve characteristics that require equipment that would be less energy efficient than at comparable construction sites in the region or state. Therefore, because petroleum use during construction would be temporary and would not be wasteful or inefficient, impacts would be less than significant. During operations, fuel consumption resulting from the proposed Upper Storm Drain System project would involve the use of motor vehicles traveling to and from the project site for periodic maintenance. Petroleum fuel consumption associated with motor vehicles traveling to and from the project site is a function of the vehicle miles traveled during project operation. As compared to the petroleum consumption in Los Angeles County per year, this project would not result in wasteful, inefficient, or unnecessary consumption of petroleum, and impacts would be less than significant. The Upper Storm Drain System does not include construction of new structures that would have ongoing energy demands. This project would not conflict with the various local plans that would reduce energy use, including the County's Community Climate Action Plan. Therefore, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. In conclusion, the currently proposed Upper Storm Drain System project would not result in any new or different impacts from those previously identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum. • <u>Geology and Soils:</u> **Rory M. Shaw Wetlands Park** The 2004 PEIR determined that no active or potentially active faults are known to pass directly beneath the Rory M. Shaw Wetlands Park project site and the

	site is not located within an Alquist-Priolo Fault Zone. However, the project site is located in the seismically active Southern California region and could be subject to moderate to strong ground motion in the event of an earthquake on one of the many active faults in Southern California. The 2004 PEIR found that the 2004 Approved Wetlands Park project would not involve construction of habitable structures and would not result in any change in seismic risk at the project site. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the geology and soils analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, this topic was not discussed in the 2013 Addendum. The currently proposed Rory M. Shaw Wetlands Park project does not involve changes in the location of the project or the land use of the project site and it would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault. As explained in the 2004 PEIR, the 2004 Approved Wetlands Park project would result in less than significant impacts related to seismic ground shaking, surface fault rupture, liquefaction, expansive soils, and subsidence. Implementation of mitigation measures would be required for impacts related to landslides/slope-instability and soil erosion. The 2013 Addendum determined that the project revisions evaluated at that time would result in no changes to the impacts identified in the 2004 PEIR. Therefore, impacts related to the 2013 Approved Wetlands Park project were determined to be less than significant with implementation of mitigation measures (2004 PEIR **Mitigation Measure G-1** [See Appendix G - Section 1.3 of Attachment 2, MMRP]). As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, construction best management practices would continue to apply to the Rory M. Shaw Wetlands Park project and would minimize the potential for adverse effects related to soil erosion and water quality during construction. Specific control measures identified in **Mitigation Measure W-1** (See Appendix G - Sections 2.3 and 3.5 of Attachment 2, MMRP) of the 2004 PEIR would also apply to this currently proposed project, including implementation of a stormwater pollution prevention plan (SWPPP) as required in compliance with the National Pollution Discharge and Elimination System (NPDES) program. Design and operation of the currently proposed Rory M. Shaw Wetlands Park project would be subject to the same or similar drainage standards that were identified for the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. Similar to the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, this currently proposed project would reduce soil erosion potential on the project site by increasing the vegetative cover and modifying the site topography to retain runoff onsite. Therefore, impacts would remain less than significant, with mitigation incorporated. Based on the analysis within the 2019 geotechnical report (See Attachment 2, Appendix C), any potential risk of seismically induced landslides and liquefaction would be substantially mitigated with implementation of the Rory M. Shaw Wetlands Park project. Further, this currently proposed project would comply with applicable provisions of the California Building Code, thus minimizing the potential for damage to structures on the site related to unstable or expansive soils.

	The project site does not currently support septic tank systems and no use of alternative wastewater disposal systems is proposed. Thus, the Rory M. Shaw Wetlands Park project would have no impact associated with such systems. Potential ground disturbing activities associated with this project include over excavation of the project site (including inert landfill material), rough grading of the project site, grading of the existing berm and stockpiles, DDC activities over the detention pond footprint, and construction of underground utilities. As with the 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project would have a detention pond footprint of approximately 21 acres and a maximum depth of 50 feet. The utilities would be constructed within previously disturbed areas. Due to the level of previous development and disturbance that has occurred on the project site, the potential for encountering paleontological resources during project construction is considered low. Therefore, this project would have a less than significant impact on paleontological resources. In conclusion, the Rory M. Shaw Wetlands Park project would not result in any new or different impacts related to geology and soils compared to those previously identified in the 2004 PEIR and 2013 Addendum. Upper Storm Drain System The 2004 PEIR found that the 2004 Storm Drains project would have no impacts or less than significant impact with respect to geology, soils, and seismicity. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the geology and soils analysis in the 2004 PEIR were necessary for the 2013 Approved Storm Drain project, and thus, this topic was not discussed in the 2013 Addendum. Similarly, the 2020 Addendum found that no changes to the geology and soils analysis in the 2004 PEIR were necessary for the 2020 Upper Storm Drain System project. The currently proposed Upper Storm Drain System project involves the installation of a storm drain system under existing paved public streets. The 2004 PEIR determined that no active or potentially active faults are known to pass directly beneath the project site and the site is not located within an Alquist-Priolo Fault Zone. However, the project site is located in the seismically active Southern California region and could be subject to moderate to strong ground motion in the event of an earthquake on one of the many active faults in Southern California. The 2004 PEIR found that the 2004 Approved Storm Drains project would not involve construction of habitable structures and would not result in any change in seismic risk at the project site. The currently proposed Upper Storm Drain System project does not involve changes in the location or design of the project, thus, this project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury or death involving the rupture of a known earthquake fault. The 2004 PEIR found that the 2004 Approved Storm Drains project would result in less than significant impacts related to seismic ground shaking, surface fault rupture, landslides/slope-instability, liquefaction, expansive soils, and subsidence. The 2004 PEIR acknowledged that storm drain infrastructure could become damaged during a seismic event and that “failure of storm drains and underground tanks could result in release of water to the immediate

vicinity, but would not create dangerous conditions to nearby residences since the structures are buried" (Los Angeles County Flood Control District 2004).

The 2004 PEIR found that soil disturbance during project construction would increase the potential for wind and water erosion and that these impacts would be controlled with the development and implementation of a SWPPP in compliance with the NPDES program, as required under **Mitigation Measure W-1** (See Appendix G - Sections 2.3 and 3.5 of Attachment 2, MMRP). Design and operation of the currently proposed Upper Storm Drain System project would be subject to the same or similar drainage standards that were identified for the 2004 Approved Storm Drains project, 2013 Approved Storm Drains project, and 2020 Approved Upper Storm Drain System project.

Potential ground disturbing activities associated with the proposed Upper Storm Drain System project include pavement removal and trenching. Trench depth would vary with the size of the storm drain RCP needed in each particular location. The maximum trench depth is expected to be approximately 30 feet. The 2004 PEIR found that the potential for encountering paleontological resources during project construction is considered low due to the level of previous development and disturbance that has occurred on the project site and the geology of the area. This currently proposed project does not alter the location of the project, and no new information has been developed since preparation of the 2004 PEIR that indicates a higher level of paleontological sensitivity in the project area. Therefore, the currently proposed Upper Storm Drain System project would have a less than significant impact on paleontological resources.

In conclusion, the Upper Storm Drain System project would not result in any new or different impacts related to geology and soils compared to those previously identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Greenhouse Gas Emissions:

Rory M. Shaw Wetlands Park

At the time the 2004 PEIR was certified, there was no legislation or regulatory guidance with respect to CEQA analysis of greenhouse gases (GHG) and climate change. The passage of Assembly Bill (AB) 32 on September 27, 2006, the adoption of the California Air Resources Board's (CARB) implementing Climate Change Scoping Plan (CARB's Scoping Plan) in December 2008, and the adoption of State CEQA Guidelines specific to GHG analysis all occurred subsequent to certification of the 2004 PEIR. Therefore, the 2004 PEIR did not evaluate the impacts of the 2004 Strathern Pit Project on greenhouse gas emissions because the State CEQA Guidelines did not require analysis of project impacts related to global climate change. The 2013 Addendum conducted a quantitative analysis to model project greenhouse gas emissions and determined they would not exceed SCAQMD's 2008 interim significance threshold.

Construction of the currently proposed Rory M. Shaw Wetlands Park project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor and haul trucks, and worker vehicles. As with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities

would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

The 2004 PEIR identified that maintenance requirements of the 2004 Strathern Pit Project would include sediment removal from retention facilities, separation systems, and catch basins, landscaping, maintenance of equipment such as pumps, and inspections. Each of these maintenance activities would require several personnel several times a year at the Rory M. Shaw Wetlands Park site, requiring minor vehicle and employee travel. Sediment removal from retention basins may require minor earthwork. These activities would result in minor vehicle and equipment GHG emissions. As previously mentioned, GHG impacts were not addressed in the 2004 PEIR and the 2013 Addendum's analysis found GHG impacts to be less than significant. Operational activities associated with the currently proposed Rory M. Shaw Wetlands Park project would occur in a similar scale and intensity to what was previously analyzed in the 2013 Addendum.

GHG emissions from maintenance and operation of the Rory M. Shaw Wetlands Park project would remain below the SCAQMD's interim GHG threshold, as shown in Attachment 3. As such, GHG impacts would remain less than significant for this project.

The Rory M. Shaw Wetlands Park project would not conflict with the County's Climate Action Plan strategies for achieving the GHG targets for 2030, 2035, and 2045. The County's Climate Action Plan is also in alignment with the State's 2022 Scoping Plan. The project would not conflict with the Connect SoCal 2024 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) or with other applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs. As such, impacts would remain less than significant. In conclusion, the currently proposed Rory M. Shaw Wetlands Park project would not result in any new or different impacts from those previously identified in the 2013 Addendum.

Upper Storm Drain System

As noted previously, GHG was not addressed in the 2004 PEIR, while the quantitative analysis in the 2013 Addendum demonstrated that the GHG emissions from implementation of the 2013 Approved Storm Drains project would not exceed SCAQMD's 2008 interim GHG significance threshold. The 2020 Addendum for the Upper Storm Drain System included additional GHG emissions modeling and analysis. At the time the 2020 Addendum was prepared, no project-level numerical significance thresholds for GHG emissions that would be applicable to the project had yet been adopted, however at that time, SCAQMD recommended a threshold of 3,000 MT CO2e per year for all land use projects. The 2020 Addendum evaluated whether the Upper Storm Drain System would exceed that threshold, and whether it would conflict with plans, policies, and regulations intended to reduce GHG emissions. Specifically, the 2020 Addendum considered this project's consistency with Executive Orders S-3-05 and B-30-15, AB 32 Scoping Plan, and the Southern California Association of Governments SCS.

The 2020 Addendum identified the annual GHG emissions during construction of each of the four phases of the Upper Storm Drain System, as determined by CalEEMod modeling, and amortized those emissions over the lifetime of the project, which was anticipated to be 30 years. The 2020 Addendum found the

construction GHG emissions to be approximately 39.57 tons of CO2e per year, and that project operations would consist of periodic maintenance, which would not result in daily GHG emissions. The 2020 Addendum concluded that this project would not exceed SCAQMD's recommended GHG emissions threshold.

The 2020 Addendum also found that given the limited activity involved in project operation for periodic maintenance, this project would not generate significant long-term GHG emissions, would not contribute cumulatively to impacts associated with GHG emissions, and would not conflict with any applicable plans, policies, or regulations intended to reduce GHG emissions.

As demonstrated in Attachment 3, GHG emissions during construction of the currently proposed Upper Storm Drain System project would remain below the SCAQMD's interim GHG threshold. As such, GHG impacts would remain less than significant for this currently proposed project. Similar to the Rory M. Shaw Wetlands Park, the Upper Storm Drain System project would also not conflict with applicable GHG reduction plans. The currently proposed Upper Storm Drain System project would not result in any new or different impacts from those previously identified in the 2013 Addendum or 2020 Addendum.

Combined Projects

The GHG emissions from construction of both of the currently proposed projects would fall below the SCAQMD's interim GHG thresholds. Emissions from construction and operation of both projects would not conflict with the County's Climate Action Plan which is in alignment with the State's Scoping Plan. The combined projects would also not conflict with the Connect SoCal 2024 RTP/SCS. The combined projects would not generate GHG emissions that would be significant and would not conflict with an applicable GHG reduction plan. As such, impacts from overlapping construction and operation of the Rory M. Shaw Wetlands Park project and the Upper Storm Drain System project would remain less than significant and the combined projects would not result in any new or different GHG impacts from those previously identified in the 2013 Addendum and 2020 Addendum.

- Hazards and Hazardous Materials:

Rory M. Shaw Wetlands Park

The 2004 PEIR found that the 2004 Approved Wetlands Park project site was not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and therefore would not create a significant hazard to the public or the environment from construction and/or operation of a project on a known hazardous material site as defined in Government Code Section 65962.5. The currently proposed Rory M. Shaw Wetlands Park project does not involve changes in the location of the project and there is no new information showing that the project site is a hazardous material site as defined in Government Code Section 65962.5 (DTSC 2024, SWRCB 2024). Thus, this project would result in no impacts associated with development and use of a hazardous material site as defined in Government Code Section 65962.5, consistent with the findings of the 2004 PEIR and 2013 Addendum.

	The 2004 PEIR found that there was no known soil contamination at the 2004 Approved Wetlands Park project site, but that the highly urbanized setting and presence of industrial land uses indicated there was potential for contaminated soils to be present. If contaminated soils are encountered during project construction, implementation of **Mitigation Measure H-1** (See Appendix G - Section 3.4 of Attachment 2, MMRP) would be required to ensure contaminated soils are disposed of in compliance with applicable regulations. The new components of the currently proposed Rory M. Shaw Wetlands Park project include the installation of a passive methane system and the use of DDC methods over the detention pond footprint. The Geotechnical, Geologic, and Environmental Assessments (Attachment 2, Appendix C) determined that due to the methane concentrations at the project site, a passive methane system conforming with the standards of the City of Los Angeles Ordinance No. 175790 would be installed, which has now been included as part of the currently proposed Rory M. Shaw Wetlands Park project. The passive methane system would also be designed and engineered to mitigate potential intrusion of volatile organic compounds in accordance with Division 71 of Article 1, Chapter IX of the Los Angeles Municipal Code (LAMC). Conformance with the LAMC would ensure that installation and operation of the passive methane system would not create hazardous conditions to which users of the park or people residing or working in the vicinity would be exposed. DDC does not involve the use of any hazardous materials that are not already commonly used in construction projects. Thus, these new project components would not cause any new impacts or increase the severity of impacts that were identified in the 2004 PEIR or 2013 Addendum. The 2004 PEIR found that project operation would require stormwater disinfection, periodic removal and disposal of sediments from stormwater facilities, and herbicide use for landscaped areas. The operational analysis presented for hazards and hazardous materials in the 2004 PEIR would still apply to the currently proposed Rory M. Shaw Wetlands Park project because the proposed changes in configuration of the aboveground components would not alter the operational activities or the types of potentially hazardous materials that are required for operation. The proposed passive methane system would be operated consistent with LAMC to ensure that vapor intrusion would not represent a material environmental concern to future users of the site. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, operation of the currently proposed Rory M. Shaw Wetlands Park project would involve very little transport, storage, use, or disposal of hazardous materials associated with janitorial, maintenance, and repair activities (i.e., commercial cleaners, lubricants, or paints). Use of these materials would be limited, and transport, storage, use, and disposal of these materials would be subject to applicable federal, state, and local health and safety requirements. Impacts would, therefore, remain less than significant. Furthermore, compliance with existing regulations would ensure any potential of significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment would be less than significant. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the Rory M. Shaw Wetlands Park would include surface water features that have the potential to attract wildlife. The surface water features of this currently proposed project are not substantially different from those included in the 2004 Approved Wetlands Park project and 2013

	Approved Wetlands Park project. Further, since the proposed facility is less than one mile of the Hollywood Burbank Airport and 3 miles away from Whiteman Airport, **Mitigation Measure H-2** (See Appendix G - Section 1.4 of Attachment 2, MMRP) is required as part of this currently proposed project to reduce impacts in accordance with Federal Aviation Administration (FAA) recommendations. Given the greater distance of the project site from Whiteman Airport (approximately 3 miles) and the lower flight activity, changes in abundance or movement patterns of bird species resulting from the currently proposed Rory M. Shaw Wetlands Park project are of less concern at Whiteman Airport than at Hollywood Burbank Airport. A Bird-Aircraft Strike Hazards Report (See Attachment 2, Appendix D) was prepared to discuss the potential hazards to aircraft by this currently proposed project. The bird airstrike hazard at Hollywood Burbank Airport was analyzed both by attractants on the airfield and by attractants at off-airport locations in the vicinity (within 5 miles of both the airport and the project site). The currently proposed Rory M. Shaw Wetlands Park project could potentially affect bird aircraft strike risk for aircraft using Hollywood Burbank Airport by (1) increasing the abundance and/or diversity of bird species in the vicinity of the airport that pose a strike hazard to aircraft; and (2) by creating an attractant that induces existing or new birds to cross aircraft approach and departure paths to access or leave the project site. It is unlikely that the Rory M. Shaw Wetlands Park project would substantially increase diversity of bird species in the vicinity of Hollywood Burbank Airport. Existing conditions have not resulted in documented strikes on aircraft over the 30-year period from 1990 to 2019. Moreover, this project would likely result in human use and disturbance of the project site throughout the year. This human presence and activity would further limit the attractiveness of the project site to large numbers of birds. In summary, the currently proposed Rory M. Shaw Wetlands Park project is not expected to substantially increase the likelihood that birds would collide with aircraft or would cross approach or departure paths of aircraft using Hollywood Burbank Airport (See Attachment 2, Appendix D). The lack of bird-attracting features providing different habitat south and east of the project site, combined with the dominant approach and departure paths at Hollywood Burbank Airport that provide extensive separation from the project site, among other evidence provided in Appendix D, support this conclusion. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in new significant environmental effects or a substantial increase in the severity of a previously identified significant effect relative to hazards and hazardous materials. No new mitigation is required. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the Rory M. Shaw Wetlands Park project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The 2004 PEIR determined lane and/or road closures may be necessary for installation of project facilities. Restricted access to the vicinity of project sites would be addressed by advanced notification of local emergency service providers. The currently proposed project does not involve long-term or substantial changes in access to any property and would not contribute to a significant increase in the potential for hazards within the area. The project site is not located in a state responsibility area or in a state-designated fire hazard severity zone. As such, the project site is not expected to be susceptible to wildfires and is not located within or near a wildfire hazard area or a state responsibility area.

In conclusion, the currently proposed Rory M. Shaw Wetlands Park project would not result in any new or different impacts associated with hazards and hazardous materials compared to those previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

Similar to the Rory M. Shaw Wetlands Park project, the 2004 PEIR and 2013 Addendum found that no portion of the Upper Storm Drain System project site is known to contain contaminated soils or be included on a list of hazardous material sites as defined in Government Code Section 65962.5. The currently proposed Upper Storm Drain System project does not involve changes in the location of the project and there is no new information showing that this project would intersect with a hazardous material site as defined in Government Code Section 65962.5 (DTSC 2024, SWRCB 2024); thus this project would not result in impacts associated with development at such a site. The 2020 Addendum discussed two sites identified as a hazardous material sites under Government Code Section 65962.5. Those sites are each more than 0.25-miles away from the road segments under which the Upper Storm Drain System would be installed, thus this project would not be affected by those known hazardous materials sites and would not disturb any of the hazardous materials present at those sites.

The 2004 PEIR found that there was no known soil contamination at any of the road segments included in the Upper Storm Drain System, but that there was potential for contaminated soils to be present given the highly urbanized setting and presence of industrial land uses. Similarly, the 2020 Addendum found that the surrounding industrial land uses, the soil of former landfills and potentially hazardous waste from nearby facilities pose a potential impact to the Upper Storm Drain System project. If contaminated soils are encountered during project construction, **Mitigation Measure H-1** (See Appendix G - Sections 1.4 and 3.4 of Attachment 2, MMRP) requires that such soils must be removed and disposed of in compliance with applicable regulations. Therefore, impacts would be less than significant, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

Operation of the currently proposed Upper Storm Drain System project would be the same as was assumed for the Storm Drains project in the 2004 PEIR, and as evaluated for the Upper Storm Drain System in the 2013 Addendum and 2020 Addendum. The currently proposed project differs from the project evaluated in the 2020 Addendum only due to an extension of the construction schedule and a slight decrease in the linear feet of storm drains to be installed. Consistent with the findings of the 2020 Addendum, project operation would include periodic removal and disposal of sediments from catch basins, management of stormwater facilities to avoid creating mosquito-breeding conditions, and potential herbicide use for landscaped areas. The 2004 PEIR found that impacts associated with periodic removal and disposal of sediments and herbicide use would be less than significant and no mitigation was required. The changes in the storm drain project since certification of the 2004 PEIR would not alter these operational characteristics and impacts would remain less than significant.

With respect to potential mosquito breeding and associated public health impacts such as West Nile Virus, **Mitigation Measure H-3** (See Appendix G - Sections 1.4 and 3.4 of Attachment 2, MMRP) from the 2004 PEIR requires

the District to coordinate with the Greater Los Angeles Vector Control District in identifying and implementing appropriate measures to ensure this potential impact is reduced to a less-than-significant level.

In conclusion, the currently proposed Upper Storm Drain System project would not result in any new or different impacts related to hazards and hazardous materials compared to those previously identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Hydrology and Water Quality:

Rory M. Shaw Wetlands Park

The project site for the currently proposed Rory M. Shaw Wetlands Park project remains the same as the project site identified for the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project; as such, the same hydrologic conditions that were analyzed and discussed in the 2004 PEIR and 2013 Addendum would apply to this project. Relative to the 2013 Approved Wetlands Park project, the new and revised components of this project include DDC activities over the detention pond and wetlands footprints; the hauling of excess materials to existing offsite disposal facilities; addition of a passive methane treatment system; on-site crushing activities; and relocating the 10 acres of created wetlands from the northern and western portion of the site to the east side of the site. Additionally, the recycled water line component identified in the 2013 Addendum has been omitted from this currently proposed project, and the storm drain component evaluated in the 2013 Addendum is addressed in this addendum as a separate project. DDC activities are required to achieve sufficient compaction to minimize chances of differential settlement on the site and ensure that water from the detention pond would not infiltrate and percolate through the inert debris landfill. In addition, minor changes to the conceptual plan for the aboveground recreational amenities, as shown in Figure 4, have been made, which consist of replacing the exercise station with a soccer field and adding a picnic pavilion. The design of the currently proposed Rory M. Shaw Wetlands Park project has not changed such that the existing or future hydrologic conditions of the site would be substantially altered.

The Rory M. Shaw Wetlands Park project site and the adjacent section of Tujunga Avenue are mapped as being within a 100-year flood zone. The Initial Study prepared for the 2004 PEIR found that none of the SVWMP projects would expose people or structures to flooding hazards. That Initial Study also found that impacts associated placing structures within a 100-year flood hazard area would be less than significant because the new structures and modifications to existing facilities included in the SVWMP are intended to reduce stormwater runoff and flooding and would be designed to collect, retain, and infiltrate or reuse stormwater runoff. These structures and facilities were expected to impede and/or redirect flood flows in a controlled manner. Thus, the SVWMP was found to have a beneficial impact with respect to flooding (Los Angeles County Flood Control District 2004).

The currently proposed Rory M. Shaw Wetlands Park is located at the same site as the 2004 Approved Wetlands Park and has substantially the same design and function with respect to its effect on flooding and stormwater management in the project vicinity as the 2004 Approved Wetlands Park. Thus, this currently proposed project would not result in new significant impacts to hydrology and

	water quality and would not result in substantial increases in the severity of previously identified significant impacts or the need to provide new mitigation measures. Specific control measures identified in **Mitigation Measure W-1** (See Appendix G - Sections 2.3 and 3.5 of Attachment 2, MMRP) of the 2004 PEIR, which requires the development and implementation of an SWPPP that includes specific measures to ensure compliance with the Los Angeles Regional Water Quality Control Board standards, would apply to the currently proposed Rory M. Shaw Wetlands Park project. In addition, implementation of **Mitigation Measure H-1** (See Appendix G - Sections 1.4 and 3.4 of Attachment 2, MMRP), would be required to ensure contaminated soils are disposed of in compliance with applicable regulations at the project site to reduce potential impacts to groundwater quality. Groundwater impacts require implementation of **Mitigation Measure W-4** (See Appendix G - Sections 1.5 and 4.4 of Attachment 2, MMRP) to ensure impacts remain less than significant. The currently proposed Rory M. Shaw Wetlands Park project would result in similar operational characteristics as the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project and would implement **Mitigation Measure W-4** to reduce impacts to less than significant. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, this currently proposed project would convey the treated runoff from the wetlands to the existing infiltration basins in the adjacent Sun Valley Park. The changes in configuration proposed in the aboveground components for the Rory M. Shaw Wetlands Park project would not alter the ability of this project to contribute to attainment of the watershed management goals described in the 2004 PEIR. Further, since this project is proposed for the purposes of flood protection, increased water conservation, improved water quality, increased habitat restoration, and enhanced recreational opportunities, cumulative impacts to water quality would be less than significant. Similar to the 2004 Approved Wetlands Park project described in the 2004 PEIR, the currently proposed Rory M. Shaw Wetlands Park project would involve the conversion of a 46-acre, non-operating inert construction debris landfill into a constructed wetlands park that would provide flood control, water conservation, habitat, recreation, and water quality enhancements to the Sun Valley community, including a 21-acre detention pond, 10 acres of wetlands, and 15 acres of recreational space. Similar to the 2004 Approved Wetlands Park project described in the 2004 PEIR, the currently proposed Rory M. Shaw Wetlands Park project would result in the construction of permeable surfaces and impermeable surfaces. Neither the 2004 Approved Wetlands Park project, 2013 Approved Wetlands Park project, nor this currently proposed project involve groundwater extraction. The Rory M. Shaw Wetlands Park project would not deplete groundwater supplies or interfere with groundwater recharge. Consistent with the 2004 PEIR, the project would add a beneficial impact with respect to groundwater supply through increased groundwater recharge by conveying treated stormwater to the existing infiltration basins in the adjacent Sun Valley Park. The Rory M. Shaw Wetlands Park project site is located within a 100-year floodplain; however, it does not include any housing. The project site is also located approximately 15 miles inland from the Pacific Ocean, and therefore

there is no risk of tsunami in the area. No mudflow hazards have been identified for the project area. Hansen Dam and Lake are located approximately four miles north of the project site. The project site would be subject to inundation in case of failure of Hansen Dam or a seiche at Hansen Lake. The currently proposed Rory M. Shaw Wetlands Park project would not result in exposure of people or structures to a significant risk from Hansen Dam/Lake. Impacts would be less than significant.

In conclusion, the Rory M. Shaw Wetlands Park project would not result in any new or different impacts related to hydrology and water quality from those previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

The proposed Upper Storm Drain System project provides for collection and conveyance of stormwater through the construction of new storm drains. The project site for the currently proposed Upper Storm Drain System project remains generally consistent with the project site identified for the 2004 Storm Drains project, the 2013 Approved Storm Drain project, and the 2020 Approved Upper Storm Drain System project; as such, the same hydrologic conditions that were analyzed and discussed for the 2004 Storm Drains project, the 2013 Approved Storm Drain project, and the 2020 Approved Upper Storm Drain System project would apply to this currently proposed project. Relative to the 2020 Approved Upper Storm Drain System project, the revised project components include a reduction in the length of the storm drain lines and tunnel and a longer construction schedule.

The Upper Storm Drain System would result in a reduction of polluted stormwater runoff entering the Los Angeles River, and therefore as described in the 2004 PEIR, 2013 Addendum, and 2020 Addendum, the project is expected to have a beneficial impact on surface water quality. The project is located in an urban area with commercial, industrial, and residential uses. As such, the stormwater run-off may contain pollutants that must be filtered out before the water can be reused or fed back into the watershed. The storm drain lines constructed north of Penrose Street would convey stormwater to the Rory M. Shaw Wetlands Park project, where the stormwater would be detained in the detention pond and routed through wetlands for treatment before being conveyed to the adjacent Sun Valley Park groundwater infiltration basins. As described in the SVWMP, 2004 PEIR, 2013 Addendum, and 2020 Addendum, this would provide appropriate water quality treatment for the stormwater to ensure protection of groundwater quality. The storm drain lines constructed south of the Rory M. Shaw Wetlands Park would convey any stormwater that exceeds the storage capacity of the detention pond to the existing storm drain project No. 39, which conveys stormwater further south to other stormwater treatment facilities.

Water quality impacts during construction would be less than significant with implementation of **Mitigation Measure W-1** from the 2004 PEIR, which requires development and implementation of a SWPPP that includes specific measures to ensure compliance with the Los Angeles Regional Water Quality Control Board standards.

Construction and operation of the Upper Storm Drain System does not involve groundwater extraction. Therefore, this project would not deplete groundwater supplies or interfere with groundwater recharge. Consistent with the 2004

PEIR, 2013 Addendum, and 2020 Addendum, the currently proposed Upper Storm Drain System project would add a beneficial impact with respect to groundwater supply by providing for groundwater recharge. No adverse impacts on aquifer volume or the local groundwater table level would occur.

In conclusion, the currently proposed Upper Storm Drain System project would not result in any new or different impacts related to hydrology and water quality from those previously identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Land Use and Planning:

Rory M. Shaw Wetlands Park

The issue of Land Use and Planning was excluded from detailed analysis in the 2004 PEIR because the analysis in the Initial Study prepared to support that EIR showed that the SVWMP, including the 2004 Approved Wetlands Park project, would have no impacts related to physically dividing an existing community or conflicting with land use plans, policies, and regulations regarding environmental impacts. The Initial Study prepared in support of the 2013 Addendum found that the 2013 Approved Wetlands Park project would also have no impacts related to land use and planning. The project site for the currently proposed Rory M. Shaw Wetlands Park project remains the same as the project site identified for the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project and there have not been any substantial changes in the land use conditions in the vicinity (HistoricAerial.com 2024). Therefore, the same land use and planning conditions that were analyzed and discussed for the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project would apply to this currently proposed project. Further, the project design has not changed such that the existing or future land use conditions in the project vicinity would be substantially altered.

The currently proposed Rory M. Shaw Wetlands Park project would not involve the construction of roads or large structures that would disrupt or divide the physical arrangement of an established community. The conversion of an existing 46-acre construction debris landfill would not conflict with applicable land use plans, policies, or regulations. In conclusion, the Rory M. Shaw Wetlands Park project would result in no impacts from a land use or planning perspective, consistent with the findings of the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

As noted previously, the issue of Land Use and Planning was excluded from detailed analysis in the 2004 PEIR because the analysis in the Initial Study prepared to support that EIR showed that the SVWMP, including the 2004 Storm Drains project, would have no impacts related to physically dividing an existing community or conflicting with land use plans, policies, and regulations regarding environmental impacts. The 2013 Addendum and 2020 Addendum also found that the 2013 Approved Storm Drain project and 2020 Approved Upper Storm Drain System project would have no impacts related to land use and planning.

The project site for the currently proposed Upper Storm Drain System project is consistent with the project site identified for the 2004 Storm Drains project, 2013 Approved Storm Drain project and 2020 Approved Upper Storm Drain

System project, and there have not been any substantial changes in the land use conditions in the vicinity (HistoricAerials.com 2024). Therefore, the same land use and planning conditions that were analyzed and discussed for the 2004 Storm Drains project, 2013 Approved Storm Drain project and 2020 Approved Upper Storm Drain System project would apply to this currently proposed project. Relative to the 2020 Approved Upper Storm Drain System project, the revised project components include a reduction in the length of the storm drain lines and tunnel and a longer construction schedule. The design of the currently proposed Upper Storm Drain System project has not changed such that the existing or future land use conditions in the project vicinity would be substantially altered.

The currently proposed Upper Storm Drain System project would not involve the construction of roads or large structures that would disrupt or divide the physical arrangement of an established community. The construction of storm drains and associated stormwater management infrastructure beneath existing paved public roads would not conflict with applicable land use plans, policies, or regulations. In conclusion, the currently proposed Upper Storm Drain System project would result in no impacts from a land use or planning perspective, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Mineral Resources:

Rory M. Shaw Wetlands Park

The Rory M. Shaw Wetlands Park project site remains the same as the project site identified for the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project and there have not been any substantial changes in the mineral resource conditions in the vicinity. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the project site is located within the MRZ-2 zone, which indicates an area where adequate information determined significant mineral deposits are present. Although the project site was previously used as a gravel pit. The gravel resources at the project site were exhausted and gravel extraction operations were terminated prior to the District's acquisition of the site for the project. Therefore, implementation of the currently proposed Rory M. Shaw Wetlands Park project would not result in the conversion of an active gravel extraction site and would not result in the loss of availability of a known mineral resource. Further, the project design has not changed such that the existing mineral resources conditions in the project vicinity would be substantially altered.

This project would not result in the loss of availability of a known mineral resource or locally important mineral resources recovery site. Therefore, the currently proposed Rory M. Shaw Wetlands Park project would result in no impacts to mineral resources, consistent with the findings of the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

The Upper Storm Drain System project site is consistent with the project site identified for the 2004 Storm Drains project, 2013 Approved Storm Drain project and 2020 Approved Upper Storm Drain System project, and there have not been any substantial changes in the mineral resource conditions in the vicinity. Relative to the 2020 Approved Upper Storm Drain System project, the

revised project components include a reduction in the length of the storm drain lines and tunnel and a longer construction schedule.

The currently proposed Upper Storm Drain System project would be located under existing paved roads. No mineral extraction activities currently occur within the project site and no active mining areas or areas containing significant mineral resources would be affected by this project. Therefore, the Upper Storm Drain System would result in no impacts to mineral resources, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Noise:

Rory M. Shaw Wetlands Park

The Rory M. Shaw Wetlands Park project site remains the same as the project site identified for the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project and there have not been any substantial changes in the noise conditions in the vicinity. Further, as demonstrated in the following discussion, the changes in the Rory M. Shaw Wetlands Park project design and construction activities would not result in substantial changes in the existing or future noise conditions in the project vicinity and the noise impacts of this currently proposed project would be consistent with the findings of the 2004 PEIR. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the noise analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, noise was not discussed in the 2013 Addendum.

Noise-sensitive receptors in the vicinity of the Rory M. Shaw Wetlands Park project include residential land uses to the south, southwest, and east of the project site; Sun Valley Park to the east; a soccer complex to the west; and Arminta Street Elementary School located approximately 0.2 miles west of the site. The 2004 Approved Wetlands Park project was determined to have potentially significant noise impacts for all phases of project construction. With implementation of **Mitigation Measures N-1 through N-4** (See Appendix G - Sections 2.4 and 3.6 of Attachment 2, MMRP), construction-related noise impacts were determined to be less than significant. Noise sources during construction of the currently proposed Rory M. Shaw Wetlands Park project include the DDC activities, construction crew and vendor vehicles, haul trucks, on-site rock crushing, and construction of the above-ground improvements (the detention pond, wetlands, installation of the passive methane treatment system, trenching for utilities, and the recreational amenities). As discussed in detail in Attachment 2 and summarized here, the noise levels at nearby sensitive receptors during each of these construction activities would remain well below the worst-case construction noise level estimated in the 2004 PEIR, which was 81 decibels (dB). The average and maximum noise levels at nearby sensitive receptors for each activity are:

- DDC: Average noise levels ranging from 57 to 31 dB; maximum noise levels ranging from 64 to 39 dB.
- Traffic/Haul Trucks: Noise increase of less than 1 dB.
- Rock-Crushing: Average noise levels of 71 dB and maximum noise levels of 72 dB.

- Above-Ground Improvements: Average noise levels ranging from 74 to 40 dB; maximum noise levels ranging from 76 to 44 dB.

Thus, the new and revised components under the currently proposed Rory M. Shaw Wetlands Park project would not result in new significant impacts and would not increase the severity of the construction noise impacts as identified in the 2004 PEIR. No new mitigation measures (beyond those contained in the 2004 PEIR) would be necessary.

Construction of the Rory M. Shaw Wetlands Park project also has the potential to create vibration at nearby structures. Vibration impacts were not addressed in the 2004 PEIR or 2013 Addendum. The nearest sensitive structures are residences located on the south side of Strathern Street, which are located approximately 210 feet from potential construction activities. To address the effects of ground-borne vibration, the California Department of Transportation (Caltrans) has published guidance relating to structural vibration impacts, which finds that modern industrial/commercial buildings and new residential structures can be exposed to continuous ground-borne vibration levels of 0.5 inches per second without experiencing structural damage, and older residences can be exposed to continuous ground-borne vibration levels of 0.3 inches per second (Caltrans 2013). As shown in Attachment 2, the highest estimated vibration levels from DDC activities at the nearest sensitive receptor is 0.13 peak particle velocity (PPV, as measured in inches per second), which is well below the recommended Caltrans significance threshold of 0.5 inches per second. Thus, ground borne vibration from the proposed DDC activities, on-site crushing activities, and above-ground improvements would not result in new significant impacts. In addition, construction of the currently proposed Rory M. Shaw Wetlands Park project is estimated to result in approximately 70 additional one-way truck trips per day on the local roadways, which would be negligible based upon the existing traffic volumes, as discussed in Attachment 2. Therefore, vibration related to project-related construction vehicles on local roadways would not result in new significant impacts.

The 2004 PEIR found that noise sources during operation of the 2004 Approved Wetlands Park project would be limited to traffic, including worker vehicles travelling to the site for maintenance and inspection, as well as visitor vehicles associated with use of the recreational facilities. The noise impact of this additional traffic was found to be less than significant. The revisions to the project design since certification of the 2004 PEIR would not substantially increase maintenance and inspection activities or the amount of visitor vehicles accessing the site. Additionally, the new passive methane treatment system component of the Rory M. Shaw Wetlands Park project would be entirely passive, consisting of pipes and vents. No fans, pumps or motors would be used as part of the passive methane treatment system. Thus, this system would not generate any mechanical noise or vibration, and operation of the passive methane treatment system would not result in new significant impacts related to noise and vibration.

The project site is located within the vicinity of two airports: the Hollywood Burbank Airport and Whiteman Airport, located approximately one mile to the southeast and approximately 3 miles to the northwest respectively. However, the proposed Rory M. Shaw Wetlands Park project does not involve construction of housing or employment centers and therefore would not result in exposure of people or structures to a significant noise related to an airport.

	In conclusion, the currently proposed Rory M. Shaw Wetlands Park project would not result in new or substantially more severe noise effects relative to the noise impacts identified in the 2004 PEIR and 2013 Addendum. Upper Storm Drain System The Upper Storm Drain System project site is consistent with project site identified for the 2004 Storm Drains project, 2013 Approved Storm Drain project and 2020 Approved Upper Storm Drain System project and there have not been any substantial changes in the noise conditions in the vicinity. Further, as demonstrated in the following discussion, the changes in the Upper Storm Drain System project construction activities would not result in substantial changes in the existing or future noise conditions in the project vicinity and the noise impacts of this currently proposed project would be consistent with the findings of the 2004 PEIR and 2020 Addendum. As noted previously, the Initial Study prepared in support of the 2013 Addendum determined that no changes to the noise analysis in the 2004 PEIR were necessary for the 2013 Approved Project, and thus, noise was not discussed in the 2013 Addendum. The land uses surrounding phases 2 and 3 of the Upper Storm Drain System project are predominantly industrial. Noise-sensitive receptors near phases 2 and 3 include a public/institutional building (the County of Los Angeles Department of Public Social Services) on the east side of Glenoaks Boulevard, a medical office building on the northwest corner of the intersection of Sheldon Avenue and San Fernando Road, a hotel on San Fernando Road approximately 0.2 miles north of Sheldon Avenue, and residences north of Sheldon Avenue between Ilex Avenue and El Dorado Avenue (which is approximately 0.1 miles west of San Fernando Road). The noise-sensitive receptors in the vicinity of phase 4 include a soccer complex immediately west of the northern end of this phase and residential and commercial uses along Tujunga Avenue, Saticoy Street, and Vineland Avenue. In addition, Table 5 identifies schools that are within 0.5 miles of the Upper Storm Drain System project site. The 2004 PEIR found that the 2004 Storm Drains project could result in noise levels of up to 92 dB at the nearest sensitive receptors, which were assumed to be located within 50 feet of the construction activity. The 2004 PEIR concluded that the 2004 Storm Drains project could result in significant noise impacts and identified mitigation measures to reduce this impact to a less-than-significant level. The 2004 PEIR noted that “While noisy, construction impacts related to storm drain installation are very temporary at any one location. These linear construction zones are expected to progress at an average rate of 200 to 500 feet per day. Under typical conditions, any particular location would be directly impacted by the construction activities for one to five days” (Los Angeles County Flood Control District 2004).

Table 5: Schools Within 0.5 Miles of Upper Storm Drain System		
School Name and Address	*Distance and Direction from Project Site*	*Nearest Phase*
Fenton Academy (elementary) 8926 Sunland Boulevard	0.37 miles southeast of the intersection of Glenoaks Boulevard and Tuxford Street	Phase 2
ACRMA 21 (high school) 11933 Allegheny Street	Approximately 500 feet west of the intersection of San Fernando Road and Allegheny Street	Phase 3
Sun Valley High School 9171 Telfair Avenue	0.3 miles west of the intersection of San Fernando Road and Sheldon Street	Phase 3
Fernangeles Elementary School 12001 Art Street	0.3 miles west of the intersection of San Fernando Road and Art Street	Phase 3
Sun Valley Magnet School 7330 Bakman Avenue	0.27 miles south of Saticoy Street	Phase 4
ISANA Cardinal Academy 7301 Fair Avenue	0.27 miles south of Saticoy Street	Phase 4
Arminta Street Elementary School 11530 Strathern Street	0.2 miles east of the intersection of Tujunga Avenue and Strathern Street	Phase 4
Camellia Avenue Elementary School 7451 Camellia Avenue	0.25 miles southwest of the intersection of Tujunga Avenue and Saticoy Street	Phase 4
Roscoe Elementary School 10765 Strathern Street	0.5 miles east of the intersection of Strathern Street and Fair Avenue	Phase 4

The 2020 Addendum noted that detailed construction plans for the Storm Drains project were not available at the time the 2004 PEIR was prepared, and thus the 2004 PEIR analysis was based on estimates of the two noisiest pieces of equipment that would be operating concurrently. The 2020 Addendum included a more detailed project-specific analysis based on the storm drain alignments for the 2020 Approved Upper Storm Drain System project.

The 2020 Addendum found that sensitive receptors nearest the project site would be exposed to maximum noise levels ranging between 86.8 and 84.6 dB. The City's maximum allowable noise level during construction is 75 dB. Thus the 2020 Addendum concluded that this project would result in significant noise impacts and would require implementation of **Mitigation Measures N-1 through N-4** (See Appendix G - Sections 2.4 and 3.6 of Attachment 2, MMRP) from the 2004 PEIR. These measures establish the

	allowed hours of construction consistent with the City of Los Angeles Noise Ordinance, require that mufflers or other noise reduction devices be used for all mobile construction equipment, require that the construction contractor for each phase develop a site-specific noise mitigation plan which would reduce noise levels to 75 dBA at the nearest residences, and 67 dBA at any nearby school sites during project construction. The 2020 Addendum concluded that implementation of these measures would reduce the noise impacts of the 2020 Approved Upper Storm Drain System project to a less-than-significant level by ensuring that sensitive receptors are not exposed to noise levels that exceed the City's standards. The proposed revisions to the Upper Storm Strain System, which include a shorter length for some of the project components and a longer construction period, would not require changes in the types or numbers of construction equipment operating at one time and therefore the maximum potential noise exposure level for nearby sensitive receptors during construction would not increase. Thus, with implementation of the identified mitigation measures, the currently proposed Upper Storm Drain System project would result in less than significant noise impacts during construction, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum. Construction of the currently proposed Upper Storm Drain System project also has the potential to create vibration at nearby structures. The nearest sensitive structures are older residences located off of Sheldon Street, which could be exposed to vibration during construction of Phase 2. These structures are located approximately 50 feet from potential construction activities. As stated in the Rory M. Shaw Wetlands Park noise discussion, Caltrans has found that modern industrial/commercial buildings and new residential structures can be exposed to continuous ground-borne vibration levels of 0.5 inches per second without experiencing structural damage, and older residences can be exposed to continuous ground-borne vibration levels of 0.3 inches per second. The 2020 Addendum found that vibratory rollers would be the most significant piece of construction equipment to be used on-site during backfill and paving activities, which have the potential to create a groundborne vibration level of approximately 0.210 PPV at a reference distance of 25 feet. At a distance of 50 feet, which is the distance to the nearest vibration-sensitive receptor, the vibration level would be approximately 0.074 PPV. Thus, the currently proposed Upper Storm Drain System project would not create significant levels of vibration at nearby structures, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum. The 2004 PEIR found that operation and maintenance of facilities included in the SVWMP was expected to have minimal adverse noise impacts. During operation of the Upper Storm Drain System project, noise would be generated by worker vehicles traveling to various segments of the storm drain system for maintenance and inspection, which may occur up to several times a year for each segment. The 2004 PEIR identified the following daily traffic volumes on area roadways at that time (Los Angeles County Flood Control District 2004, Tables 4.11-2, 4.11-3, 4.11-5, and 4.11-11): • Sheldon Street at Glenoaks Boulevard – 15,000 • San Fernando Road at Sheldon Street – 25,000 • Glenoaks Boulevard at Sheldon Street – 24,000 • Glenoaks Boulevard at Tuxford Street – 22,000

- Tuxford Street at San Fernando Road – 33,000
- San Fernando Road at Tuxford Street – 20,000
- Bradley Avenue at Tuxford Street – 8,000
- Tujunga Avenue at Strathern Street – 15,000

It generally requires a doubling of traffic volumes to increase noise levels by 3 dB (Caltrans 2013). In general, periodic maintenance and inspection of the storm drain system would require between 1 and 5 vehicles. Thus, the traffic associated with storm drain system maintenance and inspection would increase noise levels by less than 1 dB and noise impacts related to the increase in traffic associated with operation would be less than significant, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

In conclusion, the Upper Storm Drain System project would not result in any new significant noise impact or more severe impacts than those identified in the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Population and Housing:

Rory M. Shaw Wetlands Park

The issue of Population and Housing was excluded from detailed analysis in the 2004 PEIR because the analysis in the Initial Study prepared to support that EIR showed that the SVWMP, including the 2004 Approved Wetlands Park project, would have no impacts related to directly or indirectly inducing population growth, displacing housing, or displacing people. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the population and housing analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, population and housing was not discussed in the 2013 Addendum. Consistent with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project does not involve the construction of new homes, would not construct new, potentially growth-inducing infrastructure such as roads or potable water or wastewater systems, and would not displace any people or housing. The Rory M. Shaw Wetlands Park would have no impacts associated with population and housing. Further, since this project would not contribute to cumulative population, employment, or housing growth, no cumulative impacts would occur. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in new significant environmental effects or a substantial increase in the severity of a significant effect identified in the 2004 PEIR and 2013 Addendum relative to population and housing.

Upper Storm Drain System

As stated previously, the issue of Population and Housing was excluded from detailed analysis in the 2004 PEIR because the analysis in the Initial Study prepared to support that EIR showed that the SVWMP, including the 2004 Storm Drains project, would have no impacts related to directly or indirectly inducing population growth, displacing housing, or displacing people. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the population and housing analysis in the 2004 PEIR were necessary for

the 2013 Approved Storm Drain Project, and thus, population and housing was not discussed in the 2013 Addendum. The 2020 Addendum also found that the 2020 Approved Upper Storm Drain System project would have no impacts related to population and housing. The currently proposed Upper Storm Drain System project would not involve construction of new homes or businesses and does not include construction of potentially growth-inducing, infrastructure. Therefore, the Upper Storm Drain System project would not induce substantial population growth. In addition, no individuals would be displaced by this project. The currently proposed Upper Storm Drain System project would have no impact relating to population and housing, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Public Services:

  Rory M. Shaw Wetlands Park

  The 2004 PEIR found that implementation of the 2004 Approved Wetlands Park project could result in temporary impacts to public services during construction that would be reduced to less-than-significant levels with implementation of mitigation measures and would not have any impacts to public services during operation. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the public services analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, public services were not discussed in the 2013 Addendum.

  As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project would not involve construction of housing or other structures that would result in an increase in population; therefore, operational impacts to public services would be less than significant. The project would contribute to providing additional recreation opportunities to the surrounding area. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, construction activities for the currently proposed Rory M. Shaw Wetlands Park project could result in temporary lane closures and impact fire and police protection services. Therefore, **Mitigation Measures P-1 through P-4** (See Appendix G - Section 2.5 of Attachment 2, MMRP) continue to be required. These measures address potential public services impacts during construction by requiring consultation and coordination with local emergency service providers prior to the start of construction, ensuring that all applicable state and local codes and ordinances are adhered to, communication and coordination with local police to minimize impacts regarding project-related lane and/or road closures, and detours by implementing traffic control measures such as “No Parking” signs as needed. In addition, the currently proposed Rory M. Shaw Wetlands Park project would continue to require implementation of **Mitigation Measures P-5 through P-11** (See Appendix G - Sections 2.5 and 3.7 of Attachment 2, MMRP) as identified in the 2004 PEIR to reduce potential construction impacts to schools. These measures cover a wide variety of safety and traffic related impacts during construction, including ensuring bus access; safe and convenient pedestrian routes; communication with school administrators for notice relating to pedestrian and vehicular traffic; installation of traffic controls for safety; haul routes during school sessions, construction worker vehicle parking, and use of fencing and other barriers to reduce hazards around construction areas. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in any new or

different impacts related to public services from those previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

The 2004 PEIR and 2020 Addendum found that implementation of the 2004 Storm Drains project and the 2020 Approved Upper Storm Drain System project could result in temporary impacts to public services during construction that would be reduced to less-than-significant levels with implementation of mitigation measures and would not have any impacts to public services during operation. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the public services analysis in the 2004 PEIR were necessary for the 2013 Approved Project, and thus, public services were not discussed in the 2013 Addendum.

Consistent with the 2004 Storm Drains project, 2013 Approved Storm Drain project, and 2020 Approved Upper Storm Drain System project, the currently proposed Upper Storm Drain Project does not involve construction of housing or other structures that would result in a substantial increase in the demand for fire protection, emergency medical services, police protection, schools, or road maintenance. Further, none of the infrastructure that would be constructed as part of this project would increase fire hazards or need for emergency medical or law enforcement services in the area.

However, as discussed in the 2004 PEIR and 2020 Addendum, construction of the Upper Storm Drain System project could require temporary road or lane closures, which could require emergency responders to use less direct routes that may increase response times. Additionally, construction activities could temporarily affect fire vehicles access to streets, hydrants, or structures adjacent or proximate to the construction zone. Similarly, road or lane closures could temporarily cause students and school busses to take alternate routes or experience delays. These impacts would be reduced to a less-than-significant level with implementation of **Mitigation Measures P-1 through P-11,** as summarized in the Rory M. Shaw Wetlands Park public services discussion.

The storm drains would be constructed beneath the surface of existing paved roads. All roads would be restored upon completion of that segment of storm drain construction and at the completion of any maintenance and repair efforts. Thus, the currently proposed Upper Storm Drain System project would have no impacts to road maintenance, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

In conclusion, the Upper Storm Drain System project would not result in any new or different public services impacts from those previously identified in the 2004 PEIR 2013 Addendum, and 2020 Addendum.

- Recreation:

Rory M. Shaw Wetlands Park

The 2004 PEIR found that implementation of the 2004 Approved Wetlands Park project would have no direct impacts to existing recreational facilities and would not increase the use of existing recreational facilities that may lead to deterioration of such facilities, and thus would have no impacts to recreation. The Initial Study prepared in support of the 2013 Addendum determined that

no changes to the recreation analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, this topic was not discussed in the 2013 Addendum.

The currently proposed Rory M. Shaw Wetlands Park project would be of a similar size, design, and land use intensity as the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. The project site does not currently contain any recreational facilities, and thus, as with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the Rory M. Shaw Wetlands Park project would not have temporary construction impacts on an existing on-site recreational facility. Similar to the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the proposed project would provide new recreational and open space facilities and operation of this project would not adversely affect any existing recreational and open space facilities.

As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project does not involve the construction of new homes and does not involve new, potentially growth-inducing infrastructure such as roads or potable water or wastewater systems. The Rory M. Shaw Wetlands Park project would not result in increased use of existing recreational facilities. However, the proposed project would result in new on-site recreational facilities, the impacts of which are discussed throughout this Addendum. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in any significant impacts to recreation, consistent with the findings of the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

The 2004 PEIR and 2020 Addendum found that implementation of the 2004 Storm Drains project and 2020 Approved Upper Storm Drain System project would have no direct impacts to existing recreational facilities and would not increase the use of existing recreational facilities that may lead to deterioration of such facilities, and thus would have no impacts to recreation. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the recreation analysis in the 2004 PEIR were necessary for the 2013 Approved Project, and thus, this topic was not discussed in the 2013 Addendum.

The Upper Storm Drain System project does not involve construction of new recreational facilities, modifications to existing recreational facilities, or construction of new residences or other facilities and infrastructure that could lead to increased use of existing recreational facilities due to population growth. This currently proposed project involves the construction of new drainage system components. Therefore, there is no impact to existing recreational facilities. As such, the currently proposed Upper Storm Drain System project would not result in any new or different impacts from those previously identified in the 2004 PEIR, 2013 Addendum, or 2020 Addendum.

- Transportation:

Rory M. Shaw Wetlands Park

The 2004 PEIR analysis of transportation impacts focused on the degree to which construction and operation of each project component could affect the

volume to capacity (V/C) ratio, which is a measure of roadway congestion and traffic flow. Since certification of the 2004 PEIR and adoption of the 2013 Addendum, changes in CEQA and updates to the CEQA Guidelines now preclude the use of roadway congestion and traffic flow metrics to identify environmental effects. Instead, transportation impacts are evaluated in terms of vehicle miles traveled (VMT), as well as consideration of non-passenger vehicle modes of transportation such as walking, bicycling, and public transit. However, individual components of the SVWMP are still bound by the 2004 PEIR mitigation measures that address V/C ratio related impacts.

The 2004 PEIR found that implementation of the 2004 Approved Wetlands Park project would have significant transportation impacts during construction but less than significant impacts during operation. The 2004 PEIR identified that mitigation measure implementation would reduce construction impacts to a less-than-significant level. The 2013 Addendum determined that the 2013 Approved Wetlands Park project would result in slightly reduced impacts compared to the analysis presented in the 2004 PEIR.

As discussed in Appendix F to Attachment 2, the currently proposed Rory M. Shaw Wetlands Park project would generate less daily and peak hour traffic volumes than previously analyzed, and thus, would not create additional traffic impacts than those disclosed in the 2004 PEIR. However, a mitigation measure would still be required as the V/C ratios and level of service (LOS) on affected segments of Tujunga Avenue, Vineland Avenue, and Sunland Boulevard would remain at LOS E or F without the project, and this currently proposed project would contribute additional V/C to those LOS E or F roadway segments. As such, **Mitigation Measure T-1** (See Appendix G - Section 2.6 of Attachment 2, MMRP), as described in the 2004 PEIR would be required for the Rory M. Shaw Wetlands Park project. This measure requires preparation and implementation of a construction traffic management plan that addresses haul routes, time of travel restrictions to minimize effects during peak periods, temporary traffic controls, and construction worker parking. The operational and maintenance traffic associated with the currently proposed Rory M. Shaw Wetlands Park project is anticipated to be nominal and would be consistent with the operational phase of the 2004 Approved Wetlands Park project analyzed in the 2004 PEIR.

As discussed in Appendix F to Attachment 2, Phase 2 of the currently proposed Rory M. Shaw Wetlands Park project would have the highest vehicle-trip generation for passenger-cars/light-duty trucks of workers only (heavy trucks are not required to be included per the Governor's Office of Land Use and Climate Innovation guidance for VMT analysis) for the DDC activities, haul excess material, and concrete crushing components because these construction phases would overlap each other based on their start and end dates. At the time the 2004 PEIR was certified and the 2013 Addendum was adopted, there was no requirement to evaluate a project's increase in VMT. In 2018, the CEQA Guidelines were updated to replace the requirement to evaluate congestion-based impacts related to V/C ratios and LOS with the requirement to evaluated VMT. The VMT generated by construction-related trips are temporary and construction would not generate permanent trips, therefore the VMT from construction is not required to be quantified. While worker and vendor trips during construction would generate VMT, once construction is completed, the construction-related traffic would cease and VMT would return to pre-construction conditions. Therefore, since construction-related traffic is temporary and the peak phase of Phase 2 and Phase 3 construction would generate less than 110 daily trips (of passenger-cars/light-

duty trucks) per the County's VMT screening criteria, the currently proposed Rory M. Shaw Wetlands Park project would not conflict or be inconsistent with the state's CEQA Guidelines Sections 15064.3(b)(1) and 15064.3(b)(3), and impacts to VMT would be less than significant. The Rory M. Shaw Wetlands Park project can be classified as a unique land use since the County's guidelines do not provide specific guidance for VMT analysis of a park-type land use. The currently proposed Rory M. Shaw Wetlands Park project is anticipated to reduce the distance that the residents may currently be traveling to access local parks and recreational facilities, thus reducing VMT generated by those residents. As a result, this proposed project would not cause an increase in VMT and therefore its impact would be less than significant.

Implementation of the currently proposed Rory M. Shaw Wetlands Park project would not increase hazards due to a design feature or incompatible use. The project would not alter any roadways or intersections in the vicinity or introduce land uses that involve the operation of vehicle types that are not currently using local roadways. As such, the proposed project would not result in new significant impacts related to substantially increased hazards due to a geometric design feature or incompatible uses and would not result in substantial increases in the severity of previously identified significant impacts.

The currently proposed Rory M. Shaw Wetlands Park project would also comply or conform with the provisions of all applicable codes and ordinances related to emergency access. Therefore, the currently proposed project would provide adequate emergency access and would not interfere with an adopted emergency response plan or emergency evacuation plan. Impacts would be less than significant.

In conclusion, the currently proposed Rory M. Shaw Wetlands Park project would not result in any new significant impacts related to transportation compared to those previously identified in the 2004 PEIR or 2013 Addendum.

Upper Storm Drain System

The 2004 PEIR and 2020 Addendum found that implementation of the 2004 Storm Drains project and 2020 Approved Upper Storm Drain System project would have significant transportation impacts during construction but less than significant impacts during operation. The 2004 PEIR identified that mitigation measure implementation would reduce construction impacts to a less-than-significant level. The 2013 Addendum determined that the 2013 Approved Storm Drain Project would result in slightly reduced impacts compared to the analysis presented in the 2004 PEIR.

The construction activities evaluated for the 2004 Storm Drains project included the construction of storm drains/pipelines on numerous streets within the SVWMP area. The 2004 PEIR addressed the transportation impacts that would occur during storm drain/pipeline construction.

The 2004 PEIR and 2020 Addendum note that "construction of storm drains would typically require a construction zone that ranges from 20 to 50 feet in width and from 200 to 500 feet in length to accommodate the activities of digging a trench, installing the pipe, back-filling, compacting the fill material, and reconstructing/paving the surface area. It is anticipated that the construction zone would advance linearly along the route at an average rate of 200 to 500 feet per day. Any particular location would be directly impacted by

the construction activities for a duration of one to five days under typical conditions" (Los Angeles County Flood Control District 2004, 2020).

The 2004 PEIR concluded that since the precise locations of the pipelines and the exact width of the construction zones had not yet been established, the specific impacts could not be identified for each affected roadway. The 2004 PEIR outlines a list of potential impacts that would typically occur during storm drain construction, such as traffic disruptions and lane blockages on the affected public streets, temporary elimination of on-street parking, blocked access to adjacent land uses, disruption to pedestrian and bicycle traffic, increased safety risks to all modes of transportation, and disruption to and delays in public transit services.

The 2004 PEIR included **Mitigation Measures T-2 through T-7** which require: a construction traffic control plan and/or detour plan, advance notification to affected property owners, alternative pedestrian and bicycle access/circulation routes, coordination with emergency service providers, coordination with public transit agencies, and as necessary a transportation permit from Caltrans for transportation of heavy construction equipment. With implementation of the identified mitigation measures**,** impacts of the currently proposed Upper Storm Drain System project would be less than significant. Thus, the Upper Storm Drain System project would not result in any new or greater transportation impacts than those previously identified in the 2004 PEIR, 2013 Addendum, or 2020 Addendum.

- Tribal Cultural Resources:

Rory M. Shaw Wetlands Park

Since certification of the 2004 PEIR and the 2013 Addendum, updates to the State CEQA Guidelines have added a requirement to evaluate a project's potential effects on tribal cultural resources. Assembly Bill 52 (Public Resources Code sections 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3) is applicable to projects that have prepared either a negative declaration, mitigated negative declaration, or environmental impact report on or after July 1, 2015. The NOP for the 2004 PEIR was filed on November 12, 2002, and predates compliance with AB 52. Moreover, the currently proposed Rory M. Shaw Wetlands Park project does not include additional locations not previously addressed in the 2004 PEIR nor does this currently proposed project include new disturbances to previously investigated sites. The provisions of AB 52, including the Native American Consultation process, established since preparation of the PEIR do not apply to Addendums. Furthermore, since no tribal cultural resource issues were raised at the time the 2004 PEIR was certified, CEQA documents tiering from the 2004 PEIR are not required to address tribal cultural resource issues (*Citizens for Responsible Equitable Environmental Development v. City of San Diego (2011) 196 Cal.App.4th 515*).

Cultural investigations conducted as part of the 2013 Addendum, in accordance with **Mitigation Measure C-5** (See Appendix G - Section 1.2 of Attachment 2, MMRP) in the 2004 PEIR, identified four structures that were over 50 years old within the Rory M. Shaw Wetlands Park project site (see discussion of Cultural Resources, above). Evaluation of those structures concluded that none met the historic eligibility requirements under any of the four California Register Historical Resources criteria and that there were no

historic resources present, as defined by CEQA. Those structures were demolished under Phase 1 of the 2013 Approved Wetlands Park project, which was completed in 2017.

An additional cultural resources investigation was completed in support of this current EIR Addendum. The investigation found that there are no historic resources present within the Rory M. Shaw Wetlands Park project site (Dudek 2024). Thus, construction of this currently proposed project under phases 2 and 3 would not impact historical resources

Potential ground disturbing activities associated with the currently proposed Rory M. Shaw Wetlands Park project would result in excavation and grading activities that could potentially encounter buried unknown tribal cultural resources. Thus, the 2012 Supplemental Cultural Resources Survey, prepared in support of the 2013 Addendum, recommended implementation of **Mitigation Measure C-2**, which requires that the pit be monitored for cultural resources during the first day of subsurface work. Implementation of **Mitigation Measure C-2** (See Appendix G - Section 3.3 of Attachment 2, MMRP) would reduce potential impacts to unknown tribal cultural resources to a less-than-significant level. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in any new significant impacts that were not previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

As discussed in the Cultural Resources analysis, there are no known historic resources within the currently proposed Upper Storm Drain System project site (Dudek 2024). Similar to the Rory M. Shaw Wetlands Park, this currently proposed project does not include additional locations not previously addressed in the 2004 PEIR nor does this project include new disturbances to previously investigated sites. Construction of the Upper Storm Drain System project would involve ground disturbance in the form of pavement removal and trenching, during which buried unknown tribal cultural resources could be encountered. **Mitigation Measure C-2** from the 2013 Addendum does not apply to the Upper Storm Drain System, however, implementation of **Mitigation Measure C-3** would be required. This measure requires that a qualified archaeologist evaluate any previously unknown cultural resources encountered during construction. Compliance with **Mitigation Measure C-3** would reduce potential impacts on unknown tribal cultural resources. As such, the currently proposed Upper Storm Drain System project would not result in any new significant impacts that were not previously identified in the 2004 PEIR and 2013 Addendum. The 2020 Addendum does not address tribal cultural resources.

- Utilities and Service Systems:

Rory M. Shaw Wetlands Park

The 2004 PEIR found that implementation of the 2004 Approved Wetlands Park project could result in impacts to utilities during construction if existing utility lines are disturbed and found that this impact would be reduced to a less-than-significant level with implementation of mitigation measures. The 2004 PEIR found that the 2004 Approved Wetlands Park project would not have any operational impacts to existing sewer or wastewater systems; would not require new or expanded water supply sources; and would have a minimal,

	and thus less than significant, increased demand for electricity and solid waste disposal. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the utilities analysis in the 2004 PEIR were necessary for the 2013 Approved Wetlands Park project, and thus, this topic was not discussed in the 2013 Addendum. New components associated with the currently proposed Rory M. Shaw Wetlands Park project include DDC over the detention basin footprint; the hauling of excess materials to existing offsite disposal facilities; addition of a passive methane treatment system; and an on-site crushing component. All of the components, with the exception of the passive methane treatment, would occur during construction only and would cease upon completion of construction of this project. Hauling, on-site crushing, DDC, and construction of the passive methane treatment system would not result in water quality impacts and would be short-term in nature. As described in the 2004 PEIR, the 2004 Approved Wetlands Park project would involve excavation within the street rights-of-way, which may affect existing utilities and would involve installation of on-site utilities, including water lines, irrigation lines, sewer lines, and storm drain lines. Therefore, implementation of **Mitigation Measures U-1, U-2, and U-3** (See Appendix G - Sections 1.6, 2.7, and 3.8 of Attachment 2, MMRP) would be required to minimize interference with existing utility lines and interruption of service. These measures require identification of existing and proposed buried facilities for relocation or avoidance; notifying residents and businesses of service disruptions; and excavating around utilities, including use of hand excavation where necessary, particularly to locate buried gas and electric utilities, to avoid damage and interference with utilities. The changes in configuration proposed in the aboveground components for the currently proposed Rory M. Shaw Wetlands Park project would not alter the impacts related to utilities and service systems. Stormwater runoff collected under the 2004 Approved Wetlands Park project, 2013 Approved Wetlands Park project, and this currently proposed project would be treated at the project site, then a pipeline would carry the treated runoff from the wetlands to the Sun Valley Park for groundwater recharge. As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project's wetlands would result in a negligible demand for potable water. A potable water connection would be required to provide a backup water supply for the proposed irrigation system as well as for the water fountains and restrooms within the recreational component of the project. No new or expanded water supply sources would be required. Further, the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, and the currently proposed Rory M. Shaw Wetlands Park project would capture stormwater runoff for groundwater recharge. The 2004 PEIR identified that operation of the pumps at the project site required to transport collected stormwater to the Sun Valley Park would result in a minor increase in electricity demand. The currently proposed Rory M. Shaw Wetlands Park project would not require an increased use in electricity compared to the 2004 Approved Wetlands Park project. The solid waste generated by the proposed recreational components of this currently proposed project would be consistent with that analyzed as part of the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project. Therefore, impacts to utilities and service systems would remain less than significant under the currently proposed Rory M. Shaw Wetlands Park project.

	The Rory M. Shaw Wetlands Park project would help facilitate the capture of substantial amounts of stormwater runoff and the use of captured stormwater for groundwater recharge, which would be used to augment the local water supply. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in new significant environmental effects or a substantial increase in the severity of a previously identified significant effect related to utilities and service systems. To address construction waste generated by the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the 2004 PEIR and 2013 Addendum required implementation of **Mitigation Measure U-4** (See Appendix G - Section 2.7 of Attachment 2, MMRP), which requires that contractors identify and implement programs to minimize solid waste generated during construction, particularly to include recycling of asphalt and concrete paving materials and balancing soil cuts and fills to the extent feasible, to reduce impacts associated with solid waste and landfill capacity. Additionally, the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project were required to implement **Mitigation Measure U-5** (See Appendix G - Section 2.7 of Attachment 2, MMRP) which requires notifying the City of Los Angeles Bureau of Sanitation of the construction schedule and planned lane or road closures to ensure temporary change to collection routes of solid waste would be less than significant. The currently proposed Rory M. Shaw Wetlands Park project is not expected to substantially change the amount of solid waste generated during construction, and therefore, would not change the impact conclusions related to solid waste capacity. Furthermore, similar to the 2004 Approved Wetlands Park project, solid waste generated during operation of the Rory M. Shaw Wetlands Park project would be limited to sediments removed periodically from the stormwater collection facilities during maintenance and waste generated by users of the recreational facilities. Sediments would be disposed of in conformity with applicable regulations, and trash and recycling receptacles would be provided within the recreations portion of the site. Further, the solid waste generated by the proposed recreational components of the currently proposed Rory M. Shaw Wetlands Park project would be consistent with the volume of solid waste evaluated in the 2004 PEIR and 2013 Addendum. As such, complying with existing mitigation measures under the 2004 PEIR would ensure no new or increased solid waste impacts would occur compared with those previously identified. In conclusion, the currently proposed Rory M. Shaw Wetlands Park project would result in less than significant impacts associated with utilities and service systems, consistent with the findings of the 2004 PEIR and 2013 Addendum. **Upper Storm Drain System** The 2004 PEIR and 2020 Addendum found that implementation of the 2004 Storm Drains project and the 2020 Approved Upper Storm Drain System project could result in impacts to utilities during construction if existing utility lines are disturbed and found that this impact would be reduced to a less-than-significant level with implementation of mitigation measures. The 2004 PEIR and 2020 Addendum also found that the 2004 Storm Drains project and 2020 Approved Upper Storm Drain System project would not have any operational impacts to existing sewer or wastewater systems; would not require new or expanded water supply sources; and would have a minimal, and thus less than significant, increased demand for electricity and solid waste disposal. The Initial Study prepared in support of the 2013 Addendum determined that no changes to the utilities analysis in the 2004 PEIR were necessary for the 2013

Approved Storm Drain Project, and thus, this topic was not discussed in the 2013 Addendum.

Utilities that may be affected by construction of the Upper Storm Drain System project include water, sewer, electricity, gas, oil, telephone, cable, and railroad signal cables or conduits within Southern California Regional Rail Authority rail rights-of-way. Implementation of **Mitigation Measures U-1 through U-5** (see Appendix G - Sections 1.6, 2.7, and 3.8 of Attachment 2, MMRP), would minimize interference with existing lines and interruption of service, thus, impacts would be less than significant. These measures require identification of existing and proposed buried facilities for relocation or avoidance; notifying residents and businesses of service disruptions; excavating around utilities, including use of hand excavation where necessary, particularly to locate buried gas and electric utilities, to avoid damage and interference with utilities; implementation of programs to minimize solid waste generated during construction; and notifying the City of Los Angeles Bureau of Sanitation of the construction schedule and planned lane or road closures.

Similar to the 2004 Storm Drains project, 2013 Approved Storm Drain project, and 2020 Approved Upper Storm Drain System project, the currently proposed Upper Storm Drain System project would construct reinforced pipes, catch basins, and other drainage structures to collect and transfer stormwater runoff to minimize flooding and other issues related to stormwater run-off. By conveying stormwater to the planned Rory M. Shaw Wetlands Park, where the stormwater would be detained, treated, and conveyed to existing infiltration basins, the Upper Storm Drain System would contribute to increasing water supply for the community. No new or expanded entitlements are necessary as part of this currently proposed project, as it would not require the use of water, but rather would improve the overall storm drain system in the Sun Valley Watershed, the environmental effects of which are evaluated throughout this addendum. In conclusion, impacts to utilities and service systems from the currently proposed Upper Storm Drain System project would be less than significant, consistent with the findings of the 2004 PEIR, 2013 Addendum, and 2020 Addendum.

- Wildfire:

Rory M. Shaw Wetlands Park

Since certification of the 2004 PEIR and adoption of the 2013 Addendum, updates to the State CEQA Guidelines require more extensive wildfire analysis for projects located in or near State Responsibility Areas for firefighting or lands classified as Very High Fire Hazard Severity Zones (14 CCR 15000 et seq., as amended December 28, 2018). Wildfire hazards were not addressed in the 2004 PEIR or the 2013 Addendum. The Rory M. Shaw Wetlands Park project site is not located in a state responsibility area or in a state-designated fire hazard severity zone. The nearest state responsibility area is located approximately 17 miles to the west at the intersection of Ventura County and Los Angeles County Line, and the nearest very high fire hazard severity zone is located approximately 0.9 miles north of the project site, in the Verdugo Mountains (CalFire 2024). As such, the project site is not expected to be susceptible to wildfires and is not located within or near a wildfire hazard area or a state responsibility area. Development and operation of the Rory M. Shaw Wetlands Park project would not, therefore, expose people to significant risks related to wildfire hazards, nor would it exacerbate wildfire risks in the area.

While there are new guidelines for the evaluation of development projects and wildfire risk, this currently proposed project would not result in significant effects under the new guidelines, as demonstrated below.

The project site is not located within a designated Fire Hazard Severity Zone and is approximately 0.9 miles south of a Very High Fire Hazard Severity Zone. The project site and surrounding area is characterized as developed, and therefore has a lower potential to facilitate the spread of wildfires compared to vegetated areas. The currently proposed Rory M. Shaw Wetlands Park project would also comply or conform with the provisions of all applicable codes and ordinances related to emergency access. The project site and immediately surrounding area do not contain slopes that could help exacerbate the spread of wildfire. The areas upslope of the project site are developed with existing manufacturing uses. As such, the surrounding areas do not contain extensive amounts of vegetation or wildfire fuel. Therefore, it is not anticipated that the currently proposed Rory M. Shaw Wetlands Park project, due to slope, prevailing winds, and other factors, would exacerbate wildfire risks or expose people to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. No impact would occur.

As with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the proposed project would not require the installation or maintenance of roads, fuel breaks, power lines, or other utilities that would exacerbate fire risk. No impact would occur.

Under the existing conditions, the project site is undeveloped and potentially susceptible to landslides; construction of this currently proposed project would ensure modification of the gravel pit does not result in slope instability. Further, as with the 2004 Approved Wetlands Park project and 2013 Approved Wetlands Park project, the currently proposed Rory M. Shaw Wetlands Park project is intended to provide stormwater management and flood control improvements and would reduce runoff that contributes to flooding. The proposed project would not expose people or structures to downstream flooding or landslides as a result of runoff, post-fire slope instability, or drainage changes. As such, the currently proposed Rory M. Shaw Wetlands Park project would not result in any new significant impacts that were not previously identified in the 2004 PEIR and 2013 Addendum.

Upper Storm Drain System

As noted previously, updates to the State CEQA Guidelines require more extensive wildfire analysis than was required under either the 2004 PEIR, 2013 Addendum, or 2020 Addendum for projects located in or near State Responsibility Areas for firefighting or lands classified as Very High Fire Hazard Severity Zones (14 CCR 15000 et seq., as amended December 28, 2018). Wildfire hazards were not addressed in the 2004 PEIR, 2013 Addendum, or 2020 Addendum.

The currently proposed Upper Storm Drain System project is not located within a designated Fire Hazard Severity Zone and the surrounding area is characterized as developed, and therefore has a lower potential to facilitate the spread of wildfires compared to vegetated areas. The currently proposed Upper Storm Drain System project would also comply or conform with the provisions of all applicable codes and ordinances related to emergency access. The project site and immediately surrounding area do not contain slopes which

	could help exacerbate the spread of wildfire. The land uses surrounding phases 2 and 3 of the Upper Storm Drain System project are predominantly industrial while the land uses surrounding phase 4 are predominantly residential. As such, the surrounding areas do not contain extensive amounts of vegetation or wildfire fuel. Therefore, it is not anticipated that the currently proposed Upper Storm Drain System project, due to slope, prevailing winds, and other factors, would exacerbate wildfire risks or expose people to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. No new or greater impacts than were previously evaluated would occur, and no new mitigation is required. The Upper Storm Drain System is intended to provide stormwater management that would improve flood control in the area and would reduce runoff that contributes to flooding. The currently proposed Upper Storm Drain System project would not expose people or structures to downstream flooding or landslides as a result of runoff, post-fire slope instability, or drainage changes. As such, the Upper Storm Drain System project would not result in any new significant impacts that were not previously identified in the 2004 PEIR, 2013 Addendum, or 2020 Addendum.
	<u>Changes in Circumstance/New Information (State CEQA Guidelines Section 15162(a)(2)(3))</u> Since the certification of the 2004 PEIR and adoption of the 2013 Addendum and 2020 Addendum, no substantial changes related to each of the environmental topic areas have occurred. Similarly, the project site boundaries for both the Rory M. Shaw Wetlands Park and the Upper Storm Drain System are the same as described in the 2004 PEIR, 2013 Addendum, and 2020 Addendum. No topographical changes or other landform alterations have occurred that would fundamentally change the approach or conclusions of the environmental impact analysis in the 2004 PEIR, 2013 Addendum, and 2020 Addendum. While there have been changes in regulations that require consideration of environmental resource topics that were not evaluated in all or some of the prior documents, the analysis in this Addendum demonstrates that both the Rory M. Shaw Wetlands Park and the Upper Storm Drain System projects would not result in any significant impacts with respect to those topics. There are no other changes in regulations or design standards that have been implemented since certification of the 2004 PEIR and adoption of the 2013 Addendum and 2020 Addendum that would alter the conclusions or the environmental analysis. As such, there are no substantial changes with respect to circumstances under which the currently proposed Rory M. Shaw Wetlands Park and the Upper Storm Drain System projects would be undertaken, and there is no new information of substantial importance that has become available that would change the impact conclusions of the 2004 PEIR. The analysis in this Addendum includes consideration of the environmental resources and individual impact analysis questions in the most recent version of the Appendix G checklist, since it has been prepared after the CEQA Guidelines were amended in 2009 and 2018 (see below) in the interest of providing the public and decision makers with as much information on the environmental consequences as possible. However, the revisions to the analysis requirements presented in the checklist do not have an appreciable effect on the analysis or the impact conclusions for this project. In 2009 the California Natural Resources Agency adopted new guidelines requiring lead agencies to analyze GHGs under section 15064.4. As such, GHG impacts were not addressed in the 2004 PEIR. The 2013 Addendum's analysis found GHG impacts to be less than significant. In addition, other revisions incorporating the requirements of Senate Bill 743, which created a new process for analyzing transportation impacts under CEQA, were adopted in 2018. Under the new transportation guidelines, LOS, or automobile delay, will no longer be considered an environmental impact under CEQA. Rather, VMT is used to

assess the significance of transportation impacts. The new guidelines were implemented statewide on July 1, 2020. Additionally, since the certification of the 2004 PEIR, revisions to SCAQMD Rule 403 and the California Code of Regulations (CCR) (Title 13, CCR, Sections 2449 and 2485) have been made. These changes include updates to definitions and implementation of existing regulations referenced in **Mitigation Measures A-10 and A-11.** Compliance with the updated regulations referenced in the mitigation measures would be required upon implementation.

Another update involves incorporating the findings of a court case (*California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369), which specifies that CEQA generally requires analysis of the effects of a project on the environment, as opposed to the effects of the environment on a project (State CEQA Guidelines Section 15126.2).

Lastly, the Southern California Association of Governments has adopted a new Regional Transportation Plan since certification of the 2004 PEIR. This does not change the determinations made in the certified 2004 PEIR, as the growth projections for the City of Los Angeles have continued to increase and both the Rory M. Shaw Wetlands Park and the Upper Storm Drain System projects would not contribute to any ongoing population growth for the City of Los Angeles. The intent of the SVWMP is to provide flood control benefits through multipurpose solutions to areas that have already been developed with residential, commercial, and industrial uses. The 2004 PEIR found that implementation of the SVWMP would not include construction of new homes, businesses, or potentially growth-inducing infrastructure such as roads or potable water or wastewater systems. While some elements of the SVWMP, including the Rory M. Shaw Wetlands Park project, would increase groundwater infiltration and therefore the volume of available groundwater, this was not considered growth inducing because the plan does not propose construction of new potable water treatment or distribution systems. The 2013 Addendum and 2020 Addendum confirmed that the 2013 Approved Project and 2020 Approved Project were not considered growth-inducing, consistent with the finding of the 2004 PEIR.

Previously Adopted Applicable Mitigation Measures

Rory M. Shaw Wetlands Park

The following adopted mitigation measures, included within the 2004 PEIR and carried over in the 2013 Addendum and 2020 Addendum, are applicable to the currently proposed Rory M. Shaw Wetlands Park project. See Appendix G of Attachment 2, MMRP for the SVWMP.

- Mitigation Measure A-1
- Mitigation Measure A-2
- Mitigation Measure A-3
- Mitigation Measure A-4
- Mitigation Measure A-5
- Mitigation Measure A-6
- Mitigation Measure A-7
- Mitigation Measure A-8
- Mitigation Measure A-9
- Mitigation Measure A-10
- Mitigation Measure A-11
- Mitigation Measure A-12
- Mitigation Measure A-13
- Mitigation Measure A-14
- Mitigation Measure W-1
- Mitigation Measure W-4
- Mitigation Measure W-5
- Mitigation Measures N-1
- Mitigation Measures N-2
- Mitigation Measures N-3
- Mitigation Measures N-4
- Mitigation Measure P-1
- Mitigation Measure P-2
- Mitigation Measure P-3
- Mitigation Measure P-4
- Mitigation Measure P-5
- Mitigation Measure P-6
- Mitigation Measure P-7

	• Mitigation Measure B-4 • Mitigation Measure B-5 • Mitigation Measure C-2 • Mitigation Measure C-3 • Mitigation Measure C-4 • Mitigation Measure C-5 • Mitigation Measure G-1 • Mitigation Measure H-1 • Mitigation Measure H-2 • Mitigation Measure H-3 • Mitigation Measure P-8 • Mitigation Measure P-9 • Mitigation Measure P-10 • Mitigation Measure P-11 • Mitigation Measure P-12 • Mitigation Measure T-1 • Mitigation Measure U-1 • Mitigation Measure U-2 • Mitigation Measure U-3 • Mitigation Measure U-4 • Mitigation Measure U-5
	<u>Upper Storm Drain System</u> The following adopted mitigation measures, included within the 2004 PEIR and carried over in the 2013 Addendum and 2020 Addendum, are applicable to the currently proposed Upper Storm Drain System project. See Appendix G of Attachment 2, MMRP for the SVWMP. • Mitigation Measure B-5 • Mitigation Measure C-3 • Mitigation Measure C-4 • Mitigation Measure H-1 • Mitigation Measure H-2 • Mitigation Measure H-3 • Mitigation Measure W-1 • Mitigation Measures N-1 • Mitigation Measures N-2 • Mitigation Measures N-3 • Mitigation Measures N-4 • Mitigation Measure T-2 • Mitigation Measure T-3 • Mitigation Measure T-4 • Mitigation Measure T-5 • Mitigation Measure T-6 • Mitigation Measure T-7 • Mitigation Measure U-1 • Mitigation Measure U-2 • Mitigation Measure U-3 • Mitigation Measure U-4 • Mitigation Measure U-5
FINDING:	The currently proposed Rory M. Shaw Wetlands Park project and the currently proposed Upper Storm Drain System project would not result in new or substantially more severe significant impacts due to modifications, altered circumstances, or substantially important new information and would not require additional mitigation measures. As such, consistent with Public Resources Code Section 21166 and State CEQA Guidelines Section 15162 and 15163, the currently proposed Rory M. Shaw Wetlands Park and the Upper Storm Drain System projects would not result in additional or more severe significant impacts that would require preparation of a subsequent EIR or supplement to the 2004 PEIR and preparation of an Addendum is the appropriate CEQA document, consistent with State CEQA Guidelines, Section 15164.
ADDENDUM PREPARATION:	This Addendum to the SVWMP PEIR was prepared by the following staff at the District and at Dudek, the District's environmental consultant. **District:** Darian Wong, Environmental Engineering Specialist **Dudek:** Katherine Waugh, Senior Project Manager Jason Reynolds, Principal Jessica Booth, CEQA Analyst Elena Nuno, Air Quality Specialist

	Keshia Montifolca, Archaeologist Fallin Steffen, Architectural Historian
REFERENCES CITED	California Department of Conservation (DOC). 2024. California Important Farmland Finder. Accessed October 24, 2024. Available: https://maps.conservation.ca.gov/DLRP/CIFF/ California Department of Forestry and Fire Protection (CalFire). 2024. Fire Hazard Severity Zones in State Responsibility Area. Effective April 1 2024. Accessed November 12, 2024. Available: https://calfire-forestry.maps.arcgis.com/apps/webappviewer/ California Department of Toxic Substances Control (DTSC) 2024. Envirostor. Accessed October 24, 2024. Available: https://www.envirostor.dtsc.ca.gov/public/ California Department of Transportation (CalTrans). 2013. Transportation and Construction Vibration Guidance Manual. Division of Environmental Analysis, Environmental Engineering, Hazardous Waste, Air, Noise, Paleontology Office. September 2013 Dudek. 2024. Historic Properties Identification Report for The Rory M. Shaw Wetlands Park and Sun Valley Watershed Management Plan Upper Storm Drain System Phases 2 – 4 Projects, Los Angeles County, California. December 2024. HistoricAerial.com. 2024. Aerial maps of project site between 2000 and 2022. Accessed November 21, 2024. Los Angeles County Flood Control District. 2004. Sun Valley Watershed Management Plan Program EIR. May 2004. Prepared by MWH on behalf of Los Angeles County. State Clearinghouse Number 2002111051. Available: dpw.lacounty.gov/wmd/svw/docs/Program_EIR.pdf Los Angeles County Flood Control District. 2013. Addendum to a Program Environmental Impact Report Sun Valley Watershed Management Plan. October 8, 2013. State Clearinghouse Number 2002111051. Available: https://www.dpw.lacounty.gov/wmd/svw/docs/2013_Addendum.pdf Los Angeles County Flood Control District. 2020. Addendum to the Final Sun Valley Watershed Management Plan EIR (Sun Valley Watershed Upper Storm Drain System). November 10, 2020. Prepared by Impact Sciences on behalf of Los Angeles County. State Clearinghouse Number 2002111051. Available: dpw.lacounty.gov/wmd/svw/docs/SV-Upper-SD-System-Addendum-2020.pdf State Water Resources Control Board (SWRCB). 2024. Geotracker. Accessed October 24, 2024. Available: https://geotracker.waterboards.ca.gov/

Sun Valley Watershed Management Plan

Addendum to the Program Environmental Impact Report

Attachment 3: Air Quality, Greenhouse Gases and Energy Analysis for the Rory M. Shaw Wetlands Park and Upper Storm Drain Project

AIR QUALITY, GREENHOUSE GASES, AND ENERGY ANALYSIS FOR THE RORY M SHAW WETLANDS PROJECT AND UPPER STORM DRAIN PROJECT

1 Project Understanding

Rory M Shaw Wetlands Park

The Rory M Shaw Wetlands Park project includes conversion of a 46-acre, non-operating inert construction debris landfill into a constructed wetlands park that would provide flood control, habitat, recreation, and water quality enhancements to the Sun Valley community, including a 21-acre detention pond, 10 acres of wetlands, and 15 acres of recreational space.

The currently proposed project would capture stormwater runoff collected from upstream drainage areas to alleviate flooding in the Sun Valley community. The proposed design would provide a water conservation benefit through the reuse of stormwater. Runoff would be temporarily stored in a detention pond, routed through wetlands for natural treatment of pollutants, and pumped into existing underground infiltration basins at the adjacent Sun Valley Park. The currently proposed project would provide up to 15 acres of recreational open space. The proposed detention pond would have a footprint of approximately 21 acres and a maximum depth of 50 feet, with a total storage capacity of 385 acre-feet. The proposed wetland would provide sustainable habitat for various plant and animal species, and a natural water treatment system for removing pollutants from the collected stormwater runoff. The treated stormwater would be pumped to the existing adjacent Sun Valley Park infiltration basins for groundwater recharge.

Construction activities of the currently proposed project are divided into three phases: Phase 1, Site Investigations and Demolition; Phase 2, Crushing and Grading; and Phase 3, Above Ground Improvements. Phase 1 was completed in 2017. Phase 2 would include the following construction components: mobilization, demolition, hauling, over excavation, deep dynamic compaction (DDC), rough grading, off-site components (e.g., stockpiling, staging, and/or crushing), crushing activities, and utility installation. Phase 3 would include construction of the detention pond, wetlands, utility installation, a new passive methane system, recreational components, and landscaping. Proposed revised components associated with the currently proposed project include DDC activities over the detention pond footprint; the hauling of excess materials offsite; addition of a passive methane treatment system; an on- and off-site crushing component; and off-site staging, stockpiling, and crushing. Additionally, although the project site boundary has not changed, the aboveground components of the currently proposed project have been slightly altered in location.

Upper Storm Drain System

The Upper Strom Drain System was one of the project components identified in the 2004 EIR. One of the addenda to the 2004 EIR completed in 2020 evaluated all 4 phases of the storm drain network improvements. The first

phase has been completed and the Los Angeles County Public Works (Public Works) is preparing to initiate work on phases 2 - 4. The extent of the improvements has very slightly decreased, but the estimated construction schedule has lengthened. In Phase 2, the current main line length is 600 linear feet (lf) less than what was considered in the addendum (originally 12,600 lf). In Phase 3, the current tunnel near Metro tracks is 40 feet shorter than what was considered in the addendum (112 lf originally, now 71 lf). No changes to the storm drain lengths of 6,500 lf of main line and 600 lf of laterals are proposed. In Phase 4, no changes to the 66-inch reinforced concrete pipe (RCP) and 2.5-foot by 10.5-foot reinforced concrete box or the 5,900 lf of storm drain.

The purpose of this analysis is to evaluate whether the currently proposed project would result in new significant effects or an increase in the severity of previously identified significant effects in the categories of air quality, greenhouse gas (GHG) emissions, and energy. This memorandum also discusses changes with respect to circumstances under which the project will be undertaken and new information that has become available relative to air quality, GHG emissions, and energy that could change the impact conclusions in the 2004 PEIR.

2 General Analysis and Methodology

The project is located within the South Coast Air Basin (SCAB) and is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD), which has jurisdiction over the County where the project is located. The California Emissions Estimator Model (CalEEMod) Version 2022 was used to estimate emissions from construction of the project (CAPCOA 2022). CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with construction activities and operation of a variety of land use projects, such as residential, commercial, and industrial facilities. CalEEMod input parameters, including the land use type used to represent the project and its size, construction schedule, and anticipated use of construction equipment, were based on information provided by Public Works or default model assumptions if project specifics were unavailable. Construction duration of the entire project (rough grading and above-ground improvements) was assumed to commence in March 2026 through October 2035.

Table 1 provides a summary of the anticipated construction schedule and the associated on-road and offroad vehicles and equipment for each project component.

Table 1 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	Total Work Days	One-way Trips			Equipment	Quantity	Hours Per Day
				Daily Workers	Daily Vendor Trucks	Daily Haul Trucks			
Rory M Shaw Wetlands									
Phase 2									
Mobilization	4/3/2028	6/2/2028	45	14	2	0	Generator Sets	2	8
							Off-Highway Trucks	5	8
Demolition	6/5/2028	8/4/2028	44	30	12	0	Aerial Lifts	1	8
							Off-Highway Trucks	15	8
							Air Compressors	2	8
							Concrete/Industrial Saws	3	8
							Excavators	1	8
							Other Construction Equipment (Brush Chipper)	1	8
							Sweepers/Scrubbers	2	8
							Tractors/Loaders/Backhoes	3	8
Site Preparation	8/7/2028	9/5/2028	22	20	6	0	Tractors/Loaders/Backhoes	3	8
							Off-Highway Trucks	2	8
							Excavators	1	8
Grading and Deep Dynamic Compaction	9/6/2028	3/22/2032	924	30	8	0	Cranes	1	8
							Off Highway Trucks	10	8
							Forklifts	1	8
							Generator Sets	2	8
							Rubber Tired Dozers	2	8
							Rollers	2	8

Table 1 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	Total Work Days	One-way Trips			Equipment	Quantity	Hours Per Day
				Daily Workers	Daily Vendor Trucks	Daily Haul Trucks			
							Scrapers	1	8
							Tractors/Loaders/Backhoes	3	8
Haul Excess Material	9/6/2028	3/22/2032	924	30	8	70	Excavators	2	8
							Rubber Tired Dozers	1	8
							Generator Sets	2	8
							Sweepers/Scrubbers	2	8
							Tractors/Loaders/Backhoes	3	8
Crush Concrete	9/6/2028	3/22/2032	924	14	4	0	Excavators	4	8
							Off Highway Trucks	8	8
							Other Construction Equipment (screens and conveyer belts)	4	8
							Other Industrial Equipment (Jaw and impact crushers)	4	8
							Tractors/Loaders/Backhoes	4	8
Drainage	3/23/2032	5/21/2032	44	14	4	0	Tractors/Loaders/Backhoes	1	8
Clean up	5/24/2032	6/22/2032	22	10	0	0	Sweepers/Scrubbers	1	8
							Flat-bed Trucks	5	8
Phase 3									
Mobilization	10/3/2033	12/1/2033	44	14	2	0	Generator Sets	2	8
							Off-Highway Trucks	5	8
Passive Methane System construction (Trenching)	12/5/2033	3/6/2034	66	6	0	0	Bore/Drill Rigs	1	7
							Tractors/Loaders/Backhoes	1	8
Trenching for Utilities (Trenching)	3/7/2034	10/6/2034	154	10	0	0	Tractors/Loaders/Backhoes	2	8
							Trenchers	2	8
Recreational Components	10/9/2034	5/10/2035	154	50	10	0	Cranes	1	8
							Forklifts	3	8

Table 1 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	Total Work Days	One-way Trips			Equipment	Quantity	Hours Per Day
				Daily Workers	Daily Vendor Trucks	Daily Haul Trucks			
(Building Construction)							Generator Sets	1	8
							Tractors/Loaders/Backhoes	3	8
							Welders	1	8
Recreational Components (Paving)	5/11/2035	7/26/2035	55	16	0	0	Pavers	2	8
							Paving Equipment	2	8
							Rollers	2	8
Recreational Components (Architectural Coating)	7/27/2035	10/11/2035	55	16	0	0	Air Compressors	3	6
Upper Storm Drain									
Phase 2									
Demolition (Demolition)	7/25/2028	11/16/2028	83	30	0	14	Excavators	3	8
							Rubber Tired Loaders	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Site Preparation (Site Preparation)	11/17/2028	1/12/2029	41	0	0	64			
Trenching (Trenching)	1/15/2029	8/16/2030	415	18	14	0	Excavators	2	8
							Rubber Tired Loaders	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Storm Drain Install (Building Construction)	8/19/2030	6/3/2031	207	38	0	0	Air Compressors	2	8
							Cranes	1	8
							Generator Sets	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Paving	6/4/2031	9/26/2031	83	24	0	0	Air Compressors	2	8

Table 1 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	Total Work Days	One-way Trips			Equipment	Quantity	Hours Per Day
				Daily Workers	Daily Vendor Trucks	Daily Haul Trucks			
(Paving)							Excavators	1	8
							Generator Sets	2	8
							Paving Equipment	1	8
							Plate Compactors	1	8
							Rollers	2	8
Phase 3									
Demolition (Demolition)	7/8/2026	8/21/2026	33	20	0	6	Excavators	3	8
							Rubber Tired Loaders	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Site Preparation (Site Preparation)	8/24/2026	9/14/2026	16	0	0	30			
Trenching (Trenching)	9/15/2026	4/30/2027	164	18	14	0	Excavators	2	8
							Rubber Tired Loaders	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Storm Drain Install (Building Construction)	5/3/2027	8/24/2027	82	38	0	0	Air Compressors	2	8
							Cranes	1	8
							Generator Sets	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Paving (Paving)	8/25/2027	10/8/2027	33	24	0	0	Air Compressors	2	8
							Excavators	1	8
							Generator Sets	2	8
							Paving Equipment	1	8
							Plate Compactors	1	8
							Rollers	2	8

Table 1 Construction Scenario Assumptions

Construction Phase	Start Date	End Date	Total Work Days	One-way Trips			Equipment	Quantity	Hours Per Day
				Daily Workers	Daily Vendor Trucks	Daily Haul Trucks			
Phase 4									
Demolition (Demolition)	9/26/2031	12/22/2031	62	20	0	8	Excavators	3	8
							Rubber Tired Loaders	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Site Preparation (Site Preparation)	12/23/2031	2/3/2032	31	0	0	32			
Trenching (Trenching)	2/4/2032	4/11/2033	309	18	14	0	Excavators	2	8
							Rubber Tired Loaders	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Storm Drain Install (Building Construction)	4/12/2033	11/11/2033	154	38	0	0	Air Compressors	2	8
							Cranes	1	8
							Generator Sets	2	8
							Skid Steer Loaders	1	8
							Tractors/Loaders/Backhoes	2	8
Paving (Paving)	11/14/2033	2/7/2034	62	24	0	0	Air Compressors	2	8
							Excavators	1	8
							Generator Sets	2	8
							Paving Equipment	1	8
							Plate Compactors	1	8
							Rollers	2	8

3 Air Quality Assessment

The 2004 PEIR's assessment of criteria air pollutant emissions from construction activities was documented in Section 4.1.3.1 (Construction Impacts). Based upon the analysis, potentially significant air quality impacts would occur for all phases of the project. With implementation of mitigation measures, A-1 through A-14 (detailed in Section 4.1.4, Mitigation Measures), construction-related air quality impacts were determined to be significant and unavoidable. The 2004 PEIR's assessment of operational air quality impacts determined that criteria air pollutant emissions from project operation would be less than significant; therefore, no mitigation was proposed for operational air quality impact. The 2013 Addendum and the 2020 Addendum found no new air quality impacts.

3.1 Thresholds of Significance

The significance criteria used to evaluate impacts to air quality in the certified 2004 PEIR were based on the version of the CEQA Guidelines, Appendix G, that was in place at the time of the 2004 PEIR. These criteria are listed below.

A significant impact related to air quality would occur if the project would:

A. Conflict with or obstruct implementation or the applicable air quality plan.

B. Violate any ambient air quality standards or contribute substantially to an existing air quality violation.

C. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).

D. Expose sensitive receptors to substantial pollutants concentrations.

E. Create objectionable odors affecting a substantial number of people.

Since the time of the 2004 PEIR, updates to the CEQA Guidelines have gone into effect. These updates included revisions to the air quality significance threshold questions in Appendix G of the CEQA Guidelines. The thresholds that are currently in place are listed below.

A significant impact related to air quality would occur if the project would:

A. Conflict with or obstruct implementation of the applicable air quality plan.

B. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.

C. Expose sensitive receptors to substantial pollutant concentrations.

D. Result in other emissions (such as those leading to odors) that would adversely affect a substantial number of people.

The analysis in this memo relies on the most recent version of the Appendix G thresholds, since this memo is prepared after the CEQA amendments went into effect and in the interest of providing the public and decision makers with as much information on the environmental consequences as possible. However, the revisions to the thresholds were minimal, as shown above, and do not have an appreciable effect on the analysis or the impact conclusions

for this project. The revisions primarily involved combining the previous Thresholds B and C into a single threshold and expanding Threshold D to address "other emissions," rather than just odors.

Appendix G of the CEQA Guidelines indicates that, where available, the significance criteria established by the applicable air quality management district or pollution control district may be relied upon to determine whether a project would have a significant impact on air quality. The County uses SCAQMD's thresholds to evaluate proposed development projects and to assess the significance of quantifiable impacts. The potential air quality impacts of a project are, therefore, evaluated according to the thresholds adopted by the SCAQMD in connection with its CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and SCAQMD guidance. These thresholds have not changed since the time of the 2004 PEIR. The approach and significance criteria used for each of the thresholds listed above is described as follows:

Threshold A: The evaluation of whether the currently proposed project would conflict with or obstruct implementation of the applicable air quality plan is based on the SCAQMD CEQA Air Quality Handbook (SCAQMD 1993), Chapter 12, Sections 12.2 and 12.3, which sets forth a number of criteria for this evaluation. The first criterion assesses if a project would result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay the timely attainment of air quality standards of the interim emissions reductions specified in the air quality management plan (AQMP). The second criterion is if a project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

Threshold B: To evaluate the potential for the currently proposed project to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard, this analysis applies the SCAQMD's construction and operational criteria pollutants mass daily thresholds, as shown in Table 2. Project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 1 would be exceeded.

A project would potentially result in a cumulatively considerable net increase in O_3, which is a nonattainment pollutant, if the project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds. These emissions-based thresholds for O_3 precursors are intended to serve as a surrogate for an "ozone significance threshold" (i.e., the potential for adverse O_3 impacts to occur). This approach is used because O_3 is not emitted directly, and the effects of an individual project's emissions of O_3 precursors (VOC and NO_x) on O_3 levels in ambient air cannot be reliably or meaningfully determined through air quality models or other quantitative methods for an individual project.

Table 2. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	**Construction (pounds per day)**	**Operation (pounds per day)**
VOCs	75	55
NO_x	100	55
CO	550	550
SO_x	150	150
PM_{10}	150	150
$PM_{2.5}$	55	55
Lead[a]	3	3

Table 2. SCAQMD Air Quality Significance Thresholds

TACs and Odor Thresholds	
TACs[b]	Maximum incremental cancer risk ≥10 in 1 million Cancer Burden >0.5 excess cancer cases (in areas ≥1 in 1 million) Chronic and acute hazard index ≥1.0 (project increment)
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402
Ambient Air Quality Standards for Criteria Pollutants[c]	
NO_2 1-hour average NO_2 annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.030 ppm (state) and 0.0534 ppm (federal)
CO 1-hour average CO 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)
SO_2 1-hour average SO_2 24-hour average	0.25 ppm (state) and 0.075 ppm (federal – 99th percentile) 0.04 ppm (state)
PM_{10} 24-hour average PM_{10} annual average	10.4 µg/m³ (construction)[d] 2.5 µg/m³ (operation) 1.0 µg/m³
$PM_{2.5}$ 24-hour average	10.4 µg/m³ (construction)[d] 2.5 µg/m³ (operation)

Source: SCAQMD 2023.
Notes: SCAQMD = South Coast Air Quality Management District; VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; TAC = toxic air contaminant; NO_2 = nitrogen dioxide; SO_2 = sulfur dioxides; ppm = parts per million; µg/m³ = micrograms per cubic meter.
[a] The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the currently proposed project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.
[b] TACs include carcinogens and non-carcinogens.
[c] Ambient air quality standards for criteria pollutants based on SCAQMD Rule 1303, Table A-2, unless otherwise stated.
[d] Ambient air quality threshold based on SCAQMD Rule 403.

Threshold C: The assessment of the currently proposed project's potential to expose sensitive receptors to substantial pollutant concentrations includes a localized significance threshold (LST) analysis, as recommended by the SCAQMD, to evaluate the potential for localized air quality impacts to affect sensitive receptors in the immediate vicinity of the currently proposed project during construction and operation. For project sites of 5 acres or less, the SCAQMD LST Methodology (SCAQMD 2008a) includes lookup tables that can be used to determine the maximum allowable daily emissions that would satisfy the localized significance criteria (i.e., the emissions would not cause an exceedance of the applicable concentration limits for NO_2, CO, PM_{10}, and $PM_{2.5}$) without performing project-specific dispersion modeling.

The LST significance thresholds for NO_2 and CO represent the allowable increase in concentrations above background levels in the vicinity of a project that would not cause or contribute to an exceedance of the relevant ambient air quality standards, while the threshold for PM_{10} represents compliance with Rule 403 (Fugitive Dust). The LST significance threshold for $PM_{2.5}$ is intended to ensure that construction emissions do not contribute substantially to existing exceedances of the $PM_{2.5}$ ambient air quality standards. The allowable emission rates depend on the following parameters:

- Source receptor area (SRA) in which the project is located
- Size of the project site

- Distance between the project site and the nearest sensitive receptor (e.g., residences, schools, hospitals)

The Project site is within SRA, 7 (East San Fernando Valley). The SCAQMD provides guidance for applying California Emissions Estimator Model (CalEEMod) to the LSTs. LST pollutant screening level concentration data is currently published for 1-, 2-, and 5-acre sites for varying distances. The maximum number of acres disturbed on the peak day was estimated using the "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (SCAQMD 2011), which provides estimated acres per 8-hour day for crawler tractors, graders, rubber-tired dozers, and scrapers. The currently proposed project would disturb approximately 4 acres based on the most intense construction equipment load. LSTs for a 4-acre site were interpolated based on the LSTs for 2-acre site and 5-acre site.

The nearest sensitive receptors are Sun Valley Park and single-family residences approximately 40 feet from the project's eastern boundary and approximately 80 feet from the southern boundary. Because the nearest sensitive receptor is located approximately 40 feet from the project site, the LST receptor distance was assumed to be 82 feet (25 meters), which is the closest available distance provided by the SCAQMD look up tables. 82 feet is also the shortest receptor distance available in the SCAQMD look up tables.

The construction LST values from the SCAQMD lookup tables for Source Receptor Area (SRA) 7, East San Fernando Valley, for a 4-acre construction site and a receptor distance of 25 meters are shown in Table 2.

Table 3. Localized Significance Thresholds for Source Receptor Area 7 (East San Fernando Valley)

Pollutant	Threshold (pounds per day)
NO_2	152.67
CO	1,218
PM_{10}	11.7
$PM_{2.5}$	6.7

Source: SCAQMD 2008a.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter.
LST thresholds were determined based on the values for 3.5-acre site at a distance of 25 meters from the nearest sensitive receptor.

In addition to the construction LST assessment, the analysis of the potential for the currently proposed project to expose sensitive receptors to substantial pollutant concentrations also evaluates potential health effects associated with CO hotspots, toxic air contaminants (TACs), and criteria air pollutants.

Threshold D: The potential for a project to result in other emissions, specifically an odor impact (CEQA Guidelines, Appendix G, Threshold 4), is based on a project's land-use types and anticipated construction activity, and the potential for a project to create an odor nuisance pursuant to SCAQMD Rule 402.

3.2 Impact Analysis

3.2.1 Would the project conflict with or obstruct implementation of the applicable air quality plan?

The project site is within the jurisdiction of the SCAQMD. The applicable air quality plan for the project site is the SCAQMD's 2022 AQMP. The regional emissions inventory for the SCAB is compiled by the SCAQMD and Southern California Association of Governments (SCAG). The SCAQMD has established criteria for determining consistency with the AQMP in Chapter 12, Sections 12.2 and 12.3, of the SCAQMD's CEQA Air Quality Handbook (SCAQMD 1993). The criteria are as follows:

- **Consistency Criterion No. 1:** The project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards of the interim emissions reductions specified in the AQMP.
- **Consistency Criterion No. 2:** The project will not exceed the assumptions in the AQMP or increments based on the year of Project buildout and phase.

Rory M Shaw Wetlands Project

Regarding Consistency Criterion No.1, the response to Impact 3.2.2, below, evaluates the potential for the project component to violate any air quality standard or contribute substantially to an existing or projected air quality violation, which applies the SCAQMD mass daily construction and operational thresholds.

As shown in Table 4, the currently proposed project's construction emissions would not exceed the SCAQMD's daily thresholds except for NO_x. However, the 2004 Project EIR also exceed the SCAQMD's daily threshold for NO_x. Additionally, the currently proposed project would result in higher peak daily CO emissions than estimated in the 2004 Project EIR, but CO emissions would not exceed the SCAQMD's daily thresholds. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Regarding Consistency Criterion No. 2, while striving to achieve the NAAQS for O_3 and $PM_{2.5}$ and the CAAQS for O_3, PM_{10}, and $PM_{2.5}$ through a variety of air quality control measures, the 2022 AQMP also accommodates planned growth in the SCAB. Projects are considered consistent with and would not conflict with or obstruct implementation of the 2022 AQMP, if the growth in socioeconomic factors (e.g., population, employment) is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook). The currently proposed project component does not include any housing and construction employment could be reasonably served by the existing population, as such it would not result in population growth and employment that was not accounted for in regional plans.

Based on these considerations, impacts related to the currently proposed project component's potential to conflict with or obstruct implementation of the applicable air quality plan would remain less than significant. As such, the currently proposed project would not result in new significant environmental effects or in a substantial increase in the severity of a previously identified significant effect relative to consistency with an applicable air quality plan. Impacts would be less than significant for the currently proposed project. No new significant impacts would occur compared to the 2004 Project, and no previously identified significant impacts would substantially increase in severity.

Upper Storm Drain Project

Regarding Consistency Criterion No.1, the response to Impact 3.2.2, below, evaluates the potential for the project component to violate any air quality standard or contribute substantially to an existing or projected air quality violation, which applies the SCAQMD mass daily construction and operational thresholds.

As shown in Table 5, the currently proposed project's construction emissions would not exceed the SCAQMD's daily thresholds, nor would they exceed the 2004 and 2020 emissions estimates. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Regarding Consistency Criterion No. 2, while striving to achieve the NAAQS for O_3 and $PM_{2.5}$ and the CAAQS for O_3, PM_{10}, and $PM_{2.5}$ through a variety of air quality control measures, the 2022 AQMP also accommodates planned growth in the SCAB. Projects are considered consistent with and would not conflict with or obstruct implementation of the 2022 AQMP, if the growth in socioeconomic factors (e.g., population, employment) is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook). The currently proposed project component does not include any housing and construction employment could be reasonably served by the existing population, as such it would not result in population growth and employment that was not accounted for in regional plans.

Based on these considerations, impacts related to the currently proposed project component's potential to conflict with or obstruct implementation of the applicable air quality plan would remain less than significant. As such, the currently proposed project would not result in new significant environmental effects or in a substantial increase in the severity of a previously identified significant effect relative to consistency with an applicable air quality plan. Impacts would be less than significant for the currently proposed project. No new significant impacts would occur compared to the 2004 Project, and no previously identified significant impacts would substantially increase in severity.

Combined Project

Regarding Consistency Criterion No.1, the response to Impact 3.2.2, below, evaluates the potential for the project component to violate any air quality standard or contribute substantially to an existing or projected air quality violation, which applies the SCAQMD mass daily construction and operational thresholds.

As shown in Table 6, the currently proposed combined project component's construction emissions would not exceed the SCAQMD's daily thresholds except for NO_x. However, the 2004 Project EIR also exceed the SCAQMD's daily threshold for NO_x. Additionally, the combined project component's construction emissions would not exceed the 2004 estimates. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Regarding Consistency Criterion No. 2, while striving to achieve the NAAQS for O_3 and $PM_{2.5}$ and the CAAQS for O_3, PM_{10}, and $PM_{2.5}$ through a variety of air quality control measures, the 2022 AQMP also accommodates planned growth in the SCAB. Projects are considered consistent with and would not conflict with or obstruct implementation of the 2022 AQMP, if the growth in socioeconomic factors (e.g., population, employment) is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook). The currently proposed project component does not include any housing and construction

employment could be reasonably served by the existing population, as such it would not result in population growth and employment that was not accounted for in regional plans.

The Los Angeles County 2035 General Plan (General Plan) land use designation for the Project site is Residential 2 (H2), which would allow for development of the project as currently proposed. As such, the Project would be consistent with the underlying assumptions within the AQMP.

Based on these considerations, impacts related to the currently proposed project component's potential to conflict with or obstruct implementation of the applicable air quality plan would remain less than significant. As such, the currently proposed project would not result in new significant environmental effects or in a substantial increase in the severity of a previously identified significant effect relative to consistency with an applicable air quality plan. Impacts would be less than significant for the currently proposed project. No new significant impacts would occur compared to the 2004 Project, and no previously identified significant impacts would substantially increase in severity.

3.2.2 Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

CalEEMod Version 2022 was used to estimate emissions from construction of the currently proposed project components. Proposed construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, minimal soil disturbance, and VOC off-gassing from application of asphalt and paint) and off-site sources (i.e., on-road vendor trucks and worker vehicle trips). Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. PM_{10} and $PM_{2.5}$ emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The currently proposed project would be required to comply with the SCAQMD Rule 403 to control dust emissions generated during any dust-generating activities. Additionally, the project would comply with SCAQMD Rule 1157 during concrete crushing activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas three times per day, with additional watering depending on weather conditions. The currently proposed project would involve application of architectural coating (e.g., paint and other finishes) for painting the currently proposed project. The contractor is required to procure architectural coatings from a supplier that complies with the requirements of the SCAQMD's Rule 1113 (Architectural Coatings). Mitigation measures A1 – A14 from the 2004 PEIR were also captured in the emissions estimates when reductions were quantifiable.

Rory M Shaw Wetlands Project

Construction

Table 4 presents the estimated maximum daily construction emissions generated during construction of the currently proposed Rory M Shaw Wetlands Park Project. Details of the emission calculations are provided in Attachment A.

Table 4 Rory M Shaw Wetlands Park Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2004 Project						
2004 Project Maximum[1]	27	161	113	14	14	14
Currently Proposed Project						
Daily Summer (Maximum)						
2028	15.35	109.65	134.33	0.39	11.83	6.92
2029	15.05	103.72	132.95	0.39	11.58	6.69
2030	14.71	100.03	132.62	0.39	11.44	6.56
2031	14.41	95.68	131.52	0.39	11.31	6.44
2032	6.37	9.68	16.26	0.06	0.49	0.36
2033	0.00	0.00	0.00	0.00	0.00	0.00
2034	0.25	2.30	4.90	0.01	0.17	0.07
2035	7.45	8.22	15.73	0.03	0.94	0.36
Daily Winter (Maximum)						
2028	18.51	15.34	109.93	133.73	11.83	6.92
2029	18.12	15.04	104.00	132.35	11.58	6.69
2030	17.72	14.70	100.31	132.07	11.44	6.56
2031	17.37	14.41	95.97	131.03	11.31	6.44
2032	16.94	14.05	90.92	128.42	11.06	6.21
2033	2.75	2.30	9.78	16.02	0.58	0.39
2034	1.24	1.05	8.47	15.62	0.95	0.37
2035	7.51	7.45	8.25	15.45	0.94	0.36
Daily Maximum	**15.35**	**109.93**	**134.33**	**0.39**	**11.83**	**6.92**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**Yes**	**No**	**No**	**No**	**No**
2004 Project Exceeded?	**No**	**No**	**Yes**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Attachment A for complete results.

[1] **Source:** 2004 PEIR – Table 4.1-5B Strathern Pit Site

As shown in Table 4, the currently proposed project's construction emissions would not exceed the SCAQMD's daily thresholds except for NO_x. However, the 2004 Project EIR also exceed the SCAQMD's daily threshold for NO_x. Additionally, the currently proposed project would result in higher peak daily CO emissions than estimated in the 2004 Project EIR but CO emissions would not exceed the SCAQMD's daily thresholds. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

The currently proposed project would implement Mitigation Measure A-14 from the 2004 EIR and require cleaner equipment in the form of Tier 4 construction equipment for the construction of the Rory M Shaw Wetlands Park Project. The mitigated emissions are shown in Table 5.

Table 5 Rory M Shaw Wetlands Park Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Mitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2004 Project						
2004 Project Maximum[1]	27	161	113	14	14	14
Currently Proposed Project						
Daily Summer (Maximum)						
2028	5.63	42.65	190.83	0.39	9.03	4.39
2029	5.59	41.69	190.36	0.39	9.00	4.36
2030	5.55	41.01	190.00	0.39	8.99	4.35
2031	5.50	40.32	189.68	0.39	8.98	4.35
2032	6.31	4.10	34.39	0.06	0.26	0.16
2033	0.00	0.00	0.00	0.00	0.00	0.00
2034	0.09	0.79	5.17	0.01	0.14	0.04
2035	7.25	3.24	18.16	0.03	0.82	0.25
Daily Winter (Maximum)						
2028	5.63	42.92	190.23	0.39	9.03	4.39
2029	5.58	41.97	189.75	0.39	9.00	4.36
2030	5.54	41.29	189.46	0.39	8.99	4.35
2031	5.49	40.60	189.18	0.39	8.98	4.35
2032	6.31	39.91	188.93	0.39	8.97	4.34
2033	0.86	4.91	34.31	0.06	0.39	0.23
2034	0.47	3.28	17.96	0.03	0.82	0.25
2035	7.25	3.27	17.88	0.03	0.82	0.25
Daily Maximum	**7.25**	**42.92**	**190.83**	**0.39**	**9.03**	**4.39**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
2004 Project Exceeded?	**No**	**No**	**Yes**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Attachment A for complete results.
[1] **Source:** 2004 PEIR – Table 4.1-5B Strathern Pit Site

As shown in Table 5, the currently proposed project's mitigated construction emissions would not exceed the SCAQMD's daily thresholds. The currently proposed project would result in higher peak daily CO emissions than estimated in the 2004 Project EIR but CO emissions would not exceed the SCAQMD's daily thresholds. Therefore,

the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Upper Storm Drain Project

Construction

Table 6 presents the estimated maximum daily construction emissions generated during construction of the currently proposed Upper Storm Drain Project. Details of the emission calculations are provided in Attachment A.

Table 6 Upper Storm Drain Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2004 Project						
2004 Project Maximum[1]	51	399	220	35	18	18
2020 Project Addendum[2]	3	31	23	<1.0	11	2
Currently Proposed Project						
Daily Summer (Maximum)						
2026	1.03	8.60	16.13	0.02	0.68	0.38
2027	1.11	8.51	14.95	0.02	0.78	0.38
2028	0.99	8.39	16.83	0.03	0.90	0.39
2029	0.84	6.58	14.88	0.02	0.55	0.27
2030	1.01	7.66	14.79	0.02	0.73	0.33
2031 – Phase 2	0.97	7.45	11.18	0.02	0.72	0.32
2031 – Phase 4	0.85	7.10	15.85	0.02	0.60	0.27
2032	0.75	5.93	14.64	0.02	0.51	0.23
2033	0.93	7.04	14.58	0.02	0.69	0.29
2034	0.00	0.00	0.00	0.00	0.00	0.00
Daily Winter (Maximum)						
2026	0.93	7.79	14.86	0.02	0.64	0.35
2027	1.07	7.82	14.79	0.02	0.60	0.32
2028	0.99	8.45	16.58	0.03	1.25	0.39
2029	0.83	6.61	14.74	0.03	1.25	0.38
2030	1.01	7.68	14.66	0.02	0.73	0.33
2031 – Phase 2	0.97	7.47	10.91	0.02	0.72	0.32
2031 – Phase 4	0.85	7.14	15.71	0.02	0.62	0.27
2032	0.75	5.96	14.53	0.02	0.62	0.23
2033	0.93	7.28	14.47	0.02	0.69	0.29
2034	0.86	7.24	9.78	0.01	0.48	0.22
Daily Maximum	**1.11**	**8.60**	**16.83**	**0.03**	**1.25**	**0.39**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*

Table 6 Upper Storm Drain Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
Threshold Exceeded?	No	No	No	No	No	No
2004 Project Exceeded?	No	No	No	No	No	No
2020 Project Exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Attachment A for complete results.

1 **Source:** 2004 PEIR – Table 4.1-5B Storm Drain

2 **Source:** 2020 Addendum – Table 3-1 Estimated Unmitigated Construction Emissions

As shown in Table 6, the currently proposed project's construction emissions would not exceed the SCAQMD's daily thresholds, nor would they exceed the 2004 and 2020 emissions estimates. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Combined Project

Some phases of each project component would overlap with each other. Table 7 provides a summary of the combined construction emissions.

Table 7 Combined Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2004 Project						
2004 Project Maximum[1]	78	560	333	49	32	32
Currently Proposed Project						
Daily Summer (Maximum)						
2026	1.03	8.60	16.13	0.02	0.68	0.38
2027	1.11	8.51	14.95	0.02	0.78	0.38
2028	16.34	118.04	151.16	0.42	12.73	7.31
2029	15.88	110.30	147.83	0.41	12.13	6.96
2030	15.72	107.69	147.41	0.41	12.17	6.89
2031	15.39	103.14	147.37	0.41	12.03	6.76
2032	7.12	15.62	30.90	0.09	1.00	0.59
2033	0.93	7.04	14.58	0.02	0.69	0.29
2034	0.25	2.30	4.90	0.01	0.17	0.07

Table 7 Combined Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Unmitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2035	7.45	8.22	15.73	0.03	0.94	0.36
Daily Winter (Maximum)						
2026	0.31	3.96	16.03	0.02	0.40	0.13
2027	1.07	7.82	14.79	0.02	0.60	0.32
2028	16.33	118.38	150.31	0.42	13.08	7.31
2029	15.87	110.61	147.08	0.42	12.83	7.07
2030	15.71	107.98	146.73	0.41	12.17	6.89
2031	15.38	103.43	146.74	0.41	12.03	6.76
2032	14.79	96.88	142.95	0.41	11.69	6.45
2033	3.23	17.06	30.49	0.09	1.26	0.68
2034	1.91	15.71	25.40	0.04	1.43	0.60
2035	7.45	8.25	15.45	0.03	0.94	0.36
Daily Maximum	**16.34**	**118.38**	**151.16**	**0.42**	**13.08**	**7.31**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**Yes**	**No**	**No**	**No**	**No**
2004 Project Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.
See Attachment A for complete results.
[1] **Source:** 2004 PEIR – Table 4.1-5B Strathen Pit and Storm Drain

As shown in Table 7, the currently proposed combined project component's construction emissions would not exceed the SCAQMD's daily thresholds except for NO_x. However, the 2004 Project EIR also exceed the SCAQMD's daily threshold for NO_x. Additionally, the combined project component's construction emissions would not exceed the 2004 estimates. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

As discussed previously, pursuant to Mitigation Measure A-14 from the 2004 EIR, construction of the Rory M Shaw Wetlands Project would require cleaner equipment in the form of Tier 4 construction equipment. Table 8 provides a summary of the mitigated emissions.

Table 8 Combined Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Mitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
2004 Project						
2004 Project Maximum[1]	78	560	333	49	32	32

Table 8 Combined Project Estimated Maximum Daily Construction Criteria Air Pollutant Emissions - Mitigated

Year	VOC	NOx	CO	SOx	PM10	PM2.5
	Pounds per day					
Currently Proposed Project						
Daily Summer (Maximum)						
2026	1.03	8.60	16.13	0.02	0.68	0.38
2027	1.11	8.51	14.95	0.02	0.78	0.38
2028	6.63	51.04	207.66	0.42	9.92	4.78
2029	6.43	48.28	205.23	0.41	9.55	4.63
2030	6.57	48.67	204.80	0.41	9.72	4.68
2031	6.47	47.77	205.53	0.41	9.70	4.67
2032	7.06	10.03	49.03	0.09	0.77	0.39
2033	0.93	7.04	14.58	0.02	0.69	0.29
2034	0.09	0.79	5.17	0.01	0.14	0.04
2035	7.25	3.24	18.16	0.03	0.82	0.25
Daily Winter (Maximum)						
2026	0.93	7.79	14.86	0.02	0.64	0.35
2027	1.07	7.82	14.79	0.02	0.60	0.32
2028	6.62	51.37	206.81	0.42	10.28	4.78
2029	6.42	48.58	204.49	0.42	10.25	4.75
2030	6.55	48.96	204.11	0.41	9.72	4.68
2031	6.46	48.06	204.89	0.41	9.70	4.67
2032	7.06	45.87	203.46	0.41	9.60	4.57
2033	1.79	12.19	48.79	0.09	1.07	0.52
2034	1.33	10.52	27.74	0.04	1.30	0.48
2035	7.25	3.27	17.88	0.03	0.82	0.25
Daily Maximum	**7.25**	**51.37**	**207.66**	**0.42**	**10.28**	**4.78**
SCAQMD Threshold	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
2004 Project Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

As shown in Table 8, the currently proposed combined project component's construction emissions would not exceed the SCAQMD's daily thresholds. Therefore, the currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Operational Emissions

The 2004 PEIR identified maintenance requirements of proposed facilities include sediment removal from retention facilities, separation systems, and catch basins, landscaping, maintenance of equipment such as pumps, and inspections. Each of these maintenance activities would require several personnel several times a year at each

site, requiring minor vehicle and employee travel. Sediment removal from retention basins may require minor earthwork. Several project components require operation of pumps, which are expected to be electric-powered. These activities would result in minor vehicle and equipment tailpipe emissions. Dust emissions related to earthwork may occur, but sediment removal from project facilities would likely occur under moist conditions.

The 2004 PEIR determined that operation and maintenance of specific facilities included as part of the Watershed Management Plan are expected to have minimal adverse impact on air quality and impacts were found to be less than significant in the 2004 PEIR. Operational activities associated with the currently proposed project would occur in a similar scale and intensity to what was previously analyzed in the 2004 PEIR. Therefore, the currently proposed project would not lead to new impacts, and no previously identified less than significant impacts would substantially increase in severity.

3.2.3 Expose sensitive receptors to substantial pollutant concentrations.

Localized Significance Threshold Analysis

Sensitive receptors are those more susceptible to the effects of air pollution than the population at large. The SCAQMD considers that sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The nearest sensitive receptors that could potentially be subject to air quality impacts associated with the project are residential uses approximately 40 feet east and south of the project site.

LST analysis has been prepared to determine potential impacts to nearby sensitive receptors during construction of the currently proposed project.

As indicated in Section 3.1, Thresholds of Significance, the SCAQMD recommends the evaluation of localized NO_2, CO, PM_{10}, and $PM_{2.5}$ impacts to sensitive receptors in the immediate vicinity of the project site that would occur as a result of construction activities. The impacts were analyzed using methods consistent with those in the SCAQMD's Final LST Methodology (2008). According to the Final LST Methodology, "off-site mobile emissions from the currently proposed project should not be included in the emissions compared to the LSTs" (SCAQMD 2008a). Hauling of construction materials associated with currently proposed project construction is not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways. Trucks and worker trips associated with the project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Nonetheless, to conservatively capture potential vehicle activity within the project boundary (i.e., fence line), a small portion (i.e., 0.25 miles) of the off-site vehicle travel for worker vehicles, vendor trucks, and haul trucks were conservatively treated as on-site emissions for the LST analysis.

Rory M Shaw Wetlands Park Project

Construction

Construction activities associated with the currently proposed project would result in temporary sources of on-site fugitive dust and construction equipment emissions. Off-site emissions from vendor trucks and worker vehicle trips are not included in the LST analysis. The maximum allowable daily emissions that would satisfy the SCAQMD LSTs for SRA 7

(previously shown in Table 2) are presented in Table 9 and compared with the maximum daily on-site construction emissions generated during the currently proposed project.

Table 9 Localized Significance Thresholds Analysis for Rory M Shaw Wetlands Park Project Construction - Unmitigated

Pollutant	Project Construction Emissions (Pounds per Day)	LST Criteria (Pounds per Day)	Exceeds LST?
NO_2	123.65	152.67	No
CO	143.01	1,218	No
PM_{10}	10.15	11.7	No
$PM_{2.5}$	7.01	6.7	Yes

Source: SCAQMD 2008a.
Notes: LST = localized significance threshold; NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter.
See Attachment A for detailed results.
Localized significance thresholds are shown for 4-acre project site corresponding to a distance to a sensitive receptor of 25 meters.
These estimates reflect control of fugitive dust required by Rule 403 with watering up to three times per day.

As shown in Table 9, construction activities would not exceed the SCAQMD daily LSTs for NO_2, CO, and PM_{10} however, the emissions would exceed the $PM_{2.5}$ site-specific LSTs; therefore, site-specific construction impacts during construction of the currently proposed project would be potentially significant. However, Mitigation Measure A-14 from the 2004 EIR would be implemented to require Tier 4 construction equipment for the construction of the Rory M Shaw Wetlands Park Project. The mitigated emissions are shown in Table 10.

Table 10 Localized Significance Thresholds Analysis for Rory M Shaw Wetlands Park Project Construction - Mitigated

Pollutant	Project Construction Emissions (Pounds per Day)	LST Criteria (Pounds per Day)	Exceeds LST?
NO_2	33.51	152.67	No
CO	220.38	1,218	No
PM_{10}	6.33	11.7	No
$PM_{2.5}$	3.56	6.7	No

Source: SCAQMD 2008a.
Notes: LST = localized significance threshold; NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter.
See Attachment A for detailed results.
Localized significance thresholds are shown for 4-acre project site corresponding to a distance to a sensitive receptor of 25 meters.
These estimates reflect control of fugitive dust required by Rule 403 with watering up to three times per day.

As shown in Table 10, construction activities would not exceed the SCAQMD daily LSTs for NO_2, CO, PM_{10} and $PM_{2.5}$ emissions in excess of site-specific LSTs; therefore, site-specific construction impacts during construction of the currently proposed project would be less than significant. The currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Upper Storm Drain Project

Construction

Construction activities associated with the currently proposed project would result in temporary sources of on-site fugitive dust and construction equipment emissions. Off-site emissions from vendor trucks and worker vehicle trips are not included in the LST analysis. The maximum allowable daily emissions that would satisfy the SCAQMD LSTs for SRA 7 (previously shown in Table 2) are presented in Table 11 and compared with the maximum daily on-site construction emissions generated during the currently proposed project.

Table 11 Localized Significance Thresholds Analysis for Upper Storm Drain Project Construction - Unmitigated

Pollutant	Project Construction Emissions (Pounds per Day)	LST Criteria (Pounds per Day)	Exceeds LST?
NO_2	8.40	152.67	No
CO	15.11	1,218	No
PM_{10}	0.31	11.7	No
$PM_{2.5}$	0.28	6.7	No

Source: SCAQMD 2008a.
Notes: LST = localized significance threshold; NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter.
See Attachment A for detailed results.
Localized significance thresholds are shown for 4-acre project site corresponding to a distance to a sensitive receptor of 25 meters.
These estimates reflect control of fugitive dust required by Rule 403 with watering up to three times per day.

As shown in Table 11, construction activities would not exceed the SCAQMD daily LSTs for NO_2, CO, PM_{10} and $PM_{2.5}$ emissions in excess of site-specific LSTs; therefore, site-specific construction impacts during construction of the currently proposed project would be less than significant. The currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

Combined Project

Construction

Some phases of each project component would overlap with each other. Table 10 provides a summary of the combined construction emissions.

Table 12 Localized Significance Thresholds Analysis for Combined Project Construction - Unmitigated

Pollutant	Project Construction Emissions (Pounds per Day)	LST Criteria (Pounds per Day)	Exceeds LST?
NO_2	111.83	152.67	No
CO	144.24	1,218	No
PM_{10}	9.52	11.7	No

$PM_{2.5}$	6.42	6.7	No

Source: SCAQMD 2008a.
Notes: LST = localized significance threshold; NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter.
See Attachment A for detailed results.
Localized significance thresholds are shown for 3.5-acre project site corresponding to a distance to a sensitive receptor of 30 meters. These estimates reflect control of fugitive dust required by Rule 403 with watering up to three times per day.

As shown in Table 12, construction activities would not exceed the SCAQMD daily LSTs for NO_2, CO, PM_{10}, and $PM_{2.5}$ therefore, site-specific construction impacts during construction of the currently proposed project would be less than significant. Nonetheless, Mitigation Measure A-14 from the 2004 EIR would be implemented to require Tier 4 construction equipment for the construction of the Rory M Shaw Wetlands Park Project. The mitigated emissions are shown in Table 13.

Table 13 Localized Significance Thresholds Analysis for Combined Project Construction - Mitigated

Pollutant	Project Construction Emissions (Pounds per Day)	LST Criteria (Pounds per Day)	Exceeds LST?
NO_2	41.64	152.67	No
CO	235.25	1,218	No
PM_{10}	10.43	11.7	No
$PM_{2.5}$	5.45	6.7	No

Source: SCAQMD 2008a.
Notes: LST = localized significance threshold; NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter.
See Attachment A for detailed results.
Localized significance thresholds are shown for 3.5-acre project site corresponding to a distance to a sensitive receptor of 30 meters. These estimates reflect control of fugitive dust required by Rule 403 with watering up to three times per day.

As shown in Table 13, construction activities would not exceed the SCAQMD daily LSTs for NO_2, CO, PM_{10} and $PM_{2.5}$ emissions in excess of site-specific LSTs; therefore, site-specific construction impacts during construction of the currently proposed project would be less than significant. The currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

3.2.4 Result in other emissions (such as those leading to odors) that would adversely affect a substantial number of people

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints. Other emissions that could affect a substantial number of people include emissions of hazardous building materials during demolition, such as asbestos and lead.

As discussed previously, construction impacts described in the certified 2004 PEIR are not anticipated to change under the currently proposed project components. Construction-related odors for the currently proposed project components would be the same or similar to those of the 2004 Project. As impacts related to construction odors

were found to be less than significant in the certified 2004 PEIR, impacts associated with the currently proposed project components would also be less than significant, and no new impacts would occur.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). The project (under both its 2004 and currently proposed forms) would not include any such odor-generating land uses. No other sources of objectionable odors were identified in the 2004 PEIR for the 2004 Project. The project modifications would not involve a change in the land use mix of the project that would introduce an odor-causing use. Additionally, operation of the currently proposed project would not involve other emissions that would affect a substantial number of people, aside from those discussed previously under the thresholds above. As such, impacts would remain less than significant for the currently proposed project. The currently proposed project components would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

3.3 Mitigation Measures

The following mitigation measures from the 2004 PEIR were required for the project as originally proposed and will be required for the currently proposed project.

A-1 Clean dirt from construction vehicle tires and undercarriages when leaving the construction site and before entering local roadways.

A-2 During earth-moving activities, water the construction area as necessary, but at least twice per day

A-3 Water temporary open storage plies once per hour or install temporary covers

A-4 Water unpaved roadways three times per day or apply non-toxic soil stabilizers.

A-5 Limit construction vehicle speed on the project site to 15 miles per hour (mph) or less

A-6 Cover dirt in trucks during on-road hauling

A-7 Cease earth-moving activities on days when gusts exceed 25 mph or apply water to soil not more than 15 minutes prior to moving such soil

A-8 Sweep streets near the construction area at the end of the day if visible soil material is present.

A-9 For applicable construction areas, establish a vegetative groundcover as soon as feasible after active operations have ceased. Groundcover will be of sufficient density to expose less than 30 percent of unestablished ground within 90 days of planting

A-10 Per SCAQMD Rule 403(f), large construction operations will 1) implement fugitive dust suppression measures as specified in Tables 1 and 2 of Rule 403, or 2) prepare a fugitive dust emissions control plan and obtain approval from SCAQMD

A-11 Prohibit all vehicles from idling in excess of 10 minutes, both on and off-site.

A-12 Maintain construction equipment in proper tune.

A-13 Encourage contractors to establish trip reduction plans. The goal of these plans will be to achieve a 1.5 average vehicle ridership for construction employees.

A-14 Select construction equipment with low pollutant emissions and high energy efficiency. Factors to consider include model year and alternative fuels (e.g., compressed natural gas, biodiesel, emulsified diesel, methanol, propane, butane, and low sulfur diesel).

4 Greenhouse Gas Emissions Assessment

Since certification of the 2004 PEIR, updates to the CEQA Guidelines have gone into effect. Specifically, in 2009 the California Natural Resources Agency adopted new guidelines requiring lead agencies to analyze GHGs under section 15064.4. As such, GHG impacts were not addressed in the 2004 PEIR. The 2013 Addendum's analysis found GHG impacts to be less than significant.

4.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to greenhouse gases/climate change are based on Appendix G of the CEQA Guidelines. (These significance thresholds have not changed since the time of the 2013 Addendum.) According to Appendix G of the CEQA Guidelines, a significant impact related to greenhouse gas emissions would occur if the project would:

A. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
B. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the approved or currently proposed project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated at a project level under CEQA.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures for GHGs. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). The State of California has not adopted emission-based thresholds for GHG emissions under CEQA. The Governor's Office of Planning and Research's Technical Advisory titled "CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act Review" states that "public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG

emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact" (OPR 2008). Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice." Section 15064.7(c) of the CEQA Guidelines specifies that "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

Status of Proposed SCAQMD Thresholds

In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold* (SCAQMD 2008b). This guidance document, which builds on the previous guidance prepared by the CAPCOA, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (see SCAQMD Resolution No. 08-35, December 5, 2008).

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land use development projects. The most recent proposal, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

Tier 1 Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.

Tier 2 Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.

Tier 3 Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO_2e per year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e per year), commercial projects (1,400 MT CO_2e per year), and mixed-use projects (3,000 MT CO_2e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.

Tier 4 Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of Assembly Bill (AB) 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO_2e per service population for project level analyses and 6.6 MT CO_2e per

service population for plan level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.

Tier 5 Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

To determine the currently proposed project's potential to generate GHG emissions that would have a significant impact on the environment, the project's GHG emissions were compared to the non-industrial quantitative threshold of 3,000 MT CO_2e per year. Because the currently proposed project does not include operational sources of emissions, and because the currently proposed project does not conform to the standard land use types, the 3,000 MT CO_2e per year threshold, which was identified under Tier 3 Option 1, was applied herein. Per the SCAQMD guidance, construction emissions should be amortized over the operational life of the currently proposed project, which is assumed to be 30 years (SCAQMD 2008b). This impact analysis, therefore, compares amortized construction emissions to the proposed SCAQMD threshold of 3,000 MT CO_2e per year.

4.2 Impact Analysis

4.2.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Rory M Shaw Wetlands Project

Construction

Construction of the currently proposed project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor and haul trucks, and worker vehicles. The CalEEMod was used to estimate GHG emissions during construction consistent with the assumptions presented in Section 3.2.2. On-site sources of GHG emissions include off-road equipment and off-site sources include on-road vehicles (vendor trucks, haul trucks and worker vehicles). Table 14 presents construction GHG emissions for the currently proposed project from on-site and off-site emission sources.

Table 14 Estimated Annual Construction GHG Emissions – Rory M Shaw Wetlands Park Project – Unmitigated

Year	CO_2	CH_4	N_2O	R	CO_2e
	Metric Tons				
2028	2,341.82	0.10	0.05	0.26	2,360.17
2029	5,201.82	0.21	0.14	0.66	5,248.96
2030	5,184.31	0.21	0.14	0.61	5,231.12
2031	5,166.60	0.21	0.13	0.56	5,212.21
2032	1,237.49	0.05	0.03	0.12	1,248.10
2033	147.65	0.01	0.00	0.00	148.20
2034	164.36	0.01	0.00	0.02	165.17
2035	201.51	0.01	0.00	0.02	202.60
				Total	*19,816.52*
Amortized emissions over 30 years (metric tons per year)					660.55

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; R = refrigerant; CO_2e = carbon dioxide equivalent.

See Attachment A for complete results

As shown in Table 14, the estimated total GHG emissions in would be approximately 19,816.52 MT CO_2e. Amortized over 30 years, construction GHG emissions would be approximately 661 MT CO_2e per year, which is below the SCAQMD's interim threshold of 3,000 MT CO_2e. In addition, as with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Upper Storm Drain Project

Construction

The Upper Storm Drain Project would also result in GHG emissions during construction. Table 15 provides a summary of the currently proposed project component's GHG emissions.

Table 15 Estimated Annual Construction GHG Emissions – Upper Storm Drain – Unmitigated

Year	CO_2	CH_4	N_2O	R	CO_2e
	Metric Tons				
2026	155.77	0.01	0.01	0.06	158.03
2027	222.46	0.01	0.00	0.06	224.18
2028	194.26	0.01	0.02	0.10	199.46
2029	327.74	0.01	0.01	0.09	331.75
2030	306.68	0.01	0.01	0.07	309.27
2031	269.03	0.01	0.01	0.05	271.19
2032	310.42	0.01	0.01	0.07	314.32
2033	279.66	0.01	0.00	0.04	281.09
2034	20.19	0.00	0.00	0.00	20.26
				Total	*2,109.54*
Amortized emissions over 30 years (metric tons per year)					**70.32**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; R = refrigerant; CO_2e = carbon dioxide equivalent.
See Attachment A for complete results

As shown in Table 15, the estimated total GHG emissions in would be approximately 2,109.54 MT CO_2e. Amortized over 30 years, construction GHG emissions would be approximately 70 MT CO_2e per year, which is below the SCAQMD's interim threshold of 3,000 MT CO_2e. In addition, as with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Combined Project

The currently proposed project components would have overlapping phases. Table 16 provides a summary of the combined construction GHG emissions.

Table 16 Estimated Annual Construction GHG Emissions – Combined Project – Unmitigated

Year	CO_2	CH_4	N_2O	R	CO_2e
	Metric Tons				
2026	155.77	0.01	0.01	0.06	158.03
2027	222.46	0.01	0.00	0.06	224.18
2028	2,536.08	0.10	0.07	0.36	2,559.63
2029	5,529.56	0.23	0.15	0.75	5,580.71
2030	5,490.99	0.22	0.14	0.68	5,540.39
2031	5,435.63	0.22	0.14	0.61	5,483.40
2032	1,547.91	0.06	0.04	0.19	1,562.41
2033	427.31	0.02	0.01	0.05	429.29
2034	184.55	0.01	0.00	0.03	185.43
2035	201.51	0.01	0.00	0.02	202.60
				Total	*21,926.06*
Amortized emissions over 30 years (metric tons per year)					**730.87**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; R = refrigerant; CO_2e = carbon dioxide equivalent.
See Attachment A for complete results

As shown in Table 16, the estimated total GHG emissions in would be approximately 21,926.06 MT CO_2e. Amortized over 30 years, construction GHG emissions would be approximately 731 MT CO_2e per year, which is below the SCAQMD's interim threshold of 3,000 MT CO_2e. In addition, as with project-generated construction criteria air pollutant emissions, GHG emissions generated during proposed construction activities would be short term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

The 2004 PEIR identified maintenance requirements of proposed facilities include sediment removal from retention facilities, separation systems, and catch basins, landscaping, maintenance of equipment such as pumps, and inspections. Each of these maintenance activities would require several personnel several times a year at each site, requiring minor vehicle and employee travel. Sediment removal from retention basins may require minor earthwork. Several project components require operation of pumps, which are expected to be electric-powered. These activities would result in minor vehicle and equipment GHG emissions. As previously mentioned, GHG impacts were not addressed in the 2004 PEIR and the 2013 Addendum's analysis found GHG impacts to be less than significant.

Operational activities associated with the currently proposed project would occur in a similar scale and intensity to what previously analyzed in the 2013 Addendum and the 2020 Addendum. As shown in Tables 14 through 16, amortized project-generated construction emissions would not exceed the 3,000 SCAQMD threshold. As such, impacts would remain less than significant for the currently proposed project components. The currently proposed project components would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

4.2.2 Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Conflict with County's Climate Action Plan (CAP)

The County's CAP includes 10 strategies and 25 measures that combined achieve the three GHG reduction targets established by the County for 2030, 2035, and 2045. The community actions are grouped into 10strategy areas, listed below. Following each strategy area, a qualitative analysis as to how each strategy relates to the currently proposed project is provided.

1. **Decarbonize the Energy Supply.** The currently proposed project would procure construction fuel from commercial producers which are subject to increased regulations requiring low-carbon fuels. The currently proposed project is not anticipated to require electricity, however, if certain equipment required electricity, the currently proposed project would secure the electricity from commercial producers that are subject to the renewable portfolio standard, which reduces the carbon intensity of the electricity.

2. **Increase Densities and Diversity of Land Uses Near Transit.** The currently proposed project does not include housing.

3. **Reduce Single-Occupancy Vehicle Trips.** The currently proposed project would encourage ridesharing among the construction workforce through implementation of Mitigation Measure A-13.

4. **Institutionalize Low-Carbon Transportation.** The currently proposed project would not involve the purchase of county fleet vehicles. The use of zero-emission offroad vehicles would be encouraged through the contracting process in compliance with Mitigation Measure A-14. Per the parking requirements of Cal Green, a percentage of the total number of parking stalls would include electrical vehicle charging stations.

5. **Decarbonize Buildings.** The currently proposed project does not include any new buildings.

6. **Improve Efficiency of Existing Building Energy Use**. The currently proposed project does not include any new buildings.

7. **Conserve Water.** The currently proposed project would comply with Title 24 and Cal Green requirements to reduce water and wastewater consumption and production.

8. **Minimize Waste and Recover Energy and Materials from Waste Stream.** The currently proposed project would be required to reduce construction waste. These measures would support the CCAP's actions for waste reduction.

9. **Conserve and Connect Wildlands and Working Lands.** The currently proposed project does not involve wildlands or working lands. The currently proposed project would expand open space within the County and result in a net increase in the number of trees at the project site.

10. **Sequester Carbon and Implement Sustainable Agriculture.** The currently proposed project would expand open space within the County and result in a net increase in the number of trees at the project

site. The currently proposed project would include plantings in accordance with the County's regulations for drought-tolerant or California native trees and plants.

Therefore, the currently proposed project would be consistent with the County's CAP.

Conflict with the Southern California Association of Governments 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy

Connect SoCal 2024 is SCAG's long-range Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS). This plan outlines a vision for a more resilient and equitable future, with policies and strategies aimed at achieving the region's shared goals through 2050. Connect SoCal 2024 incorporates local land use projections and circulation networks in city and county general plans. Connect SoCal 2024is not directly applicable to the project because the purpose of the RTP/SCS is to provide direction and guidance by making the best transportation and land use choices for future development. The currently proposed project would not conflict with implementation of the strategies identified in the RTP/SCS.

Conflict with the CARB Scoping Plan, SB 32, and EO S-3-05

As discussed in the County's CAP, the 2045 CAP is consistent with the California Air Resources Board's recommendation for local governments contained in the 2022 Scoping Plan. As discussed above, the currently proposed project is consistent with the County's 2045 CAP, as such it would not conflict with the State's Scoping Plan and GHG targets.

Based on the above considerations, the currently proposed project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. As such, impacts would remain less than significant for the currently proposed project. The currently proposed project would not lead to new impacts, and no previously identified significant impacts would substantially increase in severity.

5 Energy Assessment

Since certification of the 2004 PEIR and 2013 Addendum, updates to the CEQA Guidelines have gone into effect. One of the updates involves the introduction of recommended thresholds for impacts associated with energy consumption. At the time of 2004 PEIR certification and 2013 Addendum, the CEQA Guidelines provided no specific thresholds for energy impacts.

The analysis in this memorandum relies on the most recent version of the Appendix G thresholds, since this memorandum is prepared after the CEQA amendments went into effect and in the interest of providing the public and decision makers with as much information on the environmental consequences as possible. As such, this memorandum includes an analysis of the currently proposed project's energy impacts, using the energy thresholds from the latest version of Appendix G of the CEQA Guidelines.

5.1 Thresholds of Significance

The significance criteria used to evaluate the project impacts to energy are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to energy would occur if the currently proposed project would:

A. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.

B. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

5.2 Impacts Analysis

5.2.1 Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Construction

Electricity Use

Temporary electric power for as-necessary lighting and electronic equipment would be provided by LADWP. The amount of electricity used during construction would be minimal, as demand would primarily stem from use of electrically powered hand tools, trailers and site lighting. The electricity used for construction activities would be temporary and minimal; therefore, currently proposed project construction would not result in wasteful, inefficient, or unnecessary consumption of electricity. Impacts would be less than significant.

Natural Gas

Natural gas is not anticipated to be required during construction. Fuels used for construction would primarily consist of diesel and gasoline, which are discussed under the subsection “Petroleum.” Any minor amounts of natural gas that may be consumed as a result of project construction would be temporary and negligible and would not have an adverse effect; therefore, construction would not result in wasteful, inefficient, or unnecessary consumption of natural gas. Impacts would be less than significant.

Petroleum

Petroleum would be consumed throughout construction. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction. Transportation of construction materials and construction workers would also result in petroleum consumption. Heavy-duty construction equipment, vendor trucks, and haul trucks would use diesel fuel. The currently proposed project would be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; (3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The fleet must either show that its fleet average index was less than or equal to the calculated fleet average target rate or that the fleet has met the Best Achievable Control Technology requirements. Overall, the project would not be unusual as compared to overall local and regional demand for energy resources and would not involve characteristics that require equipment that would be less energy efficient than at comparable construction sites in the region or state.

Therefore, because petroleum use during construction would be temporary and would not be wasteful or inefficient, impacts would be less than significant.

Operation

Electricity Use

Project operation would require electricity for the 15 acres of park space and ancillary electronic equipment, pump station associated with the wetland and detention pond and necessary lighting. CalEEMod was used to estimate project emissions from electricity uses (see Attachment A). The currently proposed project is anticipated to require approximately 631,320 kilowatt-hours of electricity pear year. Electricity is supplied to the project site by LADWP. Annual retail sales of electricity in LADWP's service area was estimated to be approximately 22 billion kWh in 2019 (CEC 2021). The increase in electricity consumption that would be associated with the proposed project represents approximately 0.003% of LADWP's total electricity sales in 2019. As such, the increase in electricity demand at the project site would be negligible relative to the electricity use in LADWP's service area. Therefore, electricity consumption of the proposed project would not be considered inefficient or wasteful, and impacts would be less than significant.

Natural Gas

Natural gas is not anticipated to be required during operation. Fuels used for operation would primarily consist of diesel and gasoline, which are discussed under the subsection "Petroleum." Any minor amounts of natural gas that may be consumed as a result of project operation would be temporary and negligible and would not have an adverse effect; therefore, construction would not result in wasteful, inefficient, or unnecessary consumption of natural gas. Impacts would be less than significant.

Petroleum

During operations, the majority of fuel consumption resulting from the proposed project would involve the use of motor vehicles traveling to and from the project site for periodic maintenance. Petroleum fuel consumption associated with motor vehicles traveling to and from the project site is a function of the vehicle miles traveled as a result of project operation. Based on the 8.78 Kilograms CO_2 per gallon of gasoline, the currently proposed project is anticipated to require 39,000 gallons of petroleum annually during operation (Climate Registry 2021). By comparison, approximately 1.4 billion gallons of petroleum are consumed in Los Angeles County per year (CARB 2020). As such, project operations would not result in wasteful, inefficient, or unnecessary consumption of petroleum, and impacts would be less than significant.

5.2.2 Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

As with the 2004 Project, the currently proposed project would be subject to and would comply with, at a minimum, the California Building Energy Efficiency Standards (24 CCR, Part 6). Part 6 of Title 24 establishes energy efficiency standards for residential and non-residential buildings constructed in California in order to reduce energy demand and consumption. As such, the currently proposed project would comply with the California code requirements for energy efficiency.

Additionally, as discussed in Section 4 (Greenhouse Gas Emissions), the currently proposed project would not conflict with the various local plans that would reduce energy use, including the County's CAP. Therefore, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

Based on the analysis above, the currently proposed project would not have a significant impact relative to energy consumption. As such, the currently proposed project would not lead to new impacts in the category of energy, and no previously identified significant impacts would substantially increase in severity.

Attachment A: CalEEMOD Output Files

Project Component	Page Number
Rory M. Shaw Wetlands Park	
Phase 2 Regional Emissions	A-1
Phase 3 Regional Emissions	A-117
Phase 2 Localized Significance Threshold Emissions	A-173
Phase 3 Localized Significance Threshold Emissions	A-289
Upper Storm Drains	
Phase 3 Regional Emissions	A-345
Phase 2 Regional Emissions	A-391
Phase 4 Regional Emissions	A-446
Phase 3 Localized Significance Threshold Emissions	A-501
Phase 2 Localized Significance Threshold Emissions	A-547
Phase 4 Localized Significance Threshold Emissions	A-602

Rory M. Shaw Wetlands Park Phase 2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

3.2. Demolition (2028) - Mitigated

3.3. Site Preparation (2028) - Unmitigated

3.4. Site Preparation (2028) - Mitigated

3.5. Mobilization (2028) - Unmitigated

3.6. Mobilization (2028) - Mitigated

3.7. Deep Dynamic Compaction (2028) - Unmitigated

3.8. Deep Dynamic Compaction (2028) - Mitigated

3.9. Deep Dynamic Compaction (2029) - Unmitigated

3.10. Deep Dynamic Compaction (2029) - Mitigated

3.11. Deep Dynamic Compaction (2030) - Unmitigated

3.12. Deep Dynamic Compaction (2030) - Mitigated

3.13. Deep Dynamic Compaction (2031) - Unmitigated

3.14. Deep Dynamic Compaction (2031) - Mitigated

3.15. Deep Dynamic Compaction (2032) - Unmitigated

3.16. Deep Dynamic Compaction (2032) - Mitigated

3.17. Haul Excess Material (2028) - Unmitigated

3.18. Haul Excess Material (2028) - Mitigated

3.19. Haul Excess Material (2029) - Unmitigated

3.20. Haul Excess Material (2029) - Mitigated

3.21. Haul Excess Material (2030) - Unmitigated

3.22. Haul Excess Material (2030) - Mitigated

3.23. Haul Excess Material (2031) - Unmitigated

3.24. Haul Excess Material (2031) - Mitigated

3.25. Haul Excess Material (2032) - Unmitigated

3.26. Haul Excess Material (2032) - Mitigated

3.27. Crush Concrete (2028) - Unmitigated

3.28. Crush Concrete (2028) - Mitigated

3.29. Crush Concrete (2029) - Unmitigated

3.30. Crush Concrete (2029) - Mitigated

3.31. Crush Concrete (2030) - Unmitigated

3.32. Crush Concrete (2030) - Mitigated

3.33. Crush Concrete (2031) - Unmitigated

3.34. Crush Concrete (2031) - Mitigated

3.35. Crush Concrete (2032) - Unmitigated

3.36. Crush Concrete (2032) - Mitigated

3.37. Drainage (2032) - Unmitigated

3.38. Drainage (2032) - Mitigated

3.39. Clean up (2032) - Unmitigated

3.40. Clean up (2032) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Rory M. Shaw Wetlands Park Phase 2
Construction Start Date	3/2/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	46.0	Acre	23.3	0.00	653,400	653,400	—	—
Other Non-Asphalt Surfaces	21.3	Acre	21.3	0.00	0.00	0.00	—	—

Parking Lot	160	Space	1.44	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.5	15.3	110	134	0.39	3.92	7.91	11.8	3.61	3.31	6.92	—	44,165	44,165	1.81	1.20	14.1	44,581
Mit.	6.36	6.31	42.6	191	0.39	1.11	7.91	9.03	1.08	3.31	4.39	—	44,165	44,165	1.81	1.20	14.1	44,581
% Reduced	66%	59%	61%	-42%	—	72%	—	24%	70%	—	37%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.5	15.3	110	134	0.39	3.92	7.91	11.8	3.61	3.31	6.92	—	44,117	44,117	1.81	1.20	0.37	44,520
Mit.	6.35	6.31	42.9	190	0.39	1.11	7.91	9.03	1.08	3.31	4.39	—	44,117	44,117	1.81	1.20	0.37	44,520
% Reduced	66%	59%	61%	-42%	—	72%	—	24%	70%	—	37%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.9	10.7	74.3	94.7	0.28	2.62	5.63	8.25	2.41	2.36	4.77	—	31,419	31,419	1.29	0.83	4.00	31,704

Mit.	4.48	3.99	30.0	136	0.28	0.78	5.63	6.41	0.75	2.36	3.11	—	31,419	31,419	1.29	0.83	4.00	31,704
% Reduced	65%	63%	60%	-43%	—	70%	—	22%	69%	—	35%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.36	1.96	13.6	17.3	0.05	0.48	1.03	1.51	0.44	0.43	0.87	—	5,202	5,202	0.21	0.14	0.66	5,249
Mit.	0.82	0.73	5.48	24.8	0.05	0.14	1.03	1.17	0.14	0.43	0.57	—	5,202	5,202	0.21	0.14	0.66	5,249
% Reduced	65%	63%	60%	-43%	—	70%	—	22%	69%	—	35%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	Yes	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	18.5	15.3	110	134	0.39	3.92	7.91	11.8	3.61	3.31	6.92	—	44,165	44,165	1.81	1.20	14.1	44,581
2029	18.2	15.0	104	133	0.39	3.67	7.91	11.6	3.38	3.31	6.69	—	44,022	44,022	1.81	1.17	13.0	44,428

2030	17.7	14.7	100	133	0.39	3.53	7.91	11.4	3.25	3.31	6.56	—	43,873	43,873	1.77	1.16	11.9	44,276
2031	17.4	14.4	95.7	132	0.39	3.40	7.91	11.3	3.14	3.31	6.44	—	43,723	43,723	1.77	1.10	10.9	44,105
2032	6.40	6.37	9.68	16.3	0.06	0.36	0.22	0.49	0.33	0.05	0.36	—	6,966	6,966	0.28	0.06	0.56	6,990
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	18.5	15.3	110	134	0.39	3.92	7.91	11.8	3.61	3.31	6.92	—	44,117	44,117	1.81	1.20	0.37	44,520
2029	18.1	15.0	104	132	0.39	3.67	7.91	11.6	3.38	3.31	6.69	—	43,975	43,975	1.81	1.17	0.34	44,369
2030	17.7	14.7	100	132	0.39	3.53	7.91	11.4	3.25	3.31	6.56	—	43,827	43,827	1.77	1.16	0.31	44,219
2031	17.4	14.4	96.0	131	0.39	3.40	7.91	11.3	3.14	3.31	6.44	—	43,678	43,678	1.77	1.13	0.28	44,059
2032	16.9	14.0	90.9	128	0.39	3.15	7.91	11.1	2.90	3.31	6.21	—	43,532	43,532	1.77	1.09	0.26	43,903
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	5.92	4.92	33.3	41.7	0.13	1.16	1.91	3.07	1.07	0.78	1.85	—	14,145	14,145	0.58	0.32	1.57	14,256
2029	12.9	10.7	74.3	94.7	0.28	2.62	5.63	8.25	2.41	2.36	4.77	—	31,419	31,419	1.29	0.83	4.00	31,704
2030	12.7	10.5	71.7	94.4	0.28	2.52	5.63	8.15	2.32	2.36	4.68	—	31,313	31,313	1.27	0.83	3.67	31,596
2031	12.4	10.3	68.6	93.7	0.28	2.43	5.63	8.06	2.24	2.36	4.60	—	31,207	31,207	1.27	0.81	3.36	31,482
2032	3.65	3.16	15.3	21.9	0.07	0.53	1.30	1.83	0.49	0.54	1.03	—	7,475	7,475	0.30	0.19	0.72	7,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.08	0.90	6.07	7.62	0.02	0.21	0.35	0.56	0.20	0.14	0.34	—	2,342	2,342	0.10	0.05	0.26	2,360
2029	2.36	1.96	13.6	17.3	0.05	0.48	1.03	1.51	0.44	0.43	0.87	—	5,202	5,202	0.21	0.14	0.66	5,249
2030	2.31	1.92	13.1	17.2	0.05	0.46	1.03	1.49	0.42	0.43	0.85	—	5,184	5,184	0.21	0.14	0.61	5,231
2031	2.27	1.88	12.5	17.1	0.05	0.44	1.03	1.47	0.41	0.43	0.84	—	5,167	5,167	0.21	0.13	0.56	5,212
2032	0.67	0.58	2.79	4.00	0.01	0.10	0.24	0.33	0.09	0.10	0.19	—	1,237	1,237	0.05	0.03	0.12	1,248

2.3. Construction Emissions by Year, Mitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	6.36	5.63	42.6	191	0.39	1.11	7.91	9.03	1.08	3.31	4.39	—	44,165	44,165	1.81	1.20	14.1	44,581
2029	6.32	5.59	41.7	190	0.39	1.09	7.91	9.00	1.06	3.31	4.36	—	44,022	44,022	1.81	1.17	13.0	44,428
2030	6.24	5.55	41.0	190	0.39	1.08	7.91	8.99	1.04	3.31	4.35	—	43,873	43,873	1.77	1.16	11.9	44,276
2031	6.17	5.50	40.3	190	0.39	1.07	7.91	8.98	1.04	3.31	4.35	—	43,723	43,723	1.77	1.10	10.9	44,105
2032	6.32	6.31	4.10	34.4	0.06	0.13	0.22	0.26	0.13	0.05	0.16	—	6,966	6,966	0.28	0.06	0.56	6,990
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	6.35	5.63	42.9	190	0.39	1.11	7.91	9.03	1.08	3.31	4.39	—	44,117	44,117	1.81	1.20	0.37	44,520
2029	6.28	5.58	42.0	190	0.39	1.09	7.91	9.00	1.06	3.31	4.36	—	43,975	43,975	1.81	1.17	0.34	44,369
2030	6.23	5.54	41.3	189	0.39	1.08	7.91	8.99	1.04	3.31	4.35	—	43,827	43,827	1.77	1.16	0.31	44,219
2031	6.16	5.49	40.6	189	0.39	1.07	7.91	8.98	1.04	3.31	4.35	—	43,678	43,678	1.77	1.13	0.28	44,059
2032	6.32	6.31	39.9	189	0.39	1.06	7.91	8.97	1.03	3.31	4.34	—	43,532	43,532	1.77	1.09	0.26	43,903
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.89	1.72	13.0	64.0	0.13	0.34	1.91	2.24	0.33	0.78	1.11	—	14,145	14,145	0.58	0.32	1.57	14,256
2029	4.48	3.99	30.0	136	0.28	0.78	5.63	6.41	0.75	2.36	3.11	—	31,419	31,419	1.29	0.83	4.00	31,704
2030	4.45	3.96	29.5	135	0.28	0.77	5.63	6.40	0.75	2.36	3.10	—	31,313	31,313	1.27	0.83	3.67	31,596
2031	4.41	3.92	29.0	135	0.28	0.76	5.63	6.40	0.74	2.36	3.10	—	31,207	31,207	1.27	0.81	3.36	31,482
2032	1.79	1.68	6.69	32.7	0.07	0.18	1.30	1.48	0.17	0.54	0.71	—	7,475	7,475	0.30	0.19	0.72	7,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.35	0.31	2.37	11.7	0.02	0.06	0.35	0.41	0.06	0.14	0.20	—	2,342	2,342	0.10	0.05	0.26	2,360
2029	0.82	0.73	5.48	24.8	0.05	0.14	1.03	1.17	0.14	0.43	0.57	—	5,202	5,202	0.21	0.14	0.66	5,249
2030	0.81	0.72	5.39	24.7	0.05	0.14	1.03	1.17	0.14	0.43	0.57	—	5,184	5,184	0.21	0.14	0.61	5,231
2031	0.80	0.72	5.30	24.7	0.05	0.14	1.03	1.17	0.14	0.43	0.57	—	5,167	5,167	0.21	0.13	0.56	5,212
2032	0.33	0.31	1.22	5.97	0.01	0.03	0.24	0.27	0.03	0.10	0.13	—	1,237	1,237	0.05	0.03	0.12	1,248

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.79	8.22	48.0	65.1	0.22	1.56	—	1.56	1.44	—	1.44	—	22,918	22,918	0.93	0.19	—	22,997
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21	1.01	5.92	8.02	0.03	0.19	—	0.19	0.18	—	0.18	—	2,826	2,826	0.11	0.02	—	2,835
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.22	0.18	1.08	1.46	< 0.005	0.04	—	0.04	0.03	—	0.03	—	468	468	0.02	< 0.005	—	469
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.02	0.01	0.38	0.18	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	358	358	0.01	0.05	0.91	375
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.4	46.4	< 0.005	< 0.005	0.06	47.0
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.2	44.2	< 0.005	0.01	0.05	46.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.69	7.69	< 0.005	< 0.005	0.01	7.79
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.32	7.32	< 0.005	< 0.005	0.01	7.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Demolition (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	~~A~~13	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.27	2.27	18.6	119	0.22	0.43	—	0.43	0.43	—	0.43	—	22,918	22,918	0.93	0.19	—	22,997
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	2.29	14.6	0.03	0.05	—	0.05	0.05	—	0.05	—	2,826	2,826	0.11	0.02	—	2,835
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.42	2.67	< 0.005	0.01	—	0.01	0.01	—	0.01	—	468	468	0.02	< 0.005	—	469
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.02	0.01	0.38	0.18	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	358	358	0.01	0.05	0.91	375
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.4	46.4	< 0.005	< 0.005	0.06	47.0
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	44.2	44.2	< 0.005	0.01	0.05	46.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.69	7.69	< 0.005	< 0.005	0.01	7.79
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.32	7.32	< 0.005	< 0.005	0.01	7.64
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.25	8.16	12.7	0.03	0.26	—	0.26	0.24	—	0.24	—	3,680	3,680	0.15	0.03	—	3,693
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.49	0.76	< 0.005	0.02	—	0.02	0.01	—	0.01	—	222	222	0.01	< 0.005	—	223
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.7	36.7	< 0.005	< 0.005	—	36.9
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	1.13	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	261	261	< 0.005	0.01	0.74	265
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	179	179	0.01	0.03	0.45	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.51	2.51	< 0.005	< 0.005	< 0.005	2.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	2.40	20.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,680	3,680	0.15	0.03	—	3,693
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	1.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	222	222	0.01	< 0.005	—	223
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.7	36.7	< 0.005	< 0.005	—	36.9
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	1.13	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	261	261	< 0.005	0.01	0.74	265
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	179	179	0.01	0.03	0.45	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.02	15.3

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.51	2.51	< 0.005	< 0.005	< 0.005	2.54
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.87
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Mobilization (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85	2.39	12.8	15.8	0.06	0.46	—	0.46	0.42	—	0.42	—	6,877	6,877	0.28	0.06	—	6,900
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	1.57	1.95	0.01	0.06	—	0.06	0.05	—	0.05	—	848	848	0.03	0.01	—	851

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.29	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	140	140	0.01	< 0.005	—	141
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	183	183	< 0.005	0.01	0.52	185
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.7	59.7	< 0.005	0.01	0.15	62.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.7	21.7	< 0.005	< 0.005	0.03	22.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.36	7.36	< 0.005	< 0.005	0.01	7.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.59	3.59	< 0.005	< 0.005	< 0.005	3.63

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Mobilization (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.83	4.84	33.8	0.06	0.19	—	0.19	0.18	—	0.18	—	6,877	6,877	0.28	0.06	—	6,900
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.60	4.17	0.01	0.02	—	0.02	0.02	—	0.02	—	848	848	0.03	0.01	—	851
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	140	140	0.01	< 0.005	—	141
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	183	183	< 0.005	0.01	0.52	185
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	59.7	59.7	< 0.005	0.01	0.15	62.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.7	21.7	< 0.005	< 0.005	0.03	22.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.36	7.36	< 0.005	< 0.005	0.01	7.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.59	3.59	< 0.005	< 0.005	< 0.005	3.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.22	1.22	< 0.005	< 0.005	< 0.005	1.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Deep Dynamic Compaction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.49	7.97	53.2	61.5	0.19	2.05	—	2.05	1.89	—	1.89	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.49	7.97	53.2	61.5	0.19	2.05	—	2.05	1.89	—	1.89	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	1.82	12.2	14.1	0.04	0.47	—	0.47	0.43	—	0.43	—	4,693	4,693	0.19	0.04	—	4,709

Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.41	0.41	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.33	2.22	2.57	0.01	0.09	—	0.09	0.08	—	0.08	—	777	777	0.03	0.01	—	780
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.60	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.12	1.44	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	371	371	< 0.005	0.01	0.03	376
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.02	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	86.3	86.3	< 0.005	< 0.005	0.11	87.4
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	54.7	54.7	< 0.005	0.01	0.06	57.1

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.02	14.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.06	9.06	< 0.005	< 0.005	0.01	9.46
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Deep Dynamic Compaction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.49	2.91	23.7	0.04	0.10	—	0.10	0.10	—	0.10	—	4,693	4,693	0.19	0.04	—	4,709
Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.41	0.41	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.53	4.32	0.01	0.02	—	0.02	0.02	—	0.02	—	777	777	0.03	0.01	—	780
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.60	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.12	1.44	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	371	371	< 0.005	0.01	0.03	376

Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.02	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	86.3	86.3	< 0.005	< 0.005	0.11	87.4
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	54.7	54.7	< 0.005	0.01	0.06	57.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.02	14.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.06	9.06	< 0.005	< 0.005	0.01	9.46
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Deep Dynamic Compaction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.30	7.81	49.8	60.8	0.19	1.93	—	1.93	1.77	—	1.77	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	9.30	7.81	49.8	60.8	0.19	1.93	—	1.93	1.77	—	1.77	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	6.64	5.58	35.6	43.4	0.14	1.38	—	1.38	1.27	—	1.27	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.21	1.02	6.50	7.92	0.02	0.25	—	0.25	0.23	—	0.23	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.58	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	385	385	< 0.005	0.01	1.00	390
Vendor	0.02	0.01	0.24	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.57	243

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.10	1.34	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	365	365	< 0.005	0.01	0.03	369
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.01	243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.00	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.31	268
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	166	166	0.01	0.02	0.18	174
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.8	43.8	< 0.005	< 0.005	0.05	44.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	0.03	28.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Deep Dynamic Compaction (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.52	9.08	73.8	0.14	0.32	—	0.32	0.31	—	0.31	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.66	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.58	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	385	385	< 0.005	0.01	1.00	390
Vendor	0.02	0.01	0.24	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.57	243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.10	1.34	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	365	365	< 0.005	0.01	0.03	369
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.01	243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.00	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.31	268
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	166	166	0.01	0.02	0.18	174
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.8	43.8	< 0.005	< 0.005	0.05	44.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	0.03	28.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Deep Dynamic Compaction (2030) - Unmitigated

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

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

Off-Road	9.13	7.67	47.8	60.8	0.19	1.87	—	1.87	1.72	—	1.72	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.13	7.67	47.8	60.8	0.19	1.87	—	1.87	1.72	—	1.72	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.52	5.48	34.1	43.5	0.14	1.33	—	1.33	1.23	—	1.23	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19	1.00	6.23	7.93	0.02	0.24	—	0.24	0.22	—	0.22	—	2,424	2,424	0.10	0.02	—	2,432

Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.49	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	379	379	< 0.005	0.01	0.89	384
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.54	236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.25	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	359	359	< 0.005	0.01	0.02	363
Vendor	0.01	< 0.005	0.24	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.01	236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.94	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	260	260	< 0.005	0.01	0.27	264
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	161	161	0.01	0.02	0.17	168
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.1	43.1	< 0.005	< 0.005	0.05	43.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.7	26.7	< 0.005	< 0.005	0.03	27.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Deep Dynamic Compaction (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.52	9.08	73.8	0.14	0.32	—	0.32	0.31	—	0.31	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.66	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.49	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	379	379	< 0.005	0.01	0.89	384
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.54	236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.25	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	359	359	< 0.005	0.01	0.02	363
Vendor	0.01	< 0.005	0.24	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.01	236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.94	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	260	260	< 0.005	0.01	0.27	264
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	161	161	0.01	0.02	0.17	168
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.1	43.1	< 0.005	< 0.005	0.05	43.6

Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.7	26.7	< 0.005	< 0.005	0.03	27.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Deep Dynamic Compaction (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.01	7.57	45.5	60.4	0.19	1.82	—	1.82	1.68	—	1.68	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.01	7.57	45.5	60.4	0.19	1.82	—	1.82	1.68	—	1.68	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	6.44	5.41	32.5	43.1	0.14	1.30	—	1.30	1.20	—	1.20	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.17	0.99	5.93	7.87	0.02	0.24	—	0.24	0.22	—	0.22	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.39	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	< 0.005	< 0.005	0.79	374
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.51	229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.18	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	354	354	< 0.005	0.01	0.02	358
Vendor	0.01	< 0.005	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.01	228
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.88	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	256	256	< 0.005	0.01	0.02	260

Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	156	156	0.01	0.02	0.16	163
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	42.4	42.4	< 0.005	< 0.005	0.04	43.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.8	25.8	< 0.005	< 0.005	0.03	27.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Deep Dynamic Compaction (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567

Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.52	9.07	73.8	0.14	0.32	—	0.32	0.31	—	0.31	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.66	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.39	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	< 0.005	< 0.005	0.79	374
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.51	229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.18	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	354	354	< 0.005	0.01	0.02	358
Vendor	0.01	< 0.005	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.01	228
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.88	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	256	256	< 0.005	0.01	0.24	260
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	156	156	0.01	0.02	0.16	163
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	42.4	42.4	< 0.005	< 0.005	0.04	43.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.8	25.8	< 0.005	< 0.005	0.03	27.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Deep Dynamic Compaction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.79	7.39	42.6	58.8	0.19	1.69	—	1.69	1.55	—	1.55	—	20,497	20,497	0.83	0.17	—	20,568

Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.19	6.83	9.44	0.03	0.27	—	0.27	0.25	—	0.25	—	3,289	3,289	0.13	0.03	—	3,300
Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.25	1.72	0.01	0.05	—	0.05	0.05	—	0.05	—	545	545	0.02	< 0.005	—	546
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.11	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	349	349	< 0.005	< 0.005	0.02	350

Vendor	0.01	< 0.005	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	211	211	0.01	0.03	0.01	220
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.8	56.8	< 0.005	< 0.005	0.05	57.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.9	33.9	< 0.005	< 0.005	0.03	35.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.40	9.40	< 0.005	< 0.005	0.01	9.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.61	5.61	< 0.005	< 0.005	0.01	5.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Deep Dynamic Compaction (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.34	2.04	16.6	0.03	0.07	—	0.07	0.07	—	0.07	—	3,289	3,289	0.13	0.03	—	3,300
Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.37	3.03	0.01	0.01	—	0.01	0.01	—	0.01	—	545	545	0.02	< 0.005	—	546
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.11	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	349	349	< 0.005	< 0.005	0.02	350
Vendor	0.01	< 0.005	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	211	211	0.01	0.03	0.01	220
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.8	56.8	< 0.005	< 0.005	0.05	57.6

Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.9	33.9	< 0.005	< 0.005	0.03	35.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.40	9.40	< 0.005	< 0.005	0.01	9.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.61	5.61	< 0.005	< 0.005	0.01	5.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Haul Excess Material (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	16.0	18.5	0.03	0.60	—	0.60	0.56	—	0.56	—	3,084	3,084	0.13	0.03	—	3,095
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	16.0	18.5	0.03	0.60	—	0.60	0.56	—	0.56	—	3,084	3,084	0.13	0.03	—	3,095

Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	3.67	4.23	0.01	0.14	—	0.14	0.13	—	0.13	—	706	706	0.03	0.01	—	709
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.67	0.77	< 0.005	0.03	—	0.03	0.02	—	0.02	—	117	117	< 0.005	< 0.005	—	117
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.60	250
Hauling	0.33	0.08	5.70	2.27	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,849	4,849	0.25	0.77	9.80	5,096

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.12	1.44	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	371	371	< 0.005	0.01	0.03	376
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.02	249
Hauling	0.32	0.07	5.92	2.29	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,852	4,852	0.25	0.77	0.25	5,089
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	86.3	86.3	< 0.005	< 0.005	0.11	87.4
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	54.7	54.7	< 0.005	0.01	0.06	57.1
Hauling	0.08	0.02	1.37	0.52	0.01	0.02	0.31	0.33	0.02	0.09	0.10	—	1,111	1,111	0.06	0.18	0.97	1,166
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.02	14.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.06	9.06	< 0.005	< 0.005	0.01	9.46
Hauling	0.01	< 0.005	0.25	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	184	184	0.01	0.03	0.16	193

3.18. Haul Excess Material (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,084	3,084	0.13	0.03	—	3,095
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,084	3,084	0.13	0.03	—	3,095
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	1.28	4.17	0.01	0.03	—	0.03	0.03	—	0.03	—	706	706	0.03	0.01	—	709
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.23	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	117	117	< 0.005	< 0.005	—	117
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.60	250
Hauling	0.33	0.08	5.70	2.27	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,849	4,849	0.25	0.77	9.80	5,096
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.12	1.44	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	371	371	< 0.005	0.01	0.03	376
Vendor	0.02	0.01	0.26	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.02	249
Hauling	0.32	0.07	5.92	2.29	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,852	4,852	0.25	0.77	0.25	5,089
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	86.3	86.3	< 0.005	< 0.005	0.11	87.4
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	54.7	54.7	< 0.005	0.01	0.06	57.1
Hauling	0.08	0.02	1.37	0.52	0.01	0.02	0.31	0.33	0.02	0.09	0.10	—	1,111	1,111	0.06	0.18	0.97	1,166
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.3	14.3	< 0.005	< 0.005	0.02	14.5
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.06	9.06	< 0.005	< 0.005	0.01	9.46
Hauling	0.01	< 0.005	0.25	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	184	184	0.01	0.03	0.16	193

3.19. Haul Excess Material (2029) - Unmitigated

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

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

Off-Road	2.16	1.81	15.4	18.4	0.03	0.57	—	0.57	0.53	—	0.53	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.81	15.4	18.4	0.03	0.57	—	0.57	0.53	—	0.53	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.54	1.29	11.0	13.1	0.02	0.41	—	0.41	0.38	—	0.38	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.01	2.40	< 0.005	0.07	—	0.07	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366

Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.58	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	385	385	< 0.005	0.01	1.00	390
Vendor	0.02	0.01	0.24	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.57	243
Hauling	0.33	0.08	5.49	2.24	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,734	4,734	0.25	0.74	9.10	4,970
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.10	1.34	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	365	365	< 0.005	0.01	0.03	369
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.01	243
Hauling	0.32	0.07	5.71	2.23	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,736	4,736	0.24	0.74	0.24	4,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.00	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.31	268
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	166	166	0.01	0.02	0.18	174
Hauling	0.23	0.06	4.13	1.61	0.02	0.05	0.98	1.02	0.05	0.27	0.31	—	3,382	3,382	0.18	0.53	2.80	3,547
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.8	43.8	< 0.005	< 0.005	0.05	44.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	0.03	28.7
Hauling	0.04	0.01	0.75	0.29	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	560	560	0.03	0.09	0.46	587

3.20. Haul Excess Material (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.36	4.00	13.0	0.02	0.08	—	0.08	0.08	—	0.08	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.73	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.58	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	385	385	< 0.005	0.01	1.00	390
Vendor	0.02	0.01	0.24	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.57	243
Hauling	0.33	0.08	5.49	2.24	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,734	4,734	0.25	0.74	9.10	4,970
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.10	1.34	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	365	365	< 0.005	0.01	0.03	369
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	233	233	0.01	0.03	0.01	243
Hauling	0.32	0.07	5.71	2.23	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,736	4,736	0.24	0.74	0.24	4,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.00	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	265	265	< 0.005	0.01	0.31	268
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	166	166	0.01	0.02	0.18	174
Hauling	0.23	0.06	4.13	1.61	0.02	0.05	0.98	1.02	0.05	0.27	0.31	—	3,382	3,382	0.18	0.53	2.80	3,547
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.8	43.8	< 0.005	< 0.005	0.05	44.4

Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.5	27.5	< 0.005	< 0.005	0.03	28.7
Hauling	0.04	0.01	0.75	0.29	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	560	560	0.03	0.09	0.46	587

3.21. Haul Excess Material (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.08	1.75	15.2	18.5	0.03	0.55	—	0.55	0.51	—	0.51	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.08	1.75	15.2	18.5	0.03	0.55	—	0.55	0.51	—	0.51	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.49	1.25	10.8	13.2	0.02	0.39	—	0.39	0.36	—	0.36	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.27	0.23	1.98	2.41	< 0.005	0.07	—	0.07	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.49	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	379	379	< 0.005	0.01	0.89	384
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.54	236
Hauling	0.33	0.08	5.31	2.18	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,618	4,618	0.21	0.74	8.40	4,853
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.25	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	359	359	< 0.005	0.01	0.02	363
Vendor	0.01	< 0.005	0.24	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.01	236
Hauling	0.32	0.07	5.53	2.20	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,621	4,621	0.21	0.74	0.22	4,847
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.94	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	260	260	< 0.005	0.01	0.02	264

Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	161	161	0.01	0.02	0.17	168
Hauling	0.23	0.06	3.98	1.56	0.02	0.05	0.98	1.02	0.05	0.27	0.31	—	3,299	3,299	0.15	0.53	2.58	3,464
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.1	43.1	< 0.005	< 0.005	0.05	43.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.7	26.7	< 0.005	< 0.005	0.03	27.9
Hauling	0.04	0.01	0.73	0.28	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	546	546	0.03	0.09	0.43	573

3.22. Haul Excess Material (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094

Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.36	4.00	13.0	0.02	0.08	—	0.08	0.08	—	0.08	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.73	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.49	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	379	379	< 0.005	0.01	0.89	384
Vendor	0.01	0.01	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.54	236
Hauling	0.33	0.08	5.31	2.18	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,618	4,618	0.21	0.74	8.40	4,853

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.25	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	359	359	< 0.005	0.01	0.02	363
Vendor	0.01	< 0.005	0.24	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	226	226	0.01	0.03	0.01	236
Hauling	0.32	0.07	5.53	2.20	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,621	4,621	0.21	0.74	0.22	4,847
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.94	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	260	260	< 0.005	0.01	0.27	264
Vendor	0.01	< 0.005	0.17	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	161	161	0.01	0.02	0.17	168
Hauling	0.23	0.06	3.98	1.56	0.02	0.05	0.98	1.02	0.05	0.27	0.31	—	3,299	3,299	0.15	0.53	2.58	3,464
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.1	43.1	< 0.005	< 0.005	0.05	43.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.7	26.7	< 0.005	< 0.005	0.03	27.9
Hauling	0.04	0.01	0.73	0.28	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	546	546	0.03	0.09	0.43	573

3.23. Haul Excess Material (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	1.70	14.8	18.2	0.03	0.53	—	0.53	0.49	—	0.49	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	1.70	14.8	18.2	0.03	0.53	—	0.53	0.49	—	0.49	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.22	10.6	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.93	2.38	< 0.005	0.07	—	0.07	0.06	—	0.06	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.39	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	< 0.005	< 0.005	0.79	374
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.51	229
Hauling	0.30	0.08	5.14	2.11	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,500	4,500	0.21	0.71	7.69	4,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.18	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	354	354	< 0.005	0.01	0.02	358
Vendor	0.01	< 0.005	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.01	228
Hauling	0.29	0.07	5.36	2.13	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,503	4,503	0.21	0.71	0.20	4,719
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.88	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	256	256	< 0.005	0.01	0.24	260
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	156	156	0.01	0.02	0.16	163
Hauling	0.21	0.06	3.85	1.51	0.02	0.05	0.98	1.02	0.05	0.27	0.31	—	3,215	3,215	0.15	0.51	2.37	3,372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	42.4	42.4	< 0.005	< 0.005	0.04	43.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.8	25.8	< 0.005	< 0.005	0.03	27.0
Hauling	0.04	0.01	0.70	0.28	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	532	532	0.03	0.08	0.39	558

3.24. Haul Excess Material (2031) - Mitigated

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

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

Off-Road	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.36	3.99	13.0	0.02	0.08	—	0.08	0.08	—	0.08	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.73	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366

Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.39	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	< 0.005	< 0.005	0.79	374
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.51	229
Hauling	0.30	0.08	5.14	2.11	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,500	4,500	0.21	0.71	7.69	4,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.18	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	354	354	< 0.005	0.01	0.02	358
Vendor	0.01	< 0.005	0.23	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.01	228
Hauling	0.29	0.07	5.36	2.13	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,503	4,503	0.21	0.71	0.20	4,719
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.88	0.00	0.00	0.28	0.28	0.00	0.06	0.06	—	256	256	< 0.005	0.01	0.24	260
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	156	156	0.01	0.02	0.16	163
Hauling	0.21	0.06	3.85	1.51	0.02	0.05	0.98	1.02	0.05	0.27	0.31	—	3,215	3,215	0.15	0.51	2.37	3,372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	42.4	42.4	< 0.005	< 0.005	0.04	43.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.8	25.8	< 0.005	< 0.005	0.03	27.0
Hauling	0.04	0.01	0.70	0.28	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	532	532	0.03	0.08	0.39	558

3.25. Haul Excess Material (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.5	0.03	0.47	—	0.47	0.44	—	0.44	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.26	2.26	2.81	< 0.005	0.08	—	0.08	0.07	—	0.07	—	495	495	0.02	< 0.005	—	496
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.41	0.51	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.9	81.9	< 0.005	< 0.005	—	82.2

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.11	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	349	349	< 0.005	< 0.005	0.02	350
Vendor	0.01	< 0.005	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	211	211	0.01	0.03	0.01	220
Hauling	0.29	0.07	5.19	2.07	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,387	4,387	0.21	0.71	0.18	4,603
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.8	56.8	< 0.005	< 0.005	0.05	57.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.9	33.9	< 0.005	< 0.005	0.03	35.4
Hauling	0.05	0.01	0.84	0.33	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	704	704	0.03	0.11	0.49	739
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.40	9.40	< 0.005	< 0.005	0.01	9.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.61	5.61	< 0.005	< 0.005	0.01	5.85
Hauling	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	117	117	0.01	0.02	0.08	122

3.26. Haul Excess Material (2032) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.90	2.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	495	495	0.02	< 0.005	—	496
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.16	0.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	81.9	81.9	< 0.005	< 0.005	—	82.2
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.11	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	349	349	< 0.005	< 0.005	0.02	350
Vendor	0.01	< 0.005	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	211	211	0.01	0.03	0.01	220
Hauling	0.29	0.07	5.19	2.07	0.03	0.07	1.38	1.45	0.07	0.38	0.44	—	4,387	4,387	0.21	0.71	0.18	4,603
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.19	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	56.8	56.8	< 0.005	< 0.005	0.05	57.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33.9	33.9	< 0.005	< 0.005	0.03	35.4
Hauling	0.05	0.01	0.84	0.33	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	704	704	0.03	0.11	0.49	739
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.40	9.40	< 0.005	< 0.005	0.01	9.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.61	5.61	< 0.005	< 0.005	0.01	5.85
Hauling	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	117	117	0.01	0.02	0.08	122

3.27. Crush Concrete (2028) - Unmitigated

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

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

Off-Road Equipment	6.17	5.19	33.8	47.6	0.13	1.19	—	1.19	1.10	—	1.10	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.17	5.19	33.8	47.6	0.13	1.19	—	1.19	1.10	—	1.10	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.19	7.74	10.9	0.03	0.27	—	0.27	0.25	—	0.25	—	3,245	3,245	0.13	0.03	—	3,256
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.26	0.22	1.41	1.99	0.01	0.05	—	0.05	0.05	—	0.05	—	537	537	0.02	< 0.005	—	539
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	183	183	< 0.005	0.01	0.52	185
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	< 0.005	0.02	0.30	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.67	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	173	173	< 0.005	0.01	0.01	175
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.01	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.3	40.3	< 0.005	< 0.005	0.05	40.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.4	27.4	< 0.005	< 0.005	0.03	28.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.66	6.66	< 0.005	< 0.005	0.01	6.75
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.53	4.53	< 0.005	< 0.005	< 0.005	4.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Crush Concrete (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.66	17.8	62.5	0.13	0.48	—	0.48	0.46	—	0.46	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.66	17.8	62.5	0.13	0.48	—	0.48	0.46	—	0.46	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.61	4.06	14.3	0.03	0.11	—	0.11	0.10	—	0.10	—	3,245	3,245	0.13	0.03	—	3,256

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.11	0.74	2.61	0.01	0.02	—	0.02	0.02	—	0.02	—	537	537	0.02	< 0.005	—	539
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.79	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	183	183	< 0.005	0.01	0.52	185
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	< 0.005	0.02	0.30	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.67	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	173	173	< 0.005	0.01	0.01	175
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	120	120	< 0.005	0.02	0.01	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.3	40.3	< 0.005	< 0.005	0.05	40.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.4	27.4	< 0.005	< 0.005	0.03	28.6

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.66	6.66	< 0.005	< 0.005	0.01	6.75
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.53	4.53	< 0.005	< 0.005	< 0.005	4.73
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Crush Concrete (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.06	5.09	32.1	47.3	0.13	1.10	—	1.10	1.01	—	1.01	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.06	5.09	32.1	47.3	0.13	1.10	—	1.10	1.01	—	1.01	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.33	3.64	22.9	33.8	0.09	0.79	—	0.79	0.72	—	0.72	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	4.19	6.17	0.02	0.14	—	0.14	0.13	—	0.13	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.74	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	0.01	0.47	182
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.28	122
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.63	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	170	170	< 0.005	0.01	0.01	172

Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.01	122
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.47	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.14	125
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	83.1	83.1	< 0.005	0.01	0.09	86.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.4	20.4	< 0.005	< 0.005	0.02	20.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Crush Concrete (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.96	2.63	17.1	62.4	0.13	0.46	—	0.46	0.44	—	0.44	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	2.96	2.63	17.1	62.4	0.13	0.46	—	0.46	0.44	—	0.44	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	2.11	1.88	12.2	44.5	0.09	0.33	—	0.33	0.31	—	0.31	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.39	0.34	2.23	8.13	0.02	0.06	—	0.06	0.06	—	0.06	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.74	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	0.01	0.47	182
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.28	122

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.63	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	170	170	< 0.005	0.01	0.01	172
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.01	122
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.47	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.14	125
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	83.1	83.1	< 0.005	0.01	0.09	86.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.4	20.4	< 0.005	< 0.005	0.02	20.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Crush Concrete (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.91	4.97	31.0	47.2	0.13	1.04	—	1.04	0.96	—	0.96	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.91	4.97	31.0	47.2	0.13	1.04	—	1.04	0.96	—	0.96	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.22	3.55	22.1	33.7	0.09	0.75	—	0.75	0.69	—	0.69	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	4.04	6.15	0.02	0.14	—	0.14	0.13	—	0.13	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.69	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	177	177	< 0.005	0.01	0.41	179
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.27	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.58	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	168	168	< 0.005	0.01	0.01	170
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.01	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	0.13	123
Vendor	< 0.005	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	80.6	80.6	< 0.005	0.01	0.08	84.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.1	20.1	< 0.005	< 0.005	0.02	20.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.32. Crush Concrete (2030) - Mitigated

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

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

Off-Road	2.92	2.60	16.6	62.3	0.13	0.45	—	0.45	0.43	—	0.43	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.92	2.60	16.6	62.3	0.13	0.45	—	0.45	0.43	—	0.43	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09	1.86	11.9	44.5	0.09	0.32	—	0.32	0.30	—	0.30	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.34	2.17	8.12	0.02	0.06	—	0.06	0.06	—	0.06	—	1,676	1,676	0.07	0.01	—	1,682

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.69	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	177	177	< 0.005	0.01	0.41	179
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.27	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.58	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	168	168	< 0.005	0.01	0.01	170
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.01	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	0.13	123
Vendor	< 0.005	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	80.6	80.6	< 0.005	0.01	0.08	84.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.1	20.1	< 0.005	< 0.005	0.02	20.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.33. Crush Concrete (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.78	4.86	29.6	47.1	0.13	0.98	—	0.98	0.90	—	0.90	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.78	4.86	29.6	47.1	0.13	0.98	—	0.98	0.90	—	0.90	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.13	3.47	21.1	33.6	0.09	0.70	—	0.70	0.64	—	0.64	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	3.85	6.14	0.02	0.13	—	0.13	0.12	—	0.12	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.65	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	174	174	< 0.005	< 0.005	0.37	175
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	109	109	< 0.005	0.02	0.25	114
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.55	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	165	165	< 0.005	0.01	0.01	167
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	109	109	< 0.005	0.02	0.01	114
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.11	121
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.0	78.0	< 0.005	0.01	0.08	81.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.8	19.8	< 0.005	< 0.005	0.02	20.1

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.01	13.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.34. Crush Concrete (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.91	2.59	16.1	62.3	0.13	0.44	—	0.44	0.42	—	0.42	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.91	2.59	16.1	62.3	0.13	0.44	—	0.44	0.42	—	0.42	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	2.08	1.85	11.5	44.5	0.09	0.32	—	0.32	0.30	—	0.30	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.38	0.34	2.11	8.12	0.02	0.06	—	0.06	0.05	—	0.05	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.65	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	174	174	< 0.005	< 0.005	0.37	175
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	109	109	< 0.005	0.02	0.25	114
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.55	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	165	165	< 0.005	0.01	0.01	167
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	109	109	< 0.005	0.02	0.01	114
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.01	121

Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	78.0	78.0	< 0.005	0.01	0.08	81.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.8	19.8	< 0.005	< 0.005	0.02	20.1
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.01	13.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.35. Crush Concrete (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.68	4.77	28.4	47.0	0.13	0.92	—	0.92	0.84	—	0.84	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	4.55	7.55	0.02	0.15	—	0.15	0.14	—	0.14	—	2,275	2,275	0.09	0.02	—	2,283

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.83	1.38	< 0.005	0.03	—	0.03	0.02	—	0.02	—	377	377	0.02	< 0.005	—	378
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.52	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	163	163	< 0.005	< 0.005	0.01	163
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	106	106	< 0.005	0.02	0.01	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.5	26.5	< 0.005	< 0.005	0.02	26.9
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	< 0.005	4.45

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.36. Crush Concrete (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.89	2.57	15.7	62.3	0.13	0.43	—	0.43	0.41	—	0.41	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.41	2.52	10.00	0.02	0.07	—	0.07	0.07	—	0.07	—	2,275	2,275	0.09	0.02	—	2,283
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.46	1.82	< 0.005	0.01	—	0.01	0.01	—	0.01	—	377	377	0.02	< 0.005	—	378
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.52	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	163	163	< 0.005	< 0.005	0.01	163
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	106	106	< 0.005	0.02	0.01	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.5	26.5	< 0.005	< 0.005	0.02	26.9
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	< 0.005	4.45
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.93
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.37. Drainage (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.88	1.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.88	1.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.79	5.79	< 0.005	< 0.005	—	5.81
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.61	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	172	172	< 0.005	< 0.005	0.32	172
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	0.24	110

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.52	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	163	163	< 0.005	< 0.005	0.01	163
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	106	106	< 0.005	0.02	0.01	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.9	19.9	< 0.005	< 0.005	0.02	20.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.01	13.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.30	3.30	< 0.005	< 0.005	< 0.005	3.34
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.11	2.11	< 0.005	< 0.005	< 0.005	2.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.38. Drainage (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.14	2.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Architect Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.14	2.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A-90	—

Off-Roa Equipment	< 0.005	< 0.005	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.79	5.79	< 0.005	< 0.005	—	5.81
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.61	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	172	172	< 0.005	< 0.005	0.32	172
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	105	105	< 0.005	0.02	0.24	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.52	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	163	163	< 0.005	< 0.005	0.01	163
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	106	106	< 0.005	0.02	0.01	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.9	19.9	< 0.005	< 0.005	0.02	20.2
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.7	12.7	< 0.005	< 0.005	0.01	13.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.30	3.30	< 0.005	< 0.005	< 0.005	3.34
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.11	2.11	< 0.005	< 0.005	< 0.005	2.20

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.39. Clean up (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63	2.21	9.66	15.8	0.06	0.36	—	0.36	0.33	—	0.33	—	6,843	6,843	0.28	0.06	—	6,867
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	0.58	0.95	< 0.005	0.02	—	0.02	0.02	—	0.02	—	412	412	0.02	< 0.005	—	414
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.03	0.02	0.11	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.23	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.11	7.11	< 0.005	< 0.005	0.01	7.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.40. Clean up (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	~~A~~93	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.66	4.08	34.0	0.06	0.13	—	0.13	0.13	—	0.13	—	6,843	6,843	0.28	0.06	—	6,867
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.25	2.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	412	412	0.02	< 0.005	—	414
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.23	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.11	7.11	< 0.005	< 0.005	0.01	7.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A-99	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/5/2028	8/4/2028	5.00	45.0	—
Site Preparation	Site Preparation	8/7/2028	9/5/2028	5.00	22.0	—
Mobilization	Site Preparation	4/3/2028	6/2/2028	5.00	45.0	Mobilization - Phase 2
Deep Dynamic Compaction	Grading	9/6/2028	3/22/2032	5.00	924	Deep Dynamic Compaction
Haul Excess Material	Grading	9/6/2028	3/22/2032	5.00	924	Haul Excess Material
Crush Concrete	Grading	9/6/2028	3/22/2032	5.00	924	Crush ConcreteCrush Concrete
Drainage	Grading	3/23/2032	5/21/2032	5.00	44.0	Drainage
Clean up	Grading	5/24/2032	6/22/2032	5.00	22.0	Clean up

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
Demolition	Off-Highway Trucks	Diesel	Average	15.0	8.00	376	0.38
Demolition	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Average	3.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Demolition	Sweepers/Scrubbers	Diesel	Average	2.00	8.00	36.0	0.46
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Mobilization	Off-Highway Trucks	Diesel	Average	5.00	8.00	376	0.38
Deep Dynamic Compaction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Deep Dynamic Compaction	Off-Highway Trucks	Diesel	Average	10.0	8.00	376	0.38
Deep Dynamic Compaction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Deep Dynamic Compaction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Deep Dynamic Compaction	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Deep Dynamic Compaction	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Deep Dynamic Compaction	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Deep Dynamic Compaction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Haul Excess Material	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Haul Excess Material	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Haul Excess Material	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Haul Excess Material	Sweepers/Scrubbers	Diesel	Average	2.00	8.00	36.0	0.46
Haul Excess Material	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37

Crush Concrete	Excavators	Diesel	Average	4.00	8.00	36.0	0.38
Crush Concrete	Off-Highway Trucks	Diesel	Average	8.00	8.00	376	0.38
Crush Concrete	Other Construction Equipment	Diesel	Average	4.00	8.00	82.0	0.42
Crush Concrete	Other General Industrial Equipment	Diesel	Average	4.00	8.00	35.0	0.34
Crush Concrete	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Drainage	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Clean up	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Clean up	Off-Highway Trucks	Diesel	Average	5.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
Demolition	Off-Highway Trucks	Diesel	Tier 4 Final	15.0	8.00	376	0.38
Demolition	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	3.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	82.0	0.42
Demolition	Sweepers/Scrubbers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.46
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Site Preparation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74

Mobilization	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	8.00	376	0.38
Deep Dynamic Compaction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Deep Dynamic Compaction	Off-Highway Trucks	Diesel	Tier 4 Final	10.0	8.00	376	0.38
Deep Dynamic Compaction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Deep Dynamic Compaction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Deep Dynamic Compaction	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Deep Dynamic Compaction	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Deep Dynamic Compaction	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Deep Dynamic Compaction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Haul Excess Material	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Haul Excess Material	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Haul Excess Material	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Haul Excess Material	Sweepers/Scrubbers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.46
Haul Excess Material	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Crush Concrete	Excavators	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Crush Concrete	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Crush Concrete	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Crush Concrete	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	82.0	0.42
Crush Concrete	Other General Industrial Equipment	Diesel	Tier 4 Final	4.00	8.00	35.0	0.34
Crush Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37

Drainage	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Clean up	Sweepers/Scrubbers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.46
Clean up	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	12.0	10.2	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	20.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	6.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Deep Dynamic Compaction	—	—	—	—
Deep Dynamic Compaction	Worker	30.0	18.5	LDA,LDT1,LDT2
Deep Dynamic Compaction	Vendor	8.00	10.2	HHDT,MHDT
Deep Dynamic Compaction	Hauling	0.00	20.0	HHDT
Deep Dynamic Compaction	Onsite truck	0.00	—	HHDT
Haul Excess Material	—	—	—	—
Haul Excess Material	Worker	30.0	18.5	LDA,LDT1,LDT2
Haul Excess Material	Vendor	8.00	10.2	HHDT,MHDT
Haul Excess Material	Hauling	74.4	20.0	HHDT
Haul Excess Material	Onsite truck	0.00	—	HHDT

Crush Concrete	—	—	—	—
Crush Concrete	Worker	14.0	18.5	LDA,LDT1,LDT2
Crush Concrete	Vendor	4.00	10.2	HHDT,MHDT
Crush Concrete	Hauling	0.00	20.0	HHDT
Crush Concrete	Onsite truck	0.00	—	HHDT
Drainage	—	—	—	—
Drainage	Worker	14.0	18.5	LDA,LDT1,LDT2
Drainage	Vendor	4.00	10.2	HHDT,MHDT
Drainage	Hauling	0.00	20.0	HHDT
Drainage	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	18.5	LDA,LDT1,LDT2
Mobilization	Vendor	2.00	10.2	HHDT,MHDT
Mobilization	Hauling	0.00	20.0	HHDT
Mobilization	Onsite truck	0.00	—	HHDT
Clean up	—	—	—	—
Clean up	Worker	10.0	18.5	LDA,LDT1,LDT2
Clean up	Vendor	0.00	10.2	HHDT,MHDT
Clean up	Hauling	0.00	20.0	HHDT
Clean up	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	12.0	10.2	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	20.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	6.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Deep Dynamic Compaction	—	—	—	—
Deep Dynamic Compaction	Worker	30.0	18.5	LDA,LDT1,LDT2
Deep Dynamic Compaction	Vendor	8.00	10.2	HHDT,MHDT
Deep Dynamic Compaction	Hauling	0.00	20.0	HHDT
Deep Dynamic Compaction	Onsite truck	0.00	—	HHDT
Haul Excess Material	—	—	—	—
Haul Excess Material	Worker	30.0	18.5	LDA,LDT1,LDT2
Haul Excess Material	Vendor	8.00	10.2	HHDT,MHDT
Haul Excess Material	Hauling	74.4	20.0	HHDT
Haul Excess Material	Onsite truck	0.00	—	HHDT
Crush Concrete	—	—	—	—
Crush Concrete	Worker	14.0	18.5	LDA,LDT1,LDT2
Crush Concrete	Vendor	4.00	10.2	HHDT,MHDT
Crush Concrete	Hauling	0.00	20.0	HHDT
Crush Concrete	Onsite truck	0.00	—	HHDT
Drainage	—	—	—	—
Drainage	Worker	14.0	18.5	LDA,LDT1,LDT2
Drainage	Vendor	4.00	10.2	HHDT,MHDT
Drainage	Hauling	0.00	20.0	HHDT
Drainage	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	18.5	LDA,LDT1,LDT2
Mobilization	Vendor	2.00	10.2	HHDT,MHDT

Mobilization	Hauling	0.00	20.0	HHDT
Mobilization	Onsite truck	0.00	—	HHDT
Clean up	—	—	—	—
Clean up	Worker	10.0	18.5	LDA,LDT1,LDT2
Clean up	Vendor	0.00	10.2	HHDT,MHDT
Clean up	Hauling	0.00	20.0	HHDT
Clean up	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Drainage	0.00	0.00	0.00	0.00	59,303

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	0.00	0.00	0.00	—
Mobilization	0.00	0.00	0.00	0.00	—

Deep Dynamic Compaction	0.00	0.00	1,960	0.00	—
Haul Excess Material	0.00	550,000	490	0.00	—
Crush Concrete	0.00	0.00	0.00	0.00	—
Drainage	0.00	0.00	0.00	0.00	—
Clean up	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Non-Asphalt Surfaces	21.3	0%
Parking Lot	1.44	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	0.00	690	0.05	0.01
2029	0.00	690	0.05	0.01
2030	0.00	690	0.05	0.01
2031	0.00	690	0.05	0.01
2032	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7

AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802

Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9

High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6

Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.

Rory M. Shaw Wetlands Park Phase 3 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Mobilization (2033) - Unmitigated

3.2. Mobilization (2033) - Mitigated

3.3. Recreational Amenities (Building Construction) (2034) - Unmitigated

3.4. Recreational Amenities (Building Construction) (2034) - Mitigated

3.5. Recreational Amenities (Building Construction) (2035) - Unmitigated

3.6. Recreational Amenities (Building Construction) (2035) - Mitigated

3.7. Recreational Amenities (Paving) (2035) - Unmitigated

3.8. Recreational Amenities (Paving) (2035) - Mitigated

3.9. Recreational Amenities (Arch Coating) (2035) - Unmitigated

3.10. Recreational Amenities (Arch Coating) (2035) - Mitigated

3.11. Passive Methane Capture (2033) - Unmitigated

3.12. Passive Methane Capture (2033) - Mitigated

3.13. Passive Methane Capture (2034) - Unmitigated

3.14. Passive Methane Capture (2034) - Mitigated

3.15. Trenching for Utilities (2034) - Unmitigated

3.16. Trenching for Utilities (2034) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Rory M. Shaw Wetlands Park Phase 3
Construction Start Date	9/3/2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	15.0	Acre	15.0	0.00	653,400	653,400	—	—
Other Non-Asphalt Surfaces	21.0	Acre	21.0	0.00	0.00	0.00	—	—

Parking Lot	160	Space	1.44	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	10.0	Acre	10.0	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.51	7.45	8.22	15.7	0.03	0.20	0.74	0.94	0.18	0.18	0.36	—	3,459	3,459	0.12	0.06	1.01	3,480
Mit.	7.25	7.25	3.24	18.2	0.03	0.08	0.74	0.82	0.08	0.18	0.25	—	3,459	3,459	0.12	0.06	1.01	3,480
% Reduced	4%	3%	61%	-15%	—	60%	—	13%	58%	—	29%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.51	7.45	9.78	16.0	0.06	0.38	0.74	0.95	0.35	0.18	0.39	—	7,091	7,091	0.28	0.06	0.04	7,117
Mit.	7.25	7.25	4.91	34.3	0.06	0.19	0.74	0.82	0.18	0.18	0.25	—	7,091	7,091	0.28	0.06	0.04	7,117
% Reduced	4%	3%	50%	-114%	—	50%	—	14%	48%	—	35%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.56	1.48	3.31	6.08	0.01	0.08	0.25	0.32	0.07	0.06	0.13	—	1,217	1,217	0.04	0.02	0.14	1,224
Mit.	1.26	1.25	1.43	6.76	0.01	0.03	0.25	0.27	0.02	0.06	0.08	—	1,217	1,217	0.04	0.02	0.14	1,224
% Reduced	19%	16%	57%	-11%	—	66%	—	15%	64%	—	35%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.28	0.27	0.60	1.11	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	202	202	0.01	< 0.005	0.02	203
Mit.	0.23	0.23	0.26	1.23	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	202	202	0.01	< 0.005	0.02	203
% Reduced	19%	16%	57%	-11%	—	66%	—	15%	64%	—	35%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.30	0.25	2.30	4.90	0.01	0.04	0.13	0.17	0.04	0.03	0.07	—	804	804	0.03	0.01	0.18	806

2035	7.51	7.45	8.22	15.7	0.03	0.20	0.74	0.94	0.18	0.18	0.36	—	3,459	3,459	0.12	0.06	1.01	3,480
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	2.75	2.30	9.78	16.0	0.06	0.38	0.20	0.58	0.35	0.05	0.39	—	7,091	7,091	0.28	0.06	0.01	7,117
2034	1.24	1.05	8.47	15.6	0.03	0.21	0.74	0.95	0.19	0.18	0.37	—	3,443	3,443	0.12	0.06	0.04	3,464
2035	7.51	7.45	8.25	15.5	0.03	0.20	0.74	0.94	0.18	0.18	0.36	—	3,428	3,428	0.12	0.06	0.03	3,449
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.34	0.29	1.28	2.16	0.01	0.05	0.03	0.07	0.04	0.01	0.05	—	892	892	0.04	0.01	0.02	895
2034	0.36	0.30	2.60	5.16	0.01	0.06	0.18	0.24	0.05	0.04	0.10	—	993	993	0.04	0.01	0.14	998
2035	1.56	1.48	3.31	6.08	0.01	0.08	0.25	0.32	0.07	0.06	0.13	—	1,217	1,217	0.04	0.02	0.14	1,224
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.06	0.05	0.23	0.39	< 0.005	0.01	0.01	0.01	0.01	< 0.005	0.01	—	148	148	0.01	< 0.005	< 0.005	148
2034	0.06	0.05	0.47	0.94	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	164	164	0.01	< 0.005	0.02	165
2035	0.28	0.27	0.60	1.11	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	202	202	0.01	< 0.005	0.02	203

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.09	0.09	0.79	5.17	0.01	0.01	0.13	0.14	0.01	0.03	0.04	—	804	804	0.03	0.01	0.18	806
2035	7.25	7.25	3.24	18.2	0.03	0.08	0.74	0.82	0.08	0.18	0.25	—	3,459	3,459	0.12	0.06	1.01	3,480
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.91	0.86	4.91	34.3	0.06	0.19	0.20	0.39	0.18	0.05	0.23	—	7,091	7,091	0.28	0.06	0.01	7,117
2034	0.50	0.47	3.28	18.0	0.03	0.08	0.74	0.82	0.08	0.18	0.25	—	3,443	3,443	0.12	0.06	0.04	3,464
2035	7.25	7.25	3.27	17.9	0.03	0.08	0.74	0.82	0.08	0.18	0.25	—	3,428	3,428	0.12	0.06	0.03	3,449

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.11	0.11	0.61	4.38	0.01	0.02	0.03	0.05	0.02	0.01	0.03	—	892	892	0.04	0.01	0.02	895
2034	0.13	0.13	0.91	5.71	0.01	0.02	0.18	0.20	0.02	0.04	0.06	—	993	993	0.04	0.01	0.14	998
2035	1.26	1.25	1.43	6.76	0.01	0.03	0.25	0.27	0.02	0.06	0.08	—	1,217	1,217	0.04	0.02	0.14	1,224
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.02	0.02	0.11	0.80	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	—	148	148	0.01	< 0.005	< 0.005	148
2034	0.02	0.02	0.17	1.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	164	164	0.01	< 0.005	0.02	165
2035	0.23	0.23	0.26	1.23	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	202	202	0.01	< 0.005	0.02	203

3. Construction Emissions Details

3.1. Mobilization (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.70	2.27	9.70	15.5	0.06	0.38	—	0.38	0.35	—	0.35	—	6,879	6,879	0.28	0.06	—	6,903
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	1.17	1.87	0.01	0.05	—	0.05	0.04	—	0.04	—	829	829	0.03	0.01	—	832
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.21	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.49	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	0.01	161
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.0	51.0	< 0.005	0.01	< 0.005	53.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	0.01	19.7

Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.14	6.14	< 0.005	< 0.005	0.01	6.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.25	3.25	< 0.005	< 0.005	< 0.005	3.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Mobilization (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.82	4.83	33.8	0.06	0.19	—	0.19	0.18	—	0.18	—	6,879	6,879	0.28	0.06	—	6,903
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	0.58	4.07	0.01	0.02	—	0.02	0.02	—	0.02	—	829	829	0.03	0.01	—	832

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	137	137	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.49	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	0.01	161
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	51.0	51.0	< 0.005	0.01	< 0.005	53.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	19.7	19.7	< 0.005	< 0.005	0.01	19.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.14	6.14	< 0.005	< 0.005	0.01	6.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.25	3.25	< 0.005	< 0.005	< 0.005	3.26

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Recreational Amenities (Building Construction) (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.11	13.8	0.03	0.21	—	0.21	0.19	—	0.19	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.33	2.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	432	432	0.02	< 0.005	—	434
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.6	71.6	< 0.005	< 0.005	—	71.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.10	1.65	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	567	567	0.01	< 0.005	0.02	568
Vendor	0.01	0.01	0.25	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	246	246	0.01	0.04	0.01	257
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.11	0.11	0.00	0.02	0.02	—	94.6	94.6	< 0.005	< 0.005	0.06	94.8
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.4	40.4	< 0.005	0.01	0.04	42.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	15.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.70	6.70	< 0.005	< 0.005	0.01	6.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Recreational Amenities (Building Construction) (2034) - Mitigated

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

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

Off-Road Equipm	0.37	0.35	2.92	16.2	0.03	0.08	—	0.08	0.07	—	0.07	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.48	2.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	432	432	0.02	< 0.005	—	434
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.49	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.6	71.6	< 0.005	< 0.005	—	71.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.10	1.65	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	567	567	0.01	< 0.005	0.02	568
Vendor	0.01	0.01	0.25	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	246	246	0.01	0.04	0.01	257
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.11	0.11	0.00	0.02	0.02	—	94.6	94.6	< 0.005	< 0.005	0.06	94.8
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40.4	40.4	< 0.005	0.01	0.04	42.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	15.7
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.70	6.70	< 0.005	< 0.005	0.01	6.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Recreational Amenities (Building Construction) (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	0.92	7.90	13.8	0.03	0.19	—	0.19	0.18	—	0.18	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	0.92	7.90	13.8	0.03	0.19	—	0.19	0.18	—	0.18	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	2.01	3.50	0.01	0.05	—	0.05	0.05	—	0.05	—	669	669	0.03	0.01	—	671

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.64	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	< 0.005	< 0.005	—	111
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.86	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	592	592	< 0.005	< 0.005	0.77	593
Vendor	0.01	0.01	0.23	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	238	238	0.01	0.04	0.24	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.10	1.57	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	561	561	0.01	< 0.005	0.02	562
Vendor	0.01	0.01	0.25	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	238	238	0.01	0.04	0.01	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.42	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	145	145	< 0.005	< 0.005	0.08	145
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.5	60.5	< 0.005	0.01	0.03	63.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.0
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	< 0.005	10.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Recreational Amenities (Building Construction) (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.35	2.92	16.2	0.03	0.08	—	0.08	0.07	—	0.07	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.35	2.92	16.2	0.03	0.08	—	0.08	0.07	—	0.07	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.74	4.12	0.01	0.02	—	0.02	0.02	—	0.02	—	669	669	0.03	0.01	—	671
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.75	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	111	111	< 0.005	< 0.005	—	111

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.86	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	592	592	< 0.005	< 0.005	0.77	593
Vendor	0.01	0.01	0.23	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	238	238	0.01	0.04	0.24	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.10	1.57	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	561	561	0.01	< 0.005	0.02	562
Vendor	0.01	0.01	0.25	0.12	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	238	238	0.01	0.04	0.01	249
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.42	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	145	145	< 0.005	< 0.005	0.08	145
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.5	60.5	< 0.005	0.01	0.03	63.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.0
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	< 0.005	10.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Recreational Amenities (Paving) (2035) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.55	5.73	9.80	0.01	0.15	—	0.15	0.14	—	0.14	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.86	1.48	< 0.005	0.02	—	0.02	0.02	—	0.02	—	228	228	0.01	< 0.005	—	228
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.59	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.25	190

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.5	27.5	< 0.005	< 0.005	0.02	27.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	< 0.005	4.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Recreational Amenities (Paving) (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.29	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	228
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.59	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.25	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.5	27.5	< 0.005	< 0.005	0.02	27.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	< 0.005	4.56

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Recreational Amenities (Arch Coating) (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	2.27	3.30	0.01	0.02	—	0.02	0.02	—	0.02	—	401	401	0.02	< 0.005	—	402
Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	2.27	3.30	0.01	0.02	—	0.02	0.02	—	0.02	—	401	401	0.02	< 0.005	—	402
Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.05	0.04	0.34	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Architectural Coatings	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.99	9.99	< 0.005	< 0.005	—	10.0
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.59	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.25	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.50	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	180	180	< 0.005	< 0.005	0.01	180
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.5	27.5	< 0.005	< 0.005	A-102	27.5

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	< 0.005	4.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Recreational Amenities (Arch Coating) (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.94	2.89	0.01	0.01	—	0.01	0.01	—	0.01	—	401	401	0.02	< 0.005	—	402
Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.94	2.89	0.01	0.01	—	0.01	0.01	—	0.01	—	401	401	0.02	< 0.005	—	402

Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.29	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Architectural Coatings	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.99	9.99	< 0.005	< 0.005	—	10.0
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.59	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.25	190
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.50	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	180	180	< 0.005	< 0.005	0.01	180
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.5	27.5	< 0.005	< 0.005	0.02	27.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	< 0.005	4.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Passive Methane Capture (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.83	4.01	0.01	0.03	—	0.03	0.03	—	0.03	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.0	33.0	< 0.005	< 0.005	—	33.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.47	5.47	< 0.005	< 0.005	—	5.49
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.21	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	68.9	68.9	< 0.005	< 0.005	< 0.005	69.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.69	3.69	< 0.005	< 0.005	< 0.005	3.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Passive Methane Capture (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.31	4.40	0.01	0.01	—	0.01	0.01	—	0.01	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.0	33.0	< 0.005	< 0.005	—	33.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.47	5.47	< 0.005	< 0.005	—	5.49
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.21	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	68.9	68.9	< 0.005	< 0.005	< 0.005	69.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.69	3.69	< 0.005	< 0.005	< 0.005	3.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Passive Methane Capture (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.82	4.01	0.01	0.03	—	0.03	0.03	—	0.03	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.23	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	79.5	79.5	< 0.005	< 0.005	—	79.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.2	13.2	< 0.005	< 0.005	—	13.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	68.1	68.1	< 0.005	< 0.005	< 0.005	68.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.78	8.78	< 0.005	< 0.005	0.01	8.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.45	1.45	< 0.005	< 0.005	< 0.005	1.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Passive Methane Capture (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.31	4.40	0.01	0.01	—	0.01	0.01	—	0.01	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	79.5	79.5	< 0.005	< 0.005	—	79.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.2	13.2	< 0.005	< 0.005	—	13.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.20	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	68.1	68.1	< 0.005	< 0.005	< 0.005	68.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.78	8.78	< 0.005	< 0.005	0.01	8.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.45	1.45	< 0.005	< 0.005	< 0.005	1.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching for Utilities (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	2.29	4.51	0.01	0.04	—	0.04	0.04	—	0.04	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.27	0.23	2.29	4.51	0.01	0.04	—	0.04	0.04	—	0.04	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.10	0.97	1.90	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.01	< 0.005	—	290
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.18	0.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.39	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.18	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.33	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	113	113	< 0.005	< 0.005	< 0.005	114
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.6	48.6	< 0.005	< 0.005	0.03	48.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.04	8.04	< 0.005	< 0.005	0.01	8.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching for Utilities (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.77	4.78	0.01	0.01	—	0.01	0.01	—	0.01	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.77	4.78	0.01	0.01	—	0.01	0.01	—	0.01	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.03	0.03	0.32	2.02	< 0.005	0.01	—	0.01	0.01	—	0.01	—	289	289	0.01	< 0.005	—	290
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.39	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.18	120
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.33	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	113	113	< 0.005	< 0.005	< 0.005	114
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48.6	48.6	< 0.005	< 0.005	0.03	48.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.04	8.04	< 0.005	< 0.005	0.01	8.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Mobilization	Site Preparation	10/3/2033	12/1/2033	5.00	44.0	—
Recreational Amenities (Building Construction)	Building Construction	10/9/2034	5/10/2035	5.00	154	Recreational Amenities (Building Construction)
Recreational Amenities (Paving)	Paving	5/11/2035	7/26/2035	5.00	55.0	Recreational Amenities (Paving)
Recreational Amenities (Arch Coating)	Architectural Coating	7/27/2035	10/11/2035	5.00	55.0	Recreational Amenities (Arch Coating)
Passive Methane Capture	Trenching	12/5/2033	3/6/2034	5.00	66.0	Passive Methane Capture

Trenching for Utilities	Trenching	3/7/2034	10/6/2034	5.00	154	Trenching for Utilities

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Mobilization	Off-Highway Trucks	Diesel	Average	5.00	8.00	376	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Cranes	Diesel	Average	1.00	8.00	367	0.29
Recreational Amenities (Building Construction)	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Recreational Amenities (Building Construction)	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Recreational Amenities (Building Construction)	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Recreational Amenities (Paving)	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Recreational Amenities (Paving)	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Recreational Amenities (Paving)	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Recreational Amenities (Arch Coating)	Air Compressors	Diesel	Average	3.00	6.00	37.0	0.48
Passive Methane Capture	Bore/Drill Rigs	Diesel	Average	1.00	7.00	83.0	0.50

Passive Methane Capture	Tractors/Loaders/Back	Diesel	Average	1.00	8.00	84.0	0.37
Trenching for Utilities	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Trenching for Utilities	Trenchers	Diesel	Average	2.00	2.00	40.0	0.50

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Mobilization	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	8.00	376	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Recreational Amenities (Building Construction)	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Recreational Amenities (Building Construction)	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Recreational Amenities (Building Construction)	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Recreational Amenities (Paving)	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Recreational Amenities (Paving)	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Recreational Amenities (Paving)	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Recreational Amenities (Arch Coating)	Air Compressors	Diesel	Tier 4 Final	3.00	6.00	37.0	0.48

Passive Methane Capture	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	7.00	83.0	0.50
Passive Methane Capture	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching for Utilities	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Trenching for Utilities	Trenchers	Diesel	Tier 4 Final	2.00	2.00	40.0	0.50

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Recreational Amenities (Building Construction)	—	—	—	—
Recreational Amenities (Building Construction)	Worker	50.0	18.5	LDA,LDT1,LDT2
Recreational Amenities (Building Construction)	Vendor	10.0	10.2	HHDT,MHDT
Recreational Amenities (Building Construction)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Building Construction)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Paving)	—	—	—	—
Recreational Amenities (Paving)	Worker	16.0	18.5	LDA,LDT1,LDT2
Recreational Amenities (Paving)	Vendor	0.00	10.2	HHDT,MHDT
Recreational Amenities (Paving)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Paving)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Arch Coating)	—	—	—	—
Recreational Amenities (Arch Coating)	Worker	16.0	18.5	LDA,LDT1,LDT2

Recreational Amenities (Arch Coating)	Vendor	0.00	10.2	HHDT,MHDT
Recreational Amenities (Arch Coating)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Arch Coating)	Onsite truck	0.00	—	HHDT
Passive Methane Capture	—	—	—	—
Passive Methane Capture	Worker	6.00	18.5	LDA,LDT1,LDT2
Passive Methane Capture	Vendor	0.00	10.2	HHDT,MHDT
Passive Methane Capture	Hauling	0.00	20.0	HHDT
Passive Methane Capture	Onsite truck	0.00	—	HHDT
Trenching for Utilities	—	—	—	—
Trenching for Utilities	Worker	10.0	18.5	LDA,LDT1,LDT2
Trenching for Utilities	Vendor	0.00	10.2	HHDT,MHDT
Trenching for Utilities	Hauling	0.00	20.0	HHDT
Trenching for Utilities	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	18.5	LDA,LDT1,LDT2
Mobilization	Vendor	2.00	10.2	HHDT,MHDT
Mobilization	Hauling	0.00	20.0	HHDT
Mobilization	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Recreational Amenities (Building Construction)	—	—	—	—
Recreational Amenities (Building Construction)	Worker	50.0	18.5	LDA,LDT1,LDT2
Recreational Amenities (Building Construction)	Vendor	10.0	10.2	HHDT,MHDT

Recreational Amenities (Building Construction)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Building Construction)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Paving)	—	—	—	—
Recreational Amenities (Paving)	Worker	16.0	18.5	LDA,LDT1,LDT2
Recreational Amenities (Paving)	Vendor	0.00	10.2	HHDT,MHDT
Recreational Amenities (Paving)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Paving)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Arch Coating)	—	—	—	—
Recreational Amenities (Arch Coating)	Worker	16.0	18.5	LDA,LDT1,LDT2
Recreational Amenities (Arch Coating)	Vendor	0.00	10.2	HHDT,MHDT
Recreational Amenities (Arch Coating)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Arch Coating)	Onsite truck	0.00	—	HHDT
Passive Methane Capture	—	—	—	—
Passive Methane Capture	Worker	6.00	18.5	LDA,LDT1,LDT2
Passive Methane Capture	Vendor	0.00	10.2	HHDT,MHDT
Passive Methane Capture	Hauling	0.00	20.0	HHDT
Passive Methane Capture	Onsite truck	0.00	—	HHDT
Trenching for Utilities	—	—	—	—
Trenching for Utilities	Worker	10.0	18.5	LDA,LDT1,LDT2
Trenching for Utilities	Vendor	0.00	10.2	HHDT,MHDT
Trenching for Utilities	Hauling	0.00	20.0	HHDT
Trenching for Utilities	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	18.5	LDA,LDT1,LDT2

Mobilization	Vendor	2.00	10.2	HHDT,MHDT
Mobilization	Hauling	0.00	20.0	HHDT
Mobilization	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Recreational Amenities (Arch Coating)	0.00	0.00	0.00	0.00	84,785

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Mobilization	0.00	0.00	0.00	0.00	—
Recreational Amenities (Paving)	0.00	0.00	0.00	0.00	32.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Non-Asphalt Surfaces	21.0	0%
Parking Lot	1.44	100%
Other Non-Asphalt Surfaces	10.0	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2033	0.00	690	0.05	0.01
2034	0.00	690	0.05	0.01
2035	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1

Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345

Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1

Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0

A-171

Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Construction: Dust From Material Movement	No import/export

Rory M. Shaw Wetlands Park Phase 2 LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

3.2. Demolition (2028) - Mitigated

3.3. Site Preparation (2028) - Unmitigated

3.4. Site Preparation (2028) - Mitigated

3.5. Mobilization (2028) - Unmitigated

3.6. Mobilization (2028) - Mitigated

3.7. Deep Dynamic Compaction (2028) - Unmitigated

3.8. Deep Dynamic Compaction (2028) - Mitigated

3.9. Deep Dynamic Compaction (2029) - Unmitigated

3.10. Deep Dynamic Compaction (2029) - Mitigated

3.11. Deep Dynamic Compaction (2030) - Unmitigated

3.12. Deep Dynamic Compaction (2030) - Mitigated

3.13. Deep Dynamic Compaction (2031) - Unmitigated

3.14. Deep Dynamic Compaction (2031) - Mitigated

3.15. Deep Dynamic Compaction (2032) - Unmitigated

3.16. Deep Dynamic Compaction (2032) - Mitigated

3.17. Haul Excess Material (2028) - Unmitigated

3.18. Haul Excess Material (2028) - Mitigated

3.19. Haul Excess Material (2029) - Unmitigated

3.20. Haul Excess Material (2029) - Mitigated

3.21. Haul Excess Material (2030) - Unmitigated

3.22. Haul Excess Material (2030) - Mitigated

3.23. Haul Excess Material (2031) - Unmitigated

3.24. Haul Excess Material (2031) - Mitigated

3.25. Haul Excess Material (2032) - Unmitigated

3.26. Haul Excess Material (2032) - Mitigated

3.27. Crush Concrete (2028) - Unmitigated

3.28. Crush Concrete (2028) - Mitigated

3.29. Crush Concrete (2029) - Unmitigated

3.30. Crush Concrete (2029) - Mitigated

3.31. Crush Concrete (2030) - Unmitigated

3.32. Crush Concrete (2030) - Mitigated

3.33. Crush Concrete (2031) - Unmitigated

3.34. Crush Concrete (2031) - Mitigated

3.35. Crush Concrete (2032) - Unmitigated

3.36. Crush Concrete (2032) - Mitigated

3.37. Drainage (2032) - Unmitigated

3.38. Drainage (2032) - Mitigated

3.39. Clean up (2032) - Unmitigated

3.40. Clean up (2032) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Rory M. Shaw Wetlands Park Phase 2 LST
Construction Start Date	3/2/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	46.0	Acre	23.3	0.00	653,400	653,400	—	—
Other Non-Asphalt Surfaces	21.3	Acre	21.3	0.00	0.00	0.00	—	—

Parking Lot	160	Space	1.44	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	15.2	104	129	0.35	3.85	5.43	9.27	3.54	2.67	6.21	—	37,982	37,982	1.60	0.34	0.19	38,125
Mit.	6.31	6.31	31.0	200	0.35	0.83	5.43	6.25	0.82	2.67	3.48	—	37,982	37,982	1.60	0.34	0.19	38,125
% Reduced	65%	59%	70%	-55%	—	79%	—	33%	77%	—	44%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	15.2	104	129	0.35	3.85	5.43	9.27	3.54	2.67	6.21	—	37,984	37,984	1.60	0.34	< 0.005	38,127
Mit.	6.31	6.31	31.0	200	0.35	0.83	5.43	6.25	0.82	2.67	3.48	—	37,984	37,984	1.60	0.34	< 0.005	38,127
% Reduced	65%	59%	70%	-55%	—	79%	—	33%	77%	—	44%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.7	10.7	70.5	91.4	0.25	2.57	3.88	6.45	2.36	1.90	4.27	—	27,131	27,131	1.14	0.25	0.05	27,232

Mit.	3.15	3.04	22.1	143	0.25	0.59	3.88	4.47	0.58	1.90	2.49	—	27,131	27,131	1.14	0.25	0.05	27,232
% Reduced	75%	71%	69%	-56%	—	77%	—	31%	75%	—	42%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.32	1.95	12.9	16.7	0.05	0.47	0.71	1.18	0.43	0.35	0.78	—	4,492	4,492	0.19	0.04	0.01	4,509
Mit.	0.57	0.56	4.04	26.1	0.05	0.11	0.71	0.82	0.11	0.35	0.45	—	4,492	4,492	0.19	0.04	0.01	4,509
% Reduced	75%	71%	69%	-56%	—	77%	—	31%	75%	—	42%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	143	1,110	—	—	—	10.5	—	—	6.00	—	—	—	—	—	—	—
Unmit.	—	Yes	No	No	Yes	—	—	No	—	—	Yes	—	—	—	—	—	—	—
Mit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	143	1,110	—	—	—	10.5	—	—	6.00	—	—	—	—	—	—	—
Unmit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	18.2	15.2	104	129	0.35	3.85	5.43	9.27	3.54	2.67	6.21	—	37,981	37,981	1.60	0.34	0.19	38,124
2029	17.8	14.9	98.6	128	0.35	3.60	5.43	9.03	3.31	2.67	5.98	—	37,982	37,982	1.60	0.34	0.18	38,125

2030	17.4	14.6	95.2	128	0.35	3.46	5.43	8.89	3.19	2.67	5.85	—	37,978	37,978	1.60	0.34	0.16	38,121
2031	17.1	14.3	91.0	127	0.35	3.33	5.43	8.76	3.07	2.67	5.73	—	37,974	37,974	1.59	0.34	0.15	38,117
2032	6.39	6.37	9.67	15.9	0.06	0.36	< 0.005	0.36	0.33	< 0.005	0.33	—	6,846	6,846	0.28	0.06	0.01	6,870
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	18.2	15.2	104	129	0.35	3.85	5.43	9.27	3.54	2.67	6.21	—	37,983	37,983	1.60	0.34	< 0.005	38,126
2029	17.8	14.9	98.7	128	0.35	3.60	5.43	9.03	3.31	2.67	5.98	—	37,984	37,984	1.60	0.34	< 0.005	38,127
2030	17.4	14.6	95.2	128	0.35	3.46	5.43	8.89	3.19	2.67	5.85	—	37,980	37,980	1.60	0.34	< 0.005	38,123
2031	17.1	14.3	91.1	127	0.35	3.33	5.43	8.76	3.07	2.67	5.73	—	37,977	37,977	1.59	0.34	< 0.005	38,119
2032	16.7	14.0	86.2	125	0.35	3.08	5.43	8.51	2.84	2.67	5.50	—	37,973	37,973	1.59	0.34	< 0.005	38,115
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	5.83	4.89	31.9	40.4	0.12	1.15	1.24	2.39	1.05	0.61	1.66	—	12,598	12,598	0.53	0.11	0.02	12,644
2029	12.7	10.7	70.5	91.4	0.25	2.57	3.88	6.45	2.36	1.90	4.27	—	27,131	27,131	1.14	0.25	0.05	27,232
2030	12.4	10.4	68.0	91.4	0.25	2.47	3.88	6.35	2.28	1.90	4.18	—	27,128	27,128	1.14	0.25	0.05	27,229
2031	12.2	10.2	65.0	90.8	0.25	2.38	3.88	6.26	2.19	1.90	4.09	—	27,125	27,125	1.14	0.25	0.05	27,227
2032	3.60	3.15	14.5	21.2	0.06	0.52	0.87	1.39	0.48	0.43	0.90	—	6,542	6,542	0.27	0.06	0.01	6,567
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.06	0.89	5.82	7.37	0.02	0.21	0.23	0.44	0.19	0.11	0.30	—	2,086	2,086	0.09	0.02	< 0.005	2,093
2029	2.32	1.95	12.9	16.7	0.05	0.47	0.71	1.18	0.43	0.35	0.78	—	4,492	4,492	0.19	0.04	0.01	4,509
2030	2.27	1.90	12.4	16.7	0.05	0.45	0.71	1.16	0.42	0.35	0.76	—	4,491	4,491	0.19	0.04	0.01	4,508
2031	2.23	1.87	11.9	16.6	0.05	0.43	0.71	1.14	0.40	0.35	0.75	—	4,491	4,491	0.19	0.04	0.01	4,508
2032	0.66	0.57	2.65	3.87	0.01	0.09	0.16	0.25	0.09	0.08	0.17	—	1,083	1,083	0.05	0.01	< 0.005	1,087

2.3. Construction Emissions by Year, Mitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	4.43	4.28	31.0	200	0.35	0.83	5.43	6.25	0.82	2.67	3.48	—	37,981	37,981	1.60	0.34	0.19	38,124
2029	4.42	4.27	30.9	200	0.35	0.82	5.43	6.25	0.82	2.67	3.48	—	37,982	37,982	1.60	0.34	0.18	38,125
2030	4.41	4.26	30.9	200	0.35	0.82	5.43	6.25	0.81	2.67	3.48	—	37,978	37,978	1.60	0.34	0.16	38,121
2031	4.39	4.25	30.9	200	0.35	0.82	5.43	6.25	0.81	2.67	3.48	—	37,974	37,974	1.59	0.34	0.15	38,117
2032	6.31	6.31	4.08	34.0	0.06	0.13	< 0.005	0.13	0.13	< 0.005	0.13	—	6,846	6,846	0.28	0.06	0.01	6,870
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	4.42	4.27	31.0	200	0.35	0.83	5.43	6.25	0.82	2.67	3.48	—	37,983	37,983	1.60	0.34	< 0.005	38,126
2029	4.41	4.26	31.0	200	0.35	0.82	5.43	6.25	0.82	2.67	3.48	—	37,984	37,984	1.60	0.34	< 0.005	38,127
2030	4.40	4.25	31.0	200	0.35	0.82	5.43	6.25	0.81	2.67	3.48	—	37,980	37,980	1.60	0.34	< 0.005	38,123
2031	4.38	4.24	31.0	200	0.35	0.82	5.43	6.25	0.81	2.67	3.48	—	37,977	37,977	1.59	0.34	< 0.005	38,119
2032	6.31	6.31	30.9	200	0.35	0.82	5.43	6.25	0.81	2.67	3.48	—	37,973	37,973	1.59	0.34	< 0.005	38,115
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.44	1.40	10.2	65.9	0.12	0.27	1.24	1.51	0.27	0.61	0.88	—	12,598	12,598	0.53	0.11	0.02	12,644
2029	3.15	3.04	22.1	143	0.25	0.59	3.88	4.47	0.58	1.90	2.49	—	27,131	27,131	1.14	0.25	0.05	27,232
2030	3.14	3.04	22.1	143	0.25	0.59	3.88	4.47	0.58	1.90	2.49	—	27,128	27,128	1.14	0.25	0.05	27,229
2031	3.13	3.03	22.1	143	0.25	0.59	3.88	4.46	0.58	1.90	2.49	—	27,125	27,125	1.14	0.25	0.05	27,227
2032	1.50	1.48	5.23	34.4	0.06	0.14	0.87	1.01	0.14	0.43	0.57	—	6,542	6,542	0.27	0.06	0.01	6,567
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.26	0.26	1.85	12.0	0.02	0.05	0.23	0.28	0.05	0.11	0.16	—	2,086	2,086	0.09	0.02	< 0.005	2,093
2029	0.57	0.56	4.04	26.1	0.05	0.11	0.71	0.82	0.11	0.35	0.45	—	4,492	4,492	0.19	0.04	0.01	4,509
2030	0.57	0.55	4.03	26.1	0.05	0.11	0.71	0.81	0.11	0.35	0.45	—	4,491	4,491	0.19	0.04	0.01	4,508
2031	0.57	0.55	4.03	26.1	0.05	0.11	0.71	0.81	0.11	0.35	0.45	—	4,491	4,491	0.19	0.04	0.01	4,508
2032	0.27	0.27	0.95	6.27	0.01	0.03	0.16	0.18	0.03	0.08	0.10	—	1,083	1,083	0.05	0.01	< 0.005	1,087

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.79	8.22	48.0	65.1	0.22	1.56	—	1.56	1.44	—	1.44	—	22,918	22,918	0.93	0.19	—	22,997
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21	1.01	5.92	8.02	0.03	0.19	—	0.19	0.18	—	0.18	—	2,826	2,826	0.11	0.02	—	2,835
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.22	0.18	1.08	1.46	< 0.005	0.04	—	0.04	0.03	—	0.03	—	468	468	0.02	< 0.005	—	469
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.02	21.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.32
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.56	2.56	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.22
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Demolition (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A-185	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.27	2.27	18.6	119	0.22	0.43	—	0.43	0.43	—	0.43	—	22,918	22,918	0.93	0.19	—	22,997
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	2.29	14.6	0.03	0.05	—	0.05	0.05	—	0.05	—	2,826	2,826	0.11	0.02	—	2,835
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.42	2.67	< 0.005	0.01	—	0.01	0.01	—	0.01	—	468	468	0.02	< 0.005	—	469
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.01	0.01	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	20.7	20.7	< 0.005	< 0.005	0.02	21.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.23	1.23	< 0.005	< 0.005	< 0.005	1.32
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.56	2.56	< 0.005	< 0.005	< 0.005	2.70
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.22
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	1.25	8.16	12.7	0.03	0.26	—	0.26	0.24	—	0.24	—	3,680	3,680	0.15	0.03	—	3,693
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.49	0.76	< 0.005	0.02	—	0.02	0.01	—	0.01	—	222	222	0.01	< 0.005	—	223
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.7	36.7	< 0.005	< 0.005	—	36.9
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.73	6.73	< 0.005	< 0.005	0.01	7.23
Vendor	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.01	10.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.43
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	2.40	20.2	0.03	0.07	—	0.07	0.07	—	0.07	—	3,680	3,680	0.15	0.03	—	3,693
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	1.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	222	222	0.01	< 0.005	—	223
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.7	36.7	< 0.005	< 0.005	—	36.9
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.73	6.73	< 0.005	< 0.005	0.01	7.23
Vendor	0.01	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	0.01	10.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.43

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Mobilization (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85	2.39	12.8	15.8	0.06	0.46	—	0.46	0.42	—	0.42	—	6,877	6,877	0.28	0.06	—	6,900
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	1.57	1.95	0.01	0.06	—	0.06	0.05	—	0.05	—	848	848	0.03	0.01	—	851

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.29	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	140	140	0.01	< 0.005	—	141
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.71	4.71	< 0.005	< 0.005	0.01	5.06
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.62
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.57	0.57	< 0.005	< 0.005	< 0.005	0.62
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Mobilization (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.83	4.84	33.8	0.06	0.19	—	0.19	0.18	—	0.18	—	6,877	6,877	0.28	0.06	—	6,900
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.60	4.17	0.01	0.02	—	0.02	0.02	—	0.02	—	848	848	0.03	0.01	—	851
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	140	140	0.01	< 0.005	—	141
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.71	4.71	< 0.005	< 0.005	0.01	5.06
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.45	3.45	< 0.005	< 0.005	< 0.005	3.62
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.57	0.57	< 0.005	< 0.005	< 0.005	0.62
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Deep Dynamic Compaction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.49	7.97	53.2	61.5	0.19	2.05	—	2.05	1.89	—	1.89	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.49	7.97	53.2	61.5	0.19	2.05	—	2.05	1.89	—	1.89	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	1.82	12.2	14.1	0.04	0.47	—	0.47	0.43	—	0.43	—	4,693	4,693	0.19	0.04	—	4,709

Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.41	0.41	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.33	2.22	2.57	0.01	0.09	—	0.09	0.08	—	0.08	—	777	777	0.03	0.01	—	780
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.24	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	< 0.005	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.45
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Deep Dynamic Compaction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,495	20,495	0.83	0.17	—	20,566
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.49	2.91	23.7	0.04	0.10	—	0.10	0.10	—	0.10	—	4,693	4,693	0.19	0.04	—	4,709
Dust From Material Movement	—	—	—	—	—	—	0.84	0.84	—	0.41	0.41	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.53	4.32	0.01	0.02	—	0.02	0.02	—	0.02	—	777	777	0.03	0.01	—	780
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.24	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	< 0.005	10.7

Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.45
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Deep Dynamic Compaction (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.30	7.81	49.8	60.8	0.19	1.93	—	1.93	1.77	—	1.77	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	9.30	7.81	49.8	60.8	0.19	1.93	—	1.93	1.77	—	1.77	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	6.64	5.58	35.6	43.4	0.14	1.38	—	1.38	1.27	—	1.27	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.21	1.02	6.50	7.92	0.02	0.25	—	0.25	0.23	—	0.23	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.01	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.71	9.71	< 0.005	< 0.005	< 0.005	10.5
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.98	6.98	< 0.005	< 0.005	< 0.005	7.52
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.72	9.72	< 0.005	< 0.005	< 0.005	10.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.25
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Deep Dynamic Compaction (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.52	9.08	73.8	0.14	0.32	—	0.32	0.31	—	0.31	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.66	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.01	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.71	9.71	< 0.005	< 0.005	< 0.005	10.5
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	14.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.98	6.98	< 0.005	< 0.005	< 0.005	7.52
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.72	9.72	< 0.005	< 0.005	< 0.005	10.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.25
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Deep Dynamic Compaction (2030) - Unmitigated

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

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

Off-Road	9.13	7.67	47.8	60.8	0.19	1.87	—	1.87	1.72	—	1.72	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.13	7.67	47.8	60.8	0.19	1.87	—	1.87	1.72	—	1.72	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.52	5.48	34.1	43.5	0.14	1.33	—	1.33	1.23	—	1.23	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19	1.00	6.23	7.93	0.02	0.24	—	0.24	0.22	—	0.22	—	2,424	2,424	0.10	0.02	—	2,432

Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	0.01	10.5
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	0.01	14.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.86	6.86	< 0.005	< 0.005	< 0.005	7.39
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.22
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Deep Dynamic Compaction (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.52	9.08	73.8	0.14	0.32	—	0.32	0.31	—	0.31	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.66	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	0.01	10.5
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	0.01	14.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.86	6.86	< 0.005	< 0.005	< 0.005	7.39
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.22

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Deep Dynamic Compaction (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.01	7.57	45.5	60.4	0.19	1.82	—	1.82	1.68	—	1.68	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.01	7.57	45.5	60.4	0.19	1.82	—	1.82	1.68	—	1.68	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	6.44	5.41	32.5	43.1	0.14	1.30	—	1.30	1.20	—	1.20	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.17	0.99	5.93	7.87	0.02	0.24	—	0.24	0.22	—	0.22	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.17	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.58	9.58	< 0.005	< 0.005	0.01	10.3
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.01	13.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.20	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.38	9.38	< 0.005	< 0.005	< 0.005	10.1
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.74	6.74	< 0.005	< 0.005	< 0.005	7.27

Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.35	9.35	< 0.005	< 0.005	< 0.005	9.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.20
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.63
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Deep Dynamic Compaction (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,567

Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.52	9.07	73.8	0.14	0.32	—	0.32	0.31	—	0.31	—	14,641	14,641	0.59	0.12	—	14,691
Dust From Material Movement	—	—	—	—	—	—	2.63	2.63	—	1.27	1.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.28	1.66	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,424	2,424	0.10	0.02	—	2,432
Dust From Material Movement	—	—	—	—	—	—	0.48	0.48	—	0.23	0.23	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.17	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.58	9.58	< 0.005	< 0.005	0.01	10.3
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.01	13.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.20	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.38	9.38	< 0.005	< 0.005	< 0.005	10.1
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.74	6.74	< 0.005	< 0.005	< 0.005	7.27
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.35	9.35	< 0.005	< 0.005	< 0.005	9.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.20
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.63
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Deep Dynamic Compaction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.79	7.39	42.6	58.8	0.19	1.69	—	1.69	1.55	—	1.55	—	20,497	20,497	0.83	0.17	—	20,568

Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.19	6.83	9.44	0.03	0.27	—	0.27	0.25	—	0.25	—	3,289	3,289	0.13	0.03	—	3,300
Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.25	1.72	0.01	0.05	—	0.05	0.05	—	0.05	—	545	545	0.02	< 0.005	—	546
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.23	9.23	< 0.005	< 0.005	< 0.005	9.93

Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.61
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.06	2.06	< 0.005	< 0.005	< 0.005	2.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Deep Dynamic Compaction (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	2.13	12.7	103	0.19	0.44	—	0.44	0.44	—	0.44	—	20,497	20,497	0.83	0.17	—	20,568
Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.78	1.78	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.34	2.04	16.6	0.03	0.07	—	0.07	0.07	—	0.07	—	3,289	3,289	0.13	0.03	—	3,300
Dust From Material Movement	—	—	—	—	—	—	0.59	0.59	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.37	3.03	0.01	0.01	—	0.01	0.01	—	0.01	—	545	545	0.02	< 0.005	—	546
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.23	9.23	< 0.005	< 0.005	< 0.005	9.93
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.61

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.06	2.06	< 0.005	< 0.005	< 0.005	2.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Haul Excess Material (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	16.0	18.5	0.03	0.60	—	0.60	0.56	—	0.56	—	3,084	3,084	0.13	0.03	—	3,095
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	16.0	18.5	0.03	0.60	—	0.60	0.56	—	0.56	—	3,084	3,084	0.13	0.03	—	3,095

Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	3.67	4.23	0.01	0.14	—	0.14	0.13	—	0.13	—	706	706	0.03	0.01	—	709
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.67	0.77	< 0.005	0.03	—	0.03	0.02	—	0.02	—	117	117	< 0.005	< 0.005	—	117
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.5
Hauling	0.10	0.05	1.01	0.76	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	170	170	0.05	0.03	0.12	179

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.24	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	< 0.005	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.7
Hauling	0.09	0.04	1.06	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	172	172	0.05	0.03	< 0.005	181
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.45
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
Hauling	0.02	0.01	0.24	0.18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	39.1	39.1	0.01	0.01	0.01	41.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55
Hauling	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	< 0.005	6.83

3.18. Haul Excess Material (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,084	3,084	0.13	0.03	—	3,095
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,084	3,084	0.13	0.03	—	3,095
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.12	1.28	4.17	0.01	0.03	—	0.03	0.03	—	0.03	—	706	706	0.03	0.01	—	709
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.23	0.76	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	117	117	< 0.005	< 0.005	—	117
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.5
Hauling	0.10	0.05	1.01	0.76	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	170	170	0.05	0.03	0.12	179
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.24	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	< 0.005	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	< 0.005	14.7
Hauling	0.09	0.04	1.06	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	172	172	0.05	0.03	< 0.005	181
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.45
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
Hauling	0.02	0.01	0.24	0.18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	39.1	39.1	0.01	0.01	0.01	41.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55
Hauling	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	< 0.005	6.83

3.19. Haul Excess Material (2029) - Unmitigated

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

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

Off-Road	2.16	1.81	15.4	18.4	0.03	0.57	—	0.57	0.53	—	0.53	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.81	15.4	18.4	0.03	0.57	—	0.57	0.53	—	0.53	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.54	1.29	11.0	13.1	0.02	0.41	—	0.41	0.38	—	0.38	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.01	2.40	< 0.005	0.07	—	0.07	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366

Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.01	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.2
Hauling	0.10	0.05	0.99	0.77	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	167	167	0.05	0.03	0.11	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.71	9.71	< 0.005	< 0.005	< 0.005	10.5
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	14.4
Hauling	0.09	0.04	1.04	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	169	169	0.05	0.03	< 0.005	178
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.98	6.98	< 0.005	< 0.005	< 0.005	7.52
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.72	9.72	< 0.005	< 0.005	< 0.005	10.2
Hauling	0.07	0.03	0.73	0.55	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	120	120	0.03	0.02	0.03	127
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.25
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.69
Hauling	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.9	19.9	0.01	< 0.005	0.01	21.0

3.20. Haul Excess Material (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.60	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.36	4.00	13.0	0.02	0.08	—	0.08	0.08	—	0.08	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.73	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.91	9.91	< 0.005	< 0.005	0.01	10.7
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.2
Hauling	0.10	0.05	0.99	0.77	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	167	167	0.05	0.03	0.11	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.71	9.71	< 0.005	< 0.005	< 0.005	10.5
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	14.4
Hauling	0.09	0.04	1.04	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	169	169	0.05	0.03	< 0.005	178
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.98	6.98	< 0.005	< 0.005	< 0.005	7.52
Vendor	< 0.005	< 0.005	0.06	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.72	9.72	< 0.005	< 0.005	< 0.005	10.2
Hauling	0.07	0.03	0.73	0.55	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	120	120	0.03	0.02	0.03	127
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.25

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.61	1.61	< 0.005	< 0.005	< 0.005	1.69
Hauling	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.9	19.9	0.01	< 0.005	0.01	21.0

3.21. Haul Excess Material (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.08	1.75	15.2	18.5	0.03	0.55	—	0.55	0.51	—	0.51	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.08	1.75	15.2	18.5	0.03	0.55	—	0.55	0.51	—	0.51	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.49	1.25	10.8	13.2	0.02	0.39	—	0.39	0.36	—	0.36	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.27	0.23	1.98	2.41	< 0.005	0.07	—	0.07	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	0.01	10.5
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	0.01	14.0
Hauling	0.10	0.05	0.98	0.77	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	164	164	0.05	0.03	0.10	174
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.1
Hauling	0.09	0.04	1.03	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	167	167	0.05	0.03	< 0.005	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.86	6.86	< 0.005	< 0.005	< 0.005	7.39

Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.0
Hauling	0.07	0.03	0.72	0.56	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	118	118	0.03	0.02	0.03	125
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.22
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.5	19.5	0.01	< 0.005	0.01	20.6

3.22. Haul Excess Material (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094

Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.36	4.00	13.0	0.02	0.08	—	0.08	0.08	—	0.08	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.73	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.74	9.74	< 0.005	< 0.005	0.01	10.5
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.3	13.3	< 0.005	< 0.005	0.01	14.0
Hauling	0.10	0.05	0.98	0.77	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	164	164	0.05	0.03	0.10	174

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.1
Hauling	0.09	0.04	1.03	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	167	167	0.05	0.03	< 0.005	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.86	6.86	< 0.005	< 0.005	< 0.005	7.39
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.54	9.54	< 0.005	< 0.005	< 0.005	10.0
Hauling	0.07	0.03	0.72	0.56	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	118	118	0.03	0.02	0.03	125
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.14	1.14	< 0.005	< 0.005	< 0.005	1.22
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.66
Hauling	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.5	19.5	0.01	< 0.005	0.01	20.6

3.23. Haul Excess Material (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	1.70	14.8	18.2	0.03	0.53	—	0.53	0.49	—	0.49	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	1.70	14.8	18.2	0.03	0.53	—	0.53	0.49	—	0.49	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.22	10.6	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.93	2.38	< 0.005	0.07	—	0.07	0.06	—	0.06	—	365	365	0.01	< 0.005	—	366
Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.17	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.58	9.58	< 0.005	< 0.005	0.01	10.3
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.01	13.7
Hauling	0.10	0.05	0.96	0.77	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	162	162	0.05	0.03	0.09	171
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.20	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.38	9.38	< 0.005	< 0.005	< 0.005	10.1
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Hauling	0.09	0.04	1.02	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	164	164	0.05	0.03	< 0.005	173
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.74	6.74	< 0.005	< 0.005	< 0.005	7.27
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.35	9.35	< 0.005	< 0.005	< 0.005	9.83
Hauling	0.07	0.03	0.71	0.56	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	116	116	0.03	0.02	0.03	123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.20
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.63
Hauling	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.2	19.2	0.01	< 0.005	< 0.005	20.3

3.24. Haul Excess Material (2031) - Mitigated

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

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

Off-Road	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.36	3.99	13.0	0.02	0.08	—	0.08	0.08	—	0.08	—	2,202	2,202	0.09	0.02	—	2,210
Dust From Material Movement	—	—	—	—	—	—	1.22	1.22	—	0.63	0.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.73	2.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	365	365	0.01	< 0.005	—	366

Dust From Material Movement	—	—	—	—	—	—	0.22	0.22	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.17	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.58	9.58	< 0.005	< 0.005	0.01	10.3
Vendor	0.01	< 0.005	0.07	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.0	13.0	< 0.005	< 0.005	0.01	13.7
Hauling	0.10	0.05	0.96	0.77	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	162	162	0.05	0.03	0.09	171
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.20	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.38	9.38	< 0.005	< 0.005	< 0.005	10.1
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Hauling	0.09	0.04	1.02	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	164	164	0.05	0.03	< 0.005	173
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.74	6.74	< 0.005	< 0.005	< 0.005	7.27
Vendor	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.35	9.35	< 0.005	< 0.005	< 0.005	9.83
Hauling	0.07	0.03	0.71	0.56	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	116	116	0.03	0.02	0.03	123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.20
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.63
Hauling	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	19.2	19.2	0.01	< 0.005	< 0.005	20.3

3.25. Haul Excess Material (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.93	1.62	14.1	17.5	0.03	0.47	—	0.47	0.44	—	0.44	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.26	2.26	2.81	< 0.005	0.08	—	0.08	0.07	—	0.07	—	495	495	0.02	< 0.005	—	496
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.41	0.51	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.9	81.9	< 0.005	< 0.005	—	82.2

Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.23	9.23	< 0.005	< 0.005	< 0.005	9.93
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.6
Hauling	0.09	0.04	1.01	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	162	162	0.05	0.03	< 0.005	171
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.61
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.06	2.06	< 0.005	< 0.005	< 0.005	2.17
Hauling	0.01	0.01	0.16	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.7	25.7	0.01	< 0.005	0.01	27.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.26	4.26	< 0.005	< 0.005	< 0.005	4.50

3.26. Haul Excess Material (2032) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.50	5.59	18.2	0.03	0.11	—	0.11	0.11	—	0.11	—	3,083	3,083	0.13	0.03	—	3,094
Dust From Material Movement	—	—	—	—	—	—	1.71	1.71	—	0.88	0.88	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.90	2.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	495	495	0.02	< 0.005	—	496
Dust From Material Movement	—	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.16	0.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	81.9	81.9	< 0.005	< 0.005	—	82.2
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.23	9.23	< 0.005	< 0.005	< 0.005	9.93
Vendor	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.6
Hauling	0.09	0.04	1.01	0.79	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	162	162	0.05	0.03	< 0.005	171
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.61
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.06	2.06	< 0.005	< 0.005	< 0.005	2.17
Hauling	0.01	0.01	0.16	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.7	25.7	0.01	< 0.005	0.01	27.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.36
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.26	4.26	< 0.005	< 0.005	< 0.005	4.50

3.27. Crush Concrete (2028) - Unmitigated

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

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

Off-Road Equipment	6.17	5.19	33.8	47.6	0.13	1.19	—	1.19	1.10	—	1.10	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.17	5.19	33.8	47.6	0.13	1.19	—	1.19	1.10	—	1.10	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.19	7.74	10.9	0.03	0.27	—	0.27	0.25	—	0.25	—	3,245	3,245	0.13	0.03	—	3,256
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.26	0.22	1.41	1.99	0.01	0.05	—	0.05	0.05	—	0.05	—	537	537	0.02	< 0.005	—	539
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.71	4.71	< 0.005	< 0.005	0.01	5.06
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.90	6.90	< 0.005	< 0.005	0.01	7.25
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.62	4.62	< 0.005	< 0.005	< 0.005	4.97
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.97	6.97	< 0.005	< 0.005	< 0.005	7.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.15
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.28
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Crush Concrete (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,172	14,172	0.57	0.11	—	14,221
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	2.61	17.6	0.03	0.06	—	0.06	0.06	—	0.06	—	3,245	3,245	0.13	0.03	—	3,256

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.48	3.21	0.01	0.01	—	0.01	0.01	—	0.01	—	537	537	0.02	< 0.005	—	539
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.71	4.71	< 0.005	< 0.005	0.01	5.06
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.90	6.90	< 0.005	< 0.005	0.01	7.25
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.62	4.62	< 0.005	< 0.005	< 0.005	4.97
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.97	6.97	< 0.005	< 0.005	< 0.005	7.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.06	1.06	< 0.005	< 0.005	< 0.005	1.15
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.67

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.28
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Crush Concrete (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.06	5.09	32.1	47.3	0.13	1.10	—	1.10	1.01	—	1.01	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.06	5.09	32.1	47.3	0.13	1.10	—	1.10	1.01	—	1.01	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.33	3.64	22.9	33.8	0.09	0.79	—	0.79	0.72	—	0.72	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	4.19	6.17	0.02	0.14	—	0.14	0.13	—	0.13	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.63	4.63	< 0.005	< 0.005	0.01	4.98
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	0.01	7.12
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.53	4.53	< 0.005	< 0.005	< 0.005	4.89

Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.85	6.85	< 0.005	< 0.005	< 0.005	7.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.26	3.26	< 0.005	< 0.005	< 0.005	3.51
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.86	4.86	< 0.005	< 0.005	< 0.005	5.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.58
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Crush Concrete (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	1.00	1.00	8.15	54.9	0.09	0.19	—	0.19	0.19	—	0.19	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.18	0.18	1.49	10.0	0.02	0.03	—	0.03	0.03	—	0.03	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.63	4.63	< 0.005	< 0.005	0.01	4.98
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.77	6.77	< 0.005	< 0.005	0.01	7.12

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.53	4.53	< 0.005	< 0.005	< 0.005	4.89
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.85	6.85	< 0.005	< 0.005	< 0.005	7.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.26	3.26	< 0.005	< 0.005	< 0.005	3.51
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.86	4.86	< 0.005	< 0.005	< 0.005	5.11
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.58
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Crush Concrete (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.91	4.97	31.0	47.2	0.13	1.04	—	1.04	0.96	—	0.96	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.91	4.97	31.0	47.2	0.13	1.04	—	1.04	0.96	—	0.96	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.22	3.55	22.1	33.7	0.09	0.75	—	0.75	0.69	—	0.69	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	4.04	6.15	0.02	0.14	—	0.14	0.13	—	0.13	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	0.01	4.90
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.65	6.65	< 0.005	< 0.005	0.01	6.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.45	4.45	< 0.005	< 0.005	< 0.005	4.80
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.72	6.72	< 0.005	< 0.005	< 0.005	7.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.20	3.20	< 0.005	< 0.005	< 0.005	3.45
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	< 0.005	5.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.32. Crush Concrete (2030) - Mitigated

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

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

Off-Road	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	1.00	8.15	54.9	0.09	0.19	—	0.19	0.19	—	0.19	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.18	1.49	10.0	0.02	0.03	—	0.03	0.03	—	0.03	—	1,676	1,676	0.07	0.01	—	1,682

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.55	4.55	< 0.005	< 0.005	0.01	4.90
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.65	6.65	< 0.005	< 0.005	0.01	6.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.45	4.45	< 0.005	< 0.005	< 0.005	4.80
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.72	6.72	< 0.005	< 0.005	< 0.005	7.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.20	3.20	< 0.005	< 0.005	< 0.005	3.45
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.77	4.77	< 0.005	< 0.005	< 0.005	5.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.57
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.83
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.33. Crush Concrete (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.78	4.86	29.6	47.1	0.13	0.98	—	0.98	0.90	—	0.90	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.78	4.86	29.6	47.1	0.13	0.98	—	0.98	0.90	—	0.90	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.13	3.47	21.1	33.6	0.09	0.70	—	0.70	0.64	—	0.64	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	3.85	6.14	0.02	0.13	—	0.13	0.12	—	0.12	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.47	4.47	< 0.005	< 0.005	< 0.005	4.79
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.51	6.51	< 0.005	< 0.005	0.01	6.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	< 0.005	4.72
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.59	6.59	< 0.005	< 0.005	< 0.005	6.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.39
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.68	4.68	< 0.005	< 0.005	< 0.005	4.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.56

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.34. Crush Concrete (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.00	1.00	8.15	54.9	0.09	0.19	—	0.19	0.19	—	0.19	—	10,126	10,126	0.41	0.08	—	10,161
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.18	0.18	1.49	10.0	0.02	0.03	—	0.03	0.03	—	0.03	—	1,676	1,676	0.07	0.01	—	1,682
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.47	4.47	< 0.005	< 0.005	< 0.005	4.79
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.51	6.51	< 0.005	< 0.005	0.01	6.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	< 0.005	4.72
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.59	6.59	< 0.005	< 0.005	< 0.005	6.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.39

Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.68	4.68	< 0.005	< 0.005	< 0.005	4.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.56
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.35. Crush Concrete (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.68	4.77	28.4	47.0	0.13	0.92	—	0.92	0.84	—	0.84	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	4.55	7.55	0.02	0.15	—	0.15	0.14	—	0.14	—	2,275	2,275	0.09	0.02	—	2,283

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.83	1.38	< 0.005	0.03	—	0.03	0.02	—	0.02	—	377	377	0.02	< 0.005	—	378
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	< 0.005	4.63
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	< 0.005	6.79
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.75
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.36. Crush Concrete (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.40	1.40	11.4	76.9	0.13	0.27	—	0.27	0.27	—	0.27	—	14,176	14,176	0.58	0.12	—	14,225
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.22	1.83	12.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,275	2,275	0.09	0.02	—	2,283
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.33	2.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	377	377	0.02	< 0.005	—	378
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	< 0.005	4.63
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	< 0.005	6.79
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.75
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.03	1.03	< 0.005	< 0.005	< 0.005	1.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.18
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.37. Drainage (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.88	1.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.88	1.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.79	5.79	< 0.005	< 0.005	—	5.81
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	< 0.005	4.72
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.39	6.39	< 0.005	< 0.005	0.01	6.72

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	< 0.005	4.63
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	< 0.005	6.79
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.56
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.38. Drainage (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.14	2.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Architect Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.14	2.03	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	6.25	6.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.0	35.0	< 0.005	< 0.005	—	35.1
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.75	0.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	< 0.005	< 0.005	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.79	5.79	< 0.005	< 0.005	—	5.81
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Architectural Coatings	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	< 0.005	4.72
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.39	6.39	< 0.005	< 0.005	0.01	6.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.31	4.31	< 0.005	< 0.005	< 0.005	4.63
Vendor	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.47	6.47	< 0.005	< 0.005	< 0.005	6.79
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.56
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.77	0.77	< 0.005	< 0.005	< 0.005	0.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.39. Clean up (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.63	2.21	9.66	15.8	0.06	0.36	—	0.36	0.33	—	0.33	—	6,843	6,843	0.28	0.06	—	6,867
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	0.58	0.95	< 0.005	0.02	—	0.02	0.02	—	0.02	—	412	412	0.02	< 0.005	—	414
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.03	0.02	0.11	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.40. Clean up (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A-265	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.66	4.08	34.0	0.06	0.13	—	0.13	0.13	—	0.13	—	6,843	6,843	0.28	0.06	—	6,867
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.25	2.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	412	412	0.02	< 0.005	—	414
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/5/2028	8/4/2028	5.00	45.0	—
Site Preparation	Site Preparation	8/7/2028	9/5/2028	5.00	22.0	—
Mobilization	Site Preparation	04/03/2028	6/2/2028	5.00	45.0	Mobilization - Phase 2
Deep Dynamic Compaction	Grading	9/6/2028	3/22/2032	5.00	924	Deep Dynamic Compaction
Haul Excess Material	Grading	9/6/2028	3/22/2032	5.00	924	Haul Excess Material
Crush Concrete	Grading	9/6/2028	3/22/2032	5.00	924	Crush ConcreteCrush Concrete
Drainage	Grading	3/23/2032	5/21/2032	5.00	44.0	Drainage
Clean up	Grading	5/24/2032	6/22/2032	5.00	22.0	Clean up

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
Demolition	Off-Highway Trucks	Diesel	Average	15.0	8.00	376	0.38
Demolition	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Average	3.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Demolition	Sweepers/Scrubbers	Diesel	Average	2.00	8.00	36.0	0.46
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Site Preparation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Mobilization	Off-Highway Trucks	Diesel	Average	5.00	8.00	376	0.38
Deep Dynamic Compaction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Deep Dynamic Compaction	Off-Highway Trucks	Diesel	Average	10.0	8.00	376	0.38
Deep Dynamic Compaction	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Deep Dynamic Compaction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Deep Dynamic Compaction	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Deep Dynamic Compaction	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Deep Dynamic Compaction	Scrapers	Diesel	Average	1.00	8.00	423	0.48
Deep Dynamic Compaction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Haul Excess Material	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Haul Excess Material	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Haul Excess Material	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Haul Excess Material	Sweepers/Scrubbers	Diesel	Average	2.00	8.00	36.0	0.46
Haul Excess Material	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37

Crush Concrete	Excavators	Diesel	Average	4.00	8.00	36.0	0.38
Crush Concrete	Off-Highway Trucks	Diesel	Average	8.00	8.00	376	0.38
Crush Concrete	Other Construction Equipment	Diesel	Average	4.00	8.00	82.0	0.42
Crush Concrete	Other General Industrial Equipment	Diesel	Average	4.00	8.00	35.0	0.34
Crush Concrete	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Drainage	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Clean up	Sweepers/Scrubbers	Diesel	Average	1.00	8.00	36.0	0.46
Clean up	Off-Highway Trucks	Diesel	Average	5.00	8.00	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Aerial Lifts	Diesel	Tier 4 Final	1.00	8.00	46.0	0.31
Demolition	Off-Highway Trucks	Diesel	Tier 4 Final	15.0	8.00	376	0.38
Demolition	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	3.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Demolition	Other Construction Equipment	Diesel	Tier 4 Final	1.00	8.00	82.0	0.42
Demolition	Sweepers/Scrubbers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.46
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	8.00	376	0.38
Site Preparation	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74

Mobilization	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	8.00	376	0.38
Deep Dynamic Compaction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Deep Dynamic Compaction	Off-Highway Trucks	Diesel	Tier 4 Final	10.0	8.00	376	0.38
Deep Dynamic Compaction	Forklifts	Diesel	Tier 4 Final	1.00	8.00	82.0	0.20
Deep Dynamic Compaction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Deep Dynamic Compaction	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Deep Dynamic Compaction	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Deep Dynamic Compaction	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Deep Dynamic Compaction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Haul Excess Material	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Haul Excess Material	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Haul Excess Material	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Haul Excess Material	Sweepers/Scrubbers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.46
Haul Excess Material	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Crush Concrete	Excavators	Diesel	Tier 4 Final	4.00	8.00	36.0	0.38
Crush Concrete	Off-Highway Trucks	Diesel	Tier 4 Final	8.00	8.00	376	0.38
Crush Concrete	Other Construction Equipment	Diesel	Tier 4 Final	4.00	8.00	82.0	0.42
Crush Concrete	Other General Industrial Equipment	Diesel	Tier 4 Final	4.00	8.00	35.0	0.34
Crush Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Drainage	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37

Clean up	Sweepers/Scrubbers	Diesel	Tier 4 Final	1.00	8.00	36.0	0.46
Clean up	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	8.00	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	12.0	0.25	HHDT,MHDT
Demolition	Hauling	0.00	0.00	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	20.0	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	6.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	0.00	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Deep Dynamic Compaction	—	—	—	—
Deep Dynamic Compaction	Worker	30.0	0.25	LDA,LDT1,LDT2
Deep Dynamic Compaction	Vendor	8.00	0.25	HHDT,MHDT
Deep Dynamic Compaction	Hauling	0.00	0.00	HHDT
Deep Dynamic Compaction	Onsite truck	0.00	—	HHDT
Haul Excess Material	—	—	—	—
Haul Excess Material	Worker	30.0	0.25	LDA,LDT1,LDT2
Haul Excess Material	Vendor	8.00	0.25	HHDT,MHDT
Haul Excess Material	Hauling	70.2	0.25	HHDT
Haul Excess Material	Onsite truck	0.00	—	HHDT
Crush Concrete	—	—	—	—

Crush Concrete	Worker	14.0	0.25	LDA,LDT1,LDT2
Crush Concrete	Vendor	4.00	0.25	HHDT,MHDT
Crush Concrete	Hauling	0.00	0.00	HHDT
Crush Concrete	Onsite truck	0.00	—	HHDT
Drainage	—	—	—	—
Drainage	Worker	14.0	0.25	LDA,LDT1,LDT2
Drainage	Vendor	4.00	0.25	HHDT,MHDT
Drainage	Hauling	0.00	0.00	HHDT
Drainage	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	0.25	LDA,LDT1,LDT2
Mobilization	Vendor	2.00	0.25	HHDT,MHDT
Mobilization	Hauling	0.00	0.00	HHDT
Mobilization	Onsite truck	0.00	—	HHDT
Clean up	—	—	—	—
Clean up	Worker	10.0	0.25	LDA,LDT1,LDT2
Clean up	Vendor	0.00	0.00	HHDT,MHDT
Clean up	Hauling	0.00	0.00	HHDT
Clean up	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	12.0	0.25	HHDT,MHDT
Demolition	Hauling	0.00	0.00	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—

Site Preparation	Worker	20.0	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	6.00	0.25	HHDT,MHDT
Site Preparation	Hauling	0.00	0.00	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Deep Dynamic Compaction	—	—	—	—
Deep Dynamic Compaction	Worker	30.0	0.25	LDA,LDT1,LDT2
Deep Dynamic Compaction	Vendor	8.00	0.25	HHDT,MHDT
Deep Dynamic Compaction	Hauling	0.00	0.00	HHDT
Deep Dynamic Compaction	Onsite truck	0.00	—	HHDT
Haul Excess Material	—	—	—	—
Haul Excess Material	Worker	30.0	0.25	LDA,LDT1,LDT2
Haul Excess Material	Vendor	8.00	0.25	HHDT,MHDT
Haul Excess Material	Hauling	70.2	0.25	HHDT
Haul Excess Material	Onsite truck	0.00	—	HHDT
Crush Concrete	—	—	—	—
Crush Concrete	Worker	14.0	0.25	LDA,LDT1,LDT2
Crush Concrete	Vendor	4.00	0.25	HHDT,MHDT
Crush Concrete	Hauling	0.00	0.00	HHDT
Crush Concrete	Onsite truck	0.00	—	HHDT
Drainage	—	—	—	—
Drainage	Worker	14.0	0.25	LDA,LDT1,LDT2
Drainage	Vendor	4.00	0.25	HHDT,MHDT
Drainage	Hauling	0.00	0.00	HHDT
Drainage	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	0.25	LDA,LDT1,LDT2
Mobilization	Vendor	2.00	0.25	HHDT,MHDT
Mobilization	Hauling	0.00	0.00	HHDT

Mobilization	Onsite truck	0.00	—	HHDT
Clean up	—	—	—	—
Clean up	Worker	10.0	0.25	LDA,LDT1,LDT2
Clean up	Vendor	0.00	0.00	HHDT,MHDT
Clean up	Hauling	0.00	0.00	HHDT
Clean up	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Drainage	0.00	0.00	0.00	0.00	59,303

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	0.00	0.00	0.00	—
Mobilization	0.00	0.00	0.00	0.00	—
Deep Dynamic Compaction	0.00	0.00	1,960	0.00	—

Haul Excess Material	0.00	550,000	490	0.00	—
Crush Concrete	0.00	0.00	0.00	0.00	—
Drainage	0.00	0.00	0.00	0.00	—
Clean up	0.00	0.00	0.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Non-Asphalt Surfaces	21.3	0%
Parking Lot	1.44	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	0.00	690	0.05	0.01
2029	0.00	690	0.05	0.01
2030	0.00	690	0.05	0.01
2031	0.00	690	0.05	0.01
2032	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7

AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802

Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9

High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6

Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information. Trip Length reduced to 0.25 to represent "on-site" emissions.
Construction: Dust From Material Movement	estimated soil hauling

Rory M. Shaw Wetlands Park Phase 3 LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Mobilization (2033) - Unmitigated

3.2. Mobilization (2033) - Mitigated

3.3. Recreational Amenities (Building Construction) (2034) - Unmitigated

3.4. Recreational Amenities (Building Construction) (2034) - Mitigated

3.5. Recreational Amenities (Building Construction) (2035) - Unmitigated

3.6. Recreational Amenities (Building Construction) (2035) - Mitigated

3.7. Recreational Amenities (Paving) (2035) - Unmitigated

3.8. Recreational Amenities (Paving) (2035) - Mitigated

3.9. Recreational Amenities (Arch Coating) (2035) - Unmitigated

3.10. Recreational Amenities (Arch Coating) (2035) - Mitigated

3.11. Passive Methane Capture (2033) - Unmitigated

3.12. Passive Methane Capture (2033) - Mitigated

3.13. Passive Methane Capture (2034) - Unmitigated

3.14. Passive Methane Capture (2034) - Mitigated

3.15. Trenching for Utilities (2034) - Unmitigated

3.16. Trenching for Utilities (2034) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Rory M. Shaw Wetlands Park Phase 3 LST
Construction Start Date	9/3/2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
City Park	15.0	Acre	15.0	0.00	653,400	653,400	—	—
Other Non-Asphalt Surfaces	21.0	Acre	21.0	0.00	0.00	0.00	—	—

Parking Lot	160	Space	1.44	0.00	0.00	0.00	—	—
Other Non-Asphalt Surfaces	10.0	Acre	10.0	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.50	7.45	8.01	14.1	0.03	0.20	0.01	0.21	0.18	< 0.005	0.18	—	2,660	2,660	0.11	0.03	0.02	2,671
Mit.	7.24	7.24	3.03	16.5	0.03	0.08	0.01	0.09	0.07	< 0.005	0.08	—	2,660	2,660	0.11	0.03	0.02	2,671
% Reduced	4%	3%	62%	-17%	—	60%	—	57%	58%	—	57%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.50	7.45	9.73	15.6	0.06	0.38	0.01	0.38	0.35	< 0.005	0.35	—	6,887	6,887	0.28	0.06	< 0.005	6,911
Mit.	7.24	7.24	4.86	33.9	0.06	0.19	0.01	0.19	0.18	< 0.005	0.18	—	6,887	6,887	0.28	0.06	< 0.005	6,911
% Reduced	4%	3%	50%	-117%	—	51%	—	50%	48%	—	47%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.55	1.48	3.25	5.58	0.01	0.07	< 0.005	0.08	0.07	< 0.005	0.07	—	966	966	0.04	0.01	< 0.005	970
Mit.	1.25	1.24	1.36	6.26	0.01	0.02	< 0.005	0.03	0.02	< 0.005	0.03	—	966	966	0.04	0.01	< 0.005	970
% Reduced	19%	16%	58%	-12%	—	67%	—	64%	65%	—	64%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.28	0.27	0.59	1.02	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	160	160	0.01	< 0.005	< 0.005	161
Mit.	0.23	0.23	0.25	1.14	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	160	160	0.01	< 0.005	< 0.005	161
% Reduced	19%	16%	58%	-12%	—	67%	—	64%	65%	—	64%	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	143	1,110	—	—	—	10.5	—	—	6.00	—	—	—	—	—	—	—
Unmit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	—	143	1,110	—	—	—	10.5	—	—	6.00	—	—	—	—	—	—	—
Unmit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	Yes	No	No	Yes	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.29	0.25	2.29	4.56	0.01	0.04	< 0.005	0.05	0.04	< 0.005	0.04	—	687	687	0.03	0.01	< 0.005	690

2035	7.50	7.45	8.01	14.1	0.03	0.20	0.01	0.21	0.18	< 0.005	0.18	—	2,660	2,660	0.11	0.03	0.02	2,671
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	2.73	2.30	9.73	15.6	0.06	0.38	< 0.005	0.38	0.35	< 0.005	0.35	—	6,887	6,887	0.28	0.06	< 0.005	6,911
2034	1.22	1.03	8.22	14.2	0.03	0.21	0.01	0.22	0.19	< 0.005	0.19	—	2,660	2,660	0.12	0.03	< 0.005	2,671
2035	7.50	7.45	8.02	14.1	0.03	0.20	0.01	0.21	0.18	< 0.005	0.18	—	2,659	2,659	0.12	0.03	< 0.005	2,670
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.34	0.29	1.27	2.09	0.01	0.05	< 0.005	0.05	0.04	< 0.005	0.04	—	863	863	0.04	0.01	< 0.005	866
2034	0.35	0.30	2.55	4.77	0.01	0.06	< 0.005	0.06	0.05	< 0.005	0.05	—	807	807	0.03	0.01	< 0.005	810
2035	1.55	1.48	3.25	5.58	0.01	0.07	< 0.005	0.08	0.07	< 0.005	0.07	—	966	966	0.04	0.01	< 0.005	970
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.06	0.05	0.23	0.38	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	143	143	0.01	< 0.005	< 0.005	143
2034	0.06	0.05	0.47	0.87	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	134	134	0.01	< 0.005	< 0.005	134
2035	0.28	0.27	0.59	1.02	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	160	160	0.01	< 0.005	< 0.005	161

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2034	0.09	0.09	0.77	4.83	0.01	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	687	687	0.03	0.01	< 0.005	690
2035	7.24	7.24	3.03	16.5	0.03	0.08	0.01	0.09	0.07	< 0.005	0.08	—	2,660	2,660	0.11	0.03	0.02	2,671
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.89	0.85	4.86	33.9	0.06	0.19	< 0.005	0.19	0.18	< 0.005	0.18	—	6,887	6,887	0.28	0.06	< 0.005	6,911
2034	0.47	0.45	3.04	16.5	0.03	0.08	0.01	0.09	0.07	< 0.005	0.08	—	2,660	2,660	0.12	0.03	< 0.005	2,671
2035	7.24	7.24	3.04	16.5	0.03	0.08	0.01	0.09	0.07	< 0.005	0.08	—	2,659	2,659	0.12	0.03	< 0.005	2,670

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.11	0.11	0.60	4.32	0.01	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	863	863	0.04	0.01	< 0.005	866
2034	0.12	0.12	0.87	5.32	0.01	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	807	807	0.03	0.01	< 0.005	810
2035	1.25	1.24	1.36	6.26	0.01	0.02	< 0.005	0.03	0.02	< 0.005	0.03	—	966	966	0.04	0.01	< 0.005	970
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.02	0.02	0.11	0.79	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	143	143	0.01	< 0.005	< 0.005	143
2034	0.02	0.02	0.16	0.97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	134	134	0.01	< 0.005	< 0.005	134
2035	0.23	0.23	0.25	1.14	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	160	160	0.01	< 0.005	< 0.005	161

3. Construction Emissions Details

3.1. Mobilization (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.70	2.27	9.70	15.5	0.06	0.38	—	0.38	0.35	—	0.35	—	6,879	6,879	0.28	0.06	—	6,903
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	1.17	1.87	0.01	0.05	—	0.05	0.04	—	0.04	—	829	829	0.03	0.01	—	832
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.21	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.25	4.25	< 0.005	< 0.005	< 0.005	4.56
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Mobilization (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.82	4.83	33.8	0.06	0.19	—	0.19	0.18	—	0.18	—	6,879	6,879	0.28	0.06	—	6,903
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	0.58	4.07	0.01	0.02	—	0.02	0.02	—	0.02	—	829	829	0.03	0.01	—	832

Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.74	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	137	137	0.01	< 0.005	—	138
Dust From Material Movement	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.08	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.25	4.25	< 0.005	< 0.005	< 0.005	4.56
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.34
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.06	0.06	< 0.005	< 0.005	< 0.005	0.07
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Recreational Amenities (Building Construction) (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	8.11	13.8	0.03	0.21	—	0.21	0.19	—	0.19	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.33	2.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	432	432	0.02	< 0.005	—	434
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.6	71.6	< 0.005	< 0.005	—	71.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.28	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.0	15.0	0.01	< 0.005	< 0.005	16.1
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.6	15.6	< 0.005	< 0.005	< 0.005	16.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.66
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.54	2.54	< 0.005	< 0.005	< 0.005	2.67
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.44
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.44
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Recreational Amenities (Building Construction) (2034) - Mitigated

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

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

Off-Road Equipm	0.37	0.35	2.92	16.2	0.03	0.08	—	0.08	0.07	—	0.07	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.48	2.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	432	432	0.02	< 0.005	—	434
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.49	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.6	71.6	< 0.005	< 0.005	—	71.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.02	0.28	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.0	15.0	0.01	< 0.005	< 0.005	16.1
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.6	15.6	< 0.005	< 0.005	< 0.005	16.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.48	2.48	< 0.005	< 0.005	< 0.005	2.66
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.54	2.54	< 0.005	< 0.005	< 0.005	2.67
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.41	0.41	< 0.005	< 0.005	< 0.005	0.44
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.44
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Recreational Amenities (Building Construction) (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	0.92	7.90	13.8	0.03	0.19	—	0.19	0.18	—	0.18	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	0.92	7.90	13.8	0.03	0.19	—	0.19	0.18	—	0.18	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	2.01	3.50	0.01	0.05	—	0.05	0.05	—	0.05	—	669	669	0.03	0.01	—	671

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.64	< 0.005	0.01	—	0.01	0.01	—	0.01	—	111	111	< 0.005	< 0.005	—	111
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.01	16.2
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.01	15.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.27	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	0.01	< 0.005	< 0.005	15.9
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	< 0.005	16.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	4.07
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.86	3.86	< 0.005	< 0.005	< 0.005	4.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Recreational Amenities (Building Construction) (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.35	2.92	16.2	0.03	0.08	—	0.08	0.07	—	0.07	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.35	2.92	16.2	0.03	0.08	—	0.08	0.07	—	0.07	—	2,629	2,629	0.11	0.02	—	2,638
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.74	4.12	0.01	0.02	—	0.02	0.02	—	0.02	—	669	669	0.03	0.01	—	671
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.75	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	111	111	< 0.005	< 0.005	—	111

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.01	16.2
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.01	15.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.27	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.8	14.8	0.01	< 0.005	< 0.005	15.9
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	< 0.005	16.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	< 0.005	4.07
Vendor	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.86	3.86	< 0.005	< 0.005	< 0.005	4.06
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.63	0.63	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Recreational Amenities (Paving) (2035) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.55	5.73	9.80	0.01	0.15	—	0.15	0.14	—	0.14	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.86	1.48	< 0.005	0.02	—	0.02	0.02	—	0.02	—	228	228	0.01	< 0.005	—	228
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.84	4.84	< 0.005	< 0.005	< 0.005	5.19

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Recreational Amenities (Paving) (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.29	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	228
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.84	4.84	< 0.005	< 0.005	< 0.005	5.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Recreational Amenities (Arch Coating) (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	2.27	3.30	0.01	0.02	—	0.02	0.02	—	0.02	—	401	401	0.02	< 0.005	—	402
Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	2.27	3.30	0.01	0.02	—	0.02	0.02	—	0.02	—	401	401	0.02	< 0.005	—	402
Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.05	0.04	0.34	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Architectural Coatings	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.99	9.99	< 0.005	< 0.005	—	10.0
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.84	4.84	< 0.005	< 0.005	< 0.005	5.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.73	4.73	< 0.005	< 0.005	< 0.005	5.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.77

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Recreational Amenities (Arch Coating) (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.94	2.89	0.01	0.01	—	0.01	0.01	—	0.01	—	401	401	0.02	< 0.005	—	402
Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	1.94	2.89	0.01	0.01	—	0.01	0.01	—	0.01	—	401	401	0.02	< 0.005	—	402

Architectural Coatings	7.15	7.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.29	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Architectural Coatings	1.08	1.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.99	9.99	< 0.005	< 0.005	—	10.0
Architectural Coatings	0.20	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.84	4.84	< 0.005	< 0.005	< 0.005	5.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.73	4.73	< 0.005	< 0.005	< 0.005	5.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.72	0.72	< 0.005	< 0.005	< 0.005	0.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Passive Methane Capture (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.83	4.01	0.01	0.03	—	0.03	0.03	—	0.03	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.0	33.0	< 0.005	< 0.005	—	33.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.47	5.47	< 0.005	< 0.005	—	5.49
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Passive Methane Capture (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.31	4.40	0.01	0.01	—	0.01	0.01	—	0.01	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.0	33.0	< 0.005	< 0.005	—	33.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.47	5.47	< 0.005	< 0.005	—	5.49
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Passive Methane Capture (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.82	4.01	0.01	0.03	—	0.03	0.03	—	0.03	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.23	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	79.5	79.5	< 0.005	< 0.005	—	79.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.04	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.2	13.2	< 0.005	< 0.005	—	13.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.80	1.80	< 0.005	< 0.005	< 0.005	1.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Passive Methane Capture (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.31	4.40	0.01	0.01	—	0.01	0.01	—	0.01	—	625	625	0.03	0.01	—	627
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	79.5	79.5	< 0.005	< 0.005	—	79.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.2	13.2	< 0.005	< 0.005	—	13.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.80	1.80	< 0.005	< 0.005	< 0.005	1.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching for Utilities (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.23	2.29	4.51	0.01	0.04	—	0.04	0.04	—	0.04	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.27	0.23	2.29	4.51	0.01	0.04	—	0.04	0.04	—	0.04	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.12	0.10	0.97	1.90	< 0.005	0.02	—	0.02	0.02	—	0.02	—	289	289	0.01	< 0.005	—	290
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.02	0.18	0.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.99	2.99	< 0.005	< 0.005	< 0.005	3.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.23
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching for Utilities (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.77	4.78	0.01	0.01	—	0.01	0.01	—	0.01	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.77	4.78	0.01	0.01	—	0.01	0.01	—	0.01	—	684	684	0.03	0.01	—	686
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.03	0.03	0.32	2.02	< 0.005	0.01	—	0.01	0.01	—	0.01	—	289	289	0.01	< 0.005	—	290
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	47.8	47.8	< 0.005	< 0.005	—	47.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.29
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.99	2.99	< 0.005	< 0.005	< 0.005	3.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.27	1.27	< 0.005	< 0.005	< 0.005	1.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.23
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Mobilization	Site Preparation	10/3/2033	12/1/2033	5.00	44.0	Mobilization
Recreational Amenities (Building Construction)	Building Construction	10/9/2034	5/10/2035	5.00	154	Recreational Amenities (Building Construction)
Recreational Amenities (Paving)	Paving	5/11/2035	7/26/2035	5.00	55.0	Recreational Amenities (Paving)
Recreational Amenities (Arch Coating)	Architectural Coating	7/27/2035	10/11/2035	5.00	55.0	Recreational Amenities (Arch Coating)
Passive Methane Capture	Trenching	12/5/2033	3/6/2034	5.00	66.0	Passive Methane Capture

Trenching for Utilities	Trenching	3/7/2034	10/6/2034	5.00	154	Trenching for Utilities

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Mobilization	Off-Highway Trucks	Diesel	Average	5.00	8.00	376	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Cranes	Diesel	Average	1.00	8.00	367	0.29
Recreational Amenities (Building Construction)	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Recreational Amenities (Building Construction)	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Recreational Amenities (Building Construction)	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Recreational Amenities (Paving)	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Recreational Amenities (Paving)	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Recreational Amenities (Paving)	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Recreational Amenities (Arch Coating)	Air Compressors	Diesel	Average	3.00	6.00	37.0	0.48
Passive Methane Capture	Bore/Drill Rigs	Diesel	Average	1.00	7.00	83.0	0.50

Passive Methane Capture	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching for Utilities	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Trenching for Utilities	Trenchers	Diesel	Average	2.00	2.00	40.0	0.50

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Mobilization	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	8.00	376	0.38
Mobilization	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Recreational Amenities (Building Construction)	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Recreational Amenities (Building Construction)	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Recreational Amenities (Building Construction)	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Recreational Amenities (Building Construction)	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Recreational Amenities (Paving)	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Recreational Amenities (Paving)	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Recreational Amenities (Paving)	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Recreational Amenities (Arch Coating)	Air Compressors	Diesel	Tier 4 Final	3.00	6.00	37.0	0.48

Passive Methane Capture	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	7.00	83.0	0.50
Passive Methane Capture	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching for Utilities	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Trenching for Utilities	Trenchers	Diesel	Tier 4 Final	2.00	2.00	40.0	0.50

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Recreational Amenities (Building Construction)	—	—	—	—
Recreational Amenities (Building Construction)	Worker	50.0	0.25	LDA,LDT1,LDT2
Recreational Amenities (Building Construction)	Vendor	10.0	0.25	HHDT,MHDT
Recreational Amenities (Building Construction)	Hauling	0.00	0.25	HHDT
Recreational Amenities (Building Construction)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Paving)	—	—	—	—
Recreational Amenities (Paving)	Worker	16.0	0.25	LDA,LDT1,LDT2
Recreational Amenities (Paving)	Vendor	0.00	0.25	HHDT,MHDT
Recreational Amenities (Paving)	Hauling	0.00	0.25	HHDT
Recreational Amenities (Paving)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Arch Coating)	—	—	—	—
Recreational Amenities (Arch Coating)	Worker	16.0	0.25	LDA,LDT1,LDT2

Recreational Amenities (Arch Coating)	Vendor	0.00	10.2	HHDT,MHDT
Recreational Amenities (Arch Coating)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Arch Coating)	Onsite truck	—	—	HHDT
Passive Methane Capture	—	—	—	—
Passive Methane Capture	Worker	6.00	0.25	LDA,LDT1,LDT2
Passive Methane Capture	Vendor	0.00	10.2	HHDT,MHDT
Passive Methane Capture	Hauling	0.00	20.0	HHDT
Passive Methane Capture	Onsite truck	0.00	—	HHDT
Trenching for Utilities	—	—	—	—
Trenching for Utilities	Worker	10.0	0.25	LDA,LDT1,LDT2
Trenching for Utilities	Vendor	0.00	10.2	HHDT,MHDT
Trenching for Utilities	Hauling	0.00	20.0	HHDT
Trenching for Utilities	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	0.25	LDA,LDT1,LDT2
Mobilization	Vendor	2.00	0.25	HHDT,MHDT
Mobilization	Hauling	0.00	20.0	HHDT
Mobilization	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Recreational Amenities (Building Construction)	—	—	—	—
Recreational Amenities (Building Construction)	Worker	50.0	0.25	LDA,LDT1,LDT2
Recreational Amenities (Building Construction)	Vendor	10.0	0.25	HHDT,MHDT

Recreational Amenities (Building Construction)	Hauling	0.00	0.25	HHDT
Recreational Amenities (Building Construction)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Paving)	—	—	—	—
Recreational Amenities (Paving)	Worker	16.0	0.25	LDA,LDT1,LDT2
Recreational Amenities (Paving)	Vendor	0.00	0.25	HHDT,MHDT
Recreational Amenities (Paving)	Hauling	0.00	0.25	HHDT
Recreational Amenities (Paving)	Onsite truck	0.00	—	HHDT
Recreational Amenities (Arch Coating)	—	—	—	—
Recreational Amenities (Arch Coating)	Worker	16.0	0.25	LDA,LDT1,LDT2
Recreational Amenities (Arch Coating)	Vendor	0.00	10.2	HHDT,MHDT
Recreational Amenities (Arch Coating)	Hauling	0.00	20.0	HHDT
Recreational Amenities (Arch Coating)	Onsite truck	—	—	HHDT
Passive Methane Capture	—	—	—	—
Passive Methane Capture	Worker	6.00	0.25	LDA,LDT1,LDT2
Passive Methane Capture	Vendor	0.00	10.2	HHDT,MHDT
Passive Methane Capture	Hauling	0.00	20.0	HHDT
Passive Methane Capture	Onsite truck	0.00	—	HHDT
Trenching for Utilities	—	—	—	—
Trenching for Utilities	Worker	10.0	0.25	LDA,LDT1,LDT2
Trenching for Utilities	Vendor	0.00	10.2	HHDT,MHDT
Trenching for Utilities	Hauling	0.00	20.0	HHDT
Trenching for Utilities	Onsite truck	0.00	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	14.0	0.25	LDA,LDT1,LDT2

Mobilization	Vendor	2.00	0.25	HHDT,MHDT
Mobilization	Hauling	0.00	20.0	HHDT
Mobilization	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Recreational Amenities (Arch Coating)	0.00	0.00	0.00	0.00	84,785

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Mobilization	0.00	0.00	0.00	0.00	—
Recreational Amenities (Paving)	0.00	0.00	0.00	0.00	32.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
City Park	0.00	0%
Other Non-Asphalt Surfaces	21.0	0%
Parking Lot	1.44	100%
Other Non-Asphalt Surfaces	10.0	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2033	0.00	690	0.05	0.01
2034	0.00	690	0.05	0.01
2035	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1

Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345

Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1

Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0

A-343

Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information. Trip length reduced to 0.25 miles to reflect "on-site" emissions.
Construction: Dust From Material Movement	No import/export

Upper Storm Drain System Phase 3 Regional Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.2. Demolition (2026) - Mitigated

3.3. Site Preparation (2026) - Unmitigated

3.4. Site Preparation (2026) - Mitigated

3.5. Storm Drain Install (2027) - Unmitigated

3.6. Storm Drain Install (2027) - Mitigated

3.7. Paving (2027) - Unmitigated

3.8. Paving (2027) - Mitigated

3.9. Trenching (2026) - Unmitigated

3.10. Trenching (2026) - Mitigated

3.11. Trenching (2027) - Unmitigated

3.12. Trenching (2027) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Upper Storm Drain System Phase 3 Regional
Construction Start Date	7/8/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	3.50	Acre	3.50	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.32	1.11	8.60	16.1	0.02	0.31	0.55	0.78	0.28	0.15	0.38	—	2,932	2,932	0.13	0.32	4.53	2,965
Mit.	1.32	1.11	8.60	16.1	0.02	0.31	0.55	0.78	0.28	0.15	0.38	—	2,932	2,932	0.13	0.32	4.53	2,965
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.27	1.07	7.82	14.9	0.02	0.29	0.36	0.64	0.26	0.09	0.35	—	2,780	2,780	0.11	0.09	0.05	2,809
Mit.	1.27	1.07	7.82	14.9	0.02	0.29	0.36	0.64	0.26	0.09	0.35	—	2,780	2,780	0.11	0.09	0.05	2,809
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.66	0.55	4.35	7.03	0.01	0.15	0.22	0.37	0.13	0.05	0.19	—	1,344	1,344	0.05	0.04	0.38	1,354
Mit.	0.66	0.55	4.35	7.03	0.01	0.15	0.22	0.37	0.13	0.05	0.19	—	1,344	1,344	0.05	0.04	0.38	1,354
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

A-350

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	0.10	0.79	1.28	< 0.005	0.03	0.04	0.07	0.02	0.01	0.03	—	222	222	0.01	0.01	0.06	224
Mit.	0.12	0.10	0.79	1.28	< 0.005	0.03	0.04	0.07	0.02	0.01	0.03	—	222	222	0.01	0.01	0.06	224
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.24	1.03	8.60	16.1	0.02	0.31	0.55	0.68	0.28	0.15	0.38	—	2,932	2,932	0.13	0.32	4.53	2,965
2027	1.32	1.11	8.51	15.0	0.02	0.28	0.50	0.78	0.26	0.12	0.38	—	2,779	2,779	0.11	0.08	1.86	2,809
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	1.12	0.93	7.79	14.9	0.02	0.29	0.36	0.64	0.26	0.09	0.35	—	2,780	2,780	0.11	0.09	0.05	2,809
2027	1.27	1.07	7.82	14.8	0.02	0.26	0.36	0.60	0.24	0.09	0.32	—	2,767	2,767	0.11	0.08	0.05	2,795
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.36	0.29	2.54	4.64	0.01	0.09	0.13	0.22	0.08	0.03	0.12	—	941	941	0.04	0.04	0.34	954
2027	0.66	0.55	4.35	7.03	0.01	0.15	0.22	0.37	0.13	0.05	0.19	—	1,344	1,344	0.05	0.03	0.38	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.05	0.46	0.85	< 0.005	0.02	0.02	0.04	0.01	0.01	0.02	—	156	156	0.01	0.01	0.06	158
2027	0.12	0.10	0.79	1.28	< 0.005	0.03	0.04	0.07	0.02	0.01	0.03	—	222	222	0.01	< 0.005	0.06	224

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.24	1.03	8.60	16.1	0.02	0.31	0.55	0.68	0.28	0.15	0.38	—	2,932	2,932	0.13	0.32	4.53	2,965
2027	1.32	1.11	8.51	15.0	0.02	0.28	0.50	0.78	0.26	0.12	0.38	—	2,779	2,779	0.11	0.08	1.86	2,809
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.12	0.93	7.79	14.9	0.02	0.29	0.36	0.64	0.26	0.09	0.35	—	2,780	2,780	0.11	0.09	0.05	2,809
2027	1.27	1.07	7.82	14.8	0.02	0.26	0.36	0.60	0.24	0.09	0.32	—	2,767	2,767	0.11	0.08	0.05	2,795
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.36	0.29	2.54	4.64	0.01	0.09	0.13	0.22	0.08	0.03	0.12	—	941	941	0.04	0.04	0.34	954
2027	0.66	0.55	4.35	7.03	0.01	0.15	0.22	0.37	0.13	0.05	0.19	—	1,344	1,344	0.05	0.03	0.38	1,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.07	0.05	0.46	0.85	< 0.005	0.02	0.02	0.04	0.01	0.01	0.02	—	156	156	0.01	0.01	0.06	158
2027	0.12	0.10	0.79	1.28	< 0.005	0.03	0.04	0.07	0.02	0.01	0.03	—	222	222	0.01	< 0.005	0.06	224

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	8.03	14.6	0.02	0.30	—	0.30	0.28	—	0.28	—	2,253	2,253	0.09	0.02	—	2,261
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.73	1.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	204	204	0.01	< 0.005	—	204
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.13	0.24	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.29	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	271	271	0.01	0.01	0.92	275
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.49	0.19	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	408	408	0.02	0.07	0.92	429
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.6	23.6	< 0.005	< 0.005	0.04	23.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.9	36.9	< 0.005	0.01	0.04	38.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.90	3.90	< 0.005	< 0.005	0.01	3.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.11	6.11	< 0.005	< 0.005	0.01	6.42

3.2. Demolition (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A-354	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	8.03	14.6	0.02	0.30	—	0.30	0.28	—	0.28	—	2,253	2,253	0.09	0.02	—	2,261
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.73	1.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	204	204	0.01	< 0.005	—	204
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.24	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.07	0.08	1.29	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	271	271	0.01	0.01	0.92	275
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.49	0.19	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	408	408	0.02	0.07	0.92	429
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.6	23.6	< 0.005	< 0.005	0.04	23.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.9	36.9	< 0.005	0.01	0.04	38.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.90	3.90	< 0.005	< 0.005	0.01	3.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.11	6.11	< 0.005	< 0.005	0.01	6.42

3.3. Site Preparation (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.15	0.03	2.43	0.96	0.01	0.03	0.55	0.58	0.03	0.15	0.18	—	2,019	2,019	0.11	0.32	4.53	2,123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	88.5	88.5	< 0.005	0.01	0.09	93.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	15.4

3.4. Site Preparation (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.15	0.03	2.43	0.96	0.01	0.03	0.55	0.58	0.03	0.15	0.18	—	2,019	2,019	0.11	0.32	4.53	2,123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	88.5	88.5	< 0.005	0.01	0.09	93.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	15.4

3.5. Storm Drain Install (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	0.97	8.38	9.56	0.02	0.28	—	0.28	0.26	—	0.26	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.88	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	437	437	0.02	< 0.005	—	438
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.34	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.3	72.3	< 0.005	< 0.005	—	72.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.13	2.28	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	505	505	0.02	0.02	1.57	512
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.46	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	109	109	< 0.005	< 0.005	0.15	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.1	18.1	< 0.005	< 0.005	0.03	18.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Storm Drain Install (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	0.97	8.38	9.56	0.02	0.28	—	0.28	0.26	—	0.26	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.88	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	437	437	0.02	< 0.005	—	438
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.34	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.3	72.3	< 0.005	< 0.005	—	72.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.15	0.13	0.13	2.28	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	505	505	0.02	0.02	1.57	512
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.46	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	109	109	< 0.005	< 0.005	0.15	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.1	18.1	< 0.005	< 0.005	0.03	18.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.70	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	119	119	< 0.005	< 0.005	—	120
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.44	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	319	319	0.01	0.01	0.99	324
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.10	1.22	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	302	302	< 0.005	0.01	0.03	306
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.7	27.7	< 0.005	< 0.005	0.04	28.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.59	4.59	< 0.005	< 0.005	0.01	4.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Paving (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.70	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	119	119	< 0.005	< 0.005	—	120
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	1.44	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	319	319	0.01	0.01	0.99	324
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.10	1.22	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	302	302	< 0.005	0.01	0.03	306
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	27.7	27.7	< 0.005	< 0.005	0.04	28.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.59	4.59	< 0.005	< 0.005	0.01	4.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Trenching (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.22	0.18	1.52	2.88	< 0.005	0.06	—	0.06	0.05	—	0.05	—	446	446	0.02	< 0.005	—	448
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.03	0.28	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.9	73.9	< 0.005	< 0.005	—	74.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.16	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	244	244	0.01	0.01	0.83	247
Vendor	0.03	0.01	0.48	0.23	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	—	436	436	0.02	0.06	1.18	457
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.08	0.99	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	231	231	0.01	0.01	0.02	234
Vendor	0.03	0.01	0.50	0.24	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	—	437	437	0.02	0.06	0.03	456
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.01	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.6	49.6	< 0.005	< 0.005	0.08	50.3
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.3	92.3	< 0.005	0.01	0.11	96.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.21	8.21	< 0.005	< 0.005	0.01	8.32
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.02	16.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Trenching (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.22	0.18	1.52	2.88	< 0.005	0.06	—	0.06	0.05	—	0.05	—	446	446	0.02	< 0.005	—	448
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.9	73.9	< 0.005	< 0.005	—	74.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.16	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	244	244	0.01	0.01	0.83	247
Vendor	0.03	0.01	0.48	0.23	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	—	436	436	0.02	0.06	1.18	457
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.08	0.99	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	231	231	0.01	0.01	0.02	234
Vendor	0.03	0.01	0.50	0.24	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	—	437	437	0.02	0.06	0.03	456
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.6	49.6	< 0.005	< 0.005	0.08	50.3
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	92.3	92.3	< 0.005	0.01	0.11	96.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.21	8.21	< 0.005	< 0.005	0.01	8.32
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.3	15.3	< 0.005	< 0.005	0.02	16.0

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Trenching (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.59	3.21	< 0.005	0.06	—	0.06	0.05	—	0.05	—	496	496	0.02	< 0.005	—	498
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.04	0.04	0.29	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.1	82.1	< 0.005	< 0.005	—	82.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.08	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	239	239	0.01	0.01	0.75	243
Vendor	0.03	0.01	0.46	0.22	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	428	428	0.02	0.06	1.12	447
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.08	0.92	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	227	227	< 0.005	0.01	0.02	229
Vendor	0.03	0.01	0.48	0.22	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	428	428	0.02	0.06	0.03	446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	54.0	54.0	< 0.005	< 0.005	0.08	54.7
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	101	101	< 0.005	0.01	0.11	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.95	8.95	< 0.005	< 0.005	0.01	9.06
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.6	16.6	< 0.005	< 0.005	0.02	17.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Trenching (2027) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.59	3.21	< 0.005	0.06	—	0.06	0.05	—	0.05	—	496	496	0.02	< 0.005	—	498
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.29	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.1	82.1	< 0.005	< 0.005	—	82.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.08	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	239	239	0.01	0.01	0.75	243
Vendor	0.03	0.01	0.46	0.22	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	428	428	0.02	0.06	1.12	447
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.08	0.92	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	227	227	< 0.005	0.01	0.02	229
Vendor	0.03	0.01	0.48	0.22	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	428	428	0.02	0.06	0.03	446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	54.0	54.0	< 0.005	< 0.005	0.08	54.7
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	101	101	< 0.005	0.01	0.11	105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.95	8.95	< 0.005	< 0.005	0.01	9.06
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.6	16.6	< 0.005	< 0.005	0.02	17.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/8/2026	8/21/2026	5.00	33.0	—
Site Preparation	Site Preparation	8/24/2026	9/14/2026	5.00	16.0	—
Storm Drain Install	Building Construction	5/3/2027	8/24/2027	5.00	82.0	—
Paving	Paving	8/25/2027	10/8/2027	5.00	33.0	—
Trenching	Trenching	9/15/2026	4/30/2027	5.00	164	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	6.00	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	29.7	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	18.5	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	10.2	HHDT,MHDT
Storm Drain Install	Hauling	0.00	20.0	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT

Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	14.0	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	6.00	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	29.7	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	18.5	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	10.2	HHDT,MHDT
Storm Drain Install	Hauling	0.00	20.0	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT

Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	14.0	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—

Site Preparation	0.00	3,800	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	3.50

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	3.50	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	690	0.05	0.01
2027	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8

Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903

Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9

Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.

Upper Storm Drain System Phase 2 Regional Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

3.2. Demolition (2028) - Mitigated

3.3. Site Preparation (2028) - Unmitigated

3.4. Site Preparation (2028) - Mitigated

3.5. Site Preparation (2029) - Unmitigated

3.6. Site Preparation (2029) - Mitigated

3.7. Storm Drain Install (2030) - Unmitigated

3.8. Storm Drain Install (2030) - Mitigated

3.9. Storm Drain Install (2031) - Unmitigated

3.10. Storm Drain Install (2031) - Mitigated

3.11. Paving (2031) - Unmitigated

3.12. Paving (2031) - Mitigated

3.13. Trenching (2029) - Unmitigated

3.14. Trenching (2029) - Mitigated

3.15. Trenching (2030) - Unmitigated

3.16. Trenching (2030) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Upper Storm Drain System Phase 2 Regional
Construction Start Date	7/25/2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	6.00	Acre	6.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.22	1.01	8.39	16.8	0.03	0.25	0.65	0.90	0.23	0.16	0.39	—	3,559	3,559	0.14	0.18	2.96	3,618
Mit.	1.22	1.01	8.39	16.8	0.03	0.25	0.65	0.90	0.23	0.16	0.39	—	3,559	3,559	0.14	0.18	2.96	3,618
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.22	1.01	8.45	16.6	0.03	0.25	1.19	1.25	0.23	0.33	0.39	—	4,173	4,173	0.21	0.67	0.22	4,377
Mit.	1.22	1.01	8.45	16.6	0.03	0.25	1.19	1.25	0.23	0.33	0.39	—	4,173	4,173	0.21	0.67	0.22	4,377
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74	0.62	4.88	10.2	0.02	0.14	0.29	0.43	0.13	0.07	0.20	—	1,980	1,980	0.08	0.10	0.61	2,004
Mit.	0.74	0.62	4.88	10.2	0.02	0.14	0.29	0.43	0.13	0.07	0.20	—	1,980	1,980	0.08	0.10	0.61	2,004
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.11	0.89	1.86	< 0.005	0.03	0.05	0.08	0.02	0.01	0.04	—	328	328	0.01	0.02	0.10	332
Mit.	0.14	0.11	0.89	1.86	< 0.005	0.03	0.05	0.08	0.02	0.01	0.04	—	328	328	0.01	0.02	0.10	332
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.22	0.99	8.39	16.8	0.03	0.25	0.65	0.90	0.23	0.16	0.39	—	3,559	3,559	0.14	0.18	2.96	3,618
2029	1.01	0.84	6.58	14.9	0.02	0.20	0.36	0.55	0.18	0.09	0.27	—	2,751	2,751	0.10	0.08	1.59	2,781
2030	1.19	1.01	7.66	14.8	0.02	0.23	0.50	0.73	0.21	0.12	0.33	—	2,736	2,736	0.10	0.08	1.47	2,764
2031	1.17	0.97	7.45	11.2	0.02	0.22	0.50	0.72	0.20	0.12	0.32	—	2,417	2,417	0.08	0.02	1.00	2,425

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.22	0.99	8.45	16.6	0.03	0.25	1.19	1.25	0.23	0.33	0.39	—	4,173	4,173	0.21	0.67	0.22	4,377
2029	1.00	0.83	6.61	14.7	0.03	0.20	1.19	1.25	0.18	0.33	0.38	—	4,074	4,074	0.21	0.64	0.20	4,270
2030	1.19	1.01	7.68	14.7	0.02	0.23	0.50	0.73	0.21	0.12	0.33	—	2,724	2,724	0.10	0.08	0.04	2,751
2031	1.16	0.97	7.47	10.9	0.02	0.22	0.50	0.72	0.20	0.12	0.32	—	2,392	2,392	0.08	0.03	0.03	2,404
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.30	0.23	2.38	3.96	0.01	0.06	0.25	0.31	0.06	0.07	0.12	—	1,173	1,173	0.05	0.10	0.61	1,205
2029	0.69	0.57	4.66	10.2	0.02	0.14	0.27	0.41	0.13	0.07	0.19	—	1,980	1,980	0.08	0.07	0.55	2,004
2030	0.74	0.62	4.88	9.50	0.02	0.14	0.29	0.43	0.13	0.07	0.20	—	1,852	1,852	0.07	0.05	0.41	1,868
2031	0.60	0.50	3.93	5.59	0.01	0.11	0.22	0.33	0.10	0.05	0.15	—	1,089	1,089	0.04	0.02	0.19	1,094
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.06	0.04	0.43	0.72	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	194	194	0.01	0.02	0.10	199
2029	0.13	0.10	0.85	1.86	< 0.005	0.02	0.05	0.07	0.02	0.01	0.04	—	328	328	0.01	0.01	0.09	332
2030	0.14	0.11	0.89	1.73	< 0.005	0.03	0.05	0.08	0.02	0.01	0.04	—	307	307	0.01	0.01	0.07	309
2031	0.11	0.09	0.72	1.02	< 0.005	0.02	0.04	0.06	0.02	0.01	0.03	—	180	180	0.01	< 0.005	0.03	181

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.22	0.99	8.39	16.8	0.03	0.25	0.65	0.90	0.23	0.16	0.39	—	3,559	3,559	0.14	0.18	2.96	3,618
2029	1.01	0.84	6.58	14.9	0.02	0.20	0.36	0.55	0.18	0.09	0.27	—	2,751	2,751	0.10	0.08	1.59	2,781
2030	1.19	1.01	7.66	14.8	0.02	0.23	0.50	0.73	0.21	0.12	0.33	—	2,736	2,736	0.10	0.08	1.47	2,764
2031	1.17	0.97	7.45	11.2	0.02	0.22	0.50	0.72	0.20	0.12	0.32	—	2,417	2,417	0.08	0.02	1.00	2,425

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.22	0.99	8.45	16.6	0.03	0.25	1.19	1.25	0.23	0.33	0.39	—	4,173	4,173	0.21	0.67	0.22	4,377
2029	1.00	0.83	6.61	14.7	0.03	0.20	1.19	1.25	0.18	0.33	0.38	—	4,074	4,074	0.21	0.64	0.20	4,270
2030	1.19	1.01	7.68	14.7	0.02	0.23	0.50	0.73	0.21	0.12	0.33	—	2,724	2,724	0.10	0.08	0.04	2,751
2031	1.16	0.97	7.47	10.9	0.02	0.22	0.50	0.72	0.20	0.12	0.32	—	2,392	2,392	0.08	0.03	0.03	2,404
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.30	0.23	2.38	3.96	0.01	0.06	0.25	0.31	0.06	0.07	0.12	—	1,173	1,173	0.05	0.10	0.61	1,205
2029	0.69	0.57	4.66	10.2	0.02	0.14	0.27	0.41	0.13	0.07	0.19	—	1,980	1,980	0.08	0.07	0.55	2,004
2030	0.74	0.62	4.88	9.50	0.02	0.14	0.29	0.43	0.13	0.07	0.20	—	1,852	1,852	0.07	0.05	0.41	1,868
2031	0.60	0.50	3.93	5.59	0.01	0.11	0.22	0.33	0.10	0.05	0.15	—	1,089	1,089	0.04	0.02	0.19	1,094
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.06	0.04	0.43	0.72	< 0.005	0.01	0.05	0.06	0.01	0.01	0.02	—	194	194	0.01	0.02	0.10	199
2029	0.13	0.10	0.85	1.86	< 0.005	0.02	0.05	0.07	0.02	0.01	0.04	—	328	328	0.01	0.01	0.09	332
2030	0.14	0.11	0.89	1.73	< 0.005	0.03	0.05	0.08	0.02	0.01	0.04	—	307	307	0.01	0.01	0.07	309
2031	0.11	0.09	0.72	1.02	< 0.005	0.02	0.04	0.06	0.02	0.01	0.03	—	180	180	0.01	< 0.005	0.03	181

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

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

Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.64	3.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	513	513	0.02	< 0.005	—	514
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.61	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.9	84.9	< 0.005	< 0.005	—	85.2
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.02	1.07	0.43	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	912	912	0.05	0.15	1.84	959
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.12	1.44	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	371	371	< 0.005	0.01	0.03	376
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	1.11	0.43	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	913	913	0.05	0.15	0.05	958
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.7	85.7	< 0.005	< 0.005	0.11	86.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.26	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	208	208	0.01	0.03	0.18	218
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.4	34.4	< 0.005	0.01	0.03	36.1

3.2. Demolition (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.64	3.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	513	513	0.02	< 0.005	—	514
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.61	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.9	84.9	< 0.005	< 0.005	—	85.2

Demoliti	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.69	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	392	392	< 0.005	0.01	1.12	397
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.02	1.07	0.43	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	912	912	0.05	0.15	1.84	959
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.12	1.44	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	371	371	< 0.005	0.01	0.03	376
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	1.11	0.43	0.01	0.01	0.26	0.27	0.01	0.07	0.08	—	913	913	0.05	0.15	0.05	958
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	85.7	85.7	< 0.005	< 0.005	0.11	86.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.26	0.10	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	208	208	0.01	0.03	0.18	218
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.4	34.4	< 0.005	0.01	0.03	36.1

3.3. Site Preparation (2028) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.28	0.06	5.09	1.97	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,173	4,173	0.21	0.67	0.22	4,377
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.45	0.17	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	367	367	0.02	0.06	0.32	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.8	60.8	< 0.005	0.01	0.05	63.9

3.4. Site Preparation (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.28	0.06	5.09	1.97	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,173	4,173	0.21	0.67	0.22	4,377
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.45	0.17	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	367	367	0.02	0.06	0.32	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	60.8	60.8	< 0.005	0.01	0.05	63.9

3.5. Site Preparation (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	A-407	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.28	0.06	4.91	1.92	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,074	4,074	0.21	0.64	0.20	4,270
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	95.6	95.6	< 0.005	0.01	0.08	100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.8	15.8	< 0.005	< 0.005	0.01	16.6

3.6. Site Preparation (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.28	0.06	4.91	1.92	0.03	0.06	1.19	1.24	0.06	0.32	0.38	—	4,074	4,074	0.21	0.64	0.20	4,270
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	95.6	95.6	< 0.005	0.01	0.08	100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.8	15.8	< 0.005	< 0.005	0.01	16.6

3.7. Storm Drain Install (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.00	2.50	0.01	0.06	—	0.06	0.06	—	0.06	—	514	514	0.02	< 0.005	—	515
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.0	85.0	< 0.005	< 0.005	—	85.3

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	1.88	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	480	480	0.01	0.02	1.13	486
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.11	1.59	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	455	455	0.01	0.02	0.03	460
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	122	122	< 0.005	< 0.005	0.13	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.2	20.2	< 0.005	< 0.005	0.02	20.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Storm Drain Install (2030) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.00	2.50	0.01	0.06	—	0.06	0.06	—	0.06	—	514	514	0.02	< 0.005	—	515
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.0	85.0	< 0.005	< 0.005	—	85.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.12	0.12	0.10	1.88	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	480	480	0.01	0.02	1.13	486
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.11	1.59	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	455	455	0.01	0.02	0.03	460
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.44	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	122	122	< 0.005	< 0.005	0.13	123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20.2	20.2	< 0.005	< 0.005	0.02	20.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Storm Drain Install (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.22	2.84	0.01	0.07	—	0.07	0.06	—	0.06	—	586	586	0.02	< 0.005	—	588
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.52	< 0.005	0.01	—	0.01	0.01	—	0.01	—	97.0	97.0	< 0.005	< 0.005	—	97.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.76	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	472	472	< 0.005	< 0.005	1.00	474
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.10	0.11	1.49	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	448	448	0.01	0.02	0.03	453
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.47	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	137	137	< 0.005	0.01	0.13	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.7	22.7	< 0.005	< 0.005	0.02	23.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Storm Drain Install (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.22	2.84	0.01	0.07	—	0.07	0.06	—	0.06	—	586	586	0.02	< 0.005	—	588
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.52	< 0.005	0.01	—	0.01	0.01	—	0.01	—	97.0	97.0	< 0.005	< 0.005	—	97.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.10	1.76	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	472	472	< 0.005	< 0.005	1.00	474
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.11	1.49	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	448	448	0.01	0.02	0.03	453
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.47	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	137	137	< 0.005	0.01	0.13	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.7	22.7	< 0.005	< 0.005	0.02	23.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.31	9.06	0.01	0.19	—	0.19	0.18	—	0.18	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.66	2.06	< 0.005	0.04	—	0.04	0.04	—	0.04	—	301	301	0.01	< 0.005	—	302

Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.8	49.8	< 0.005	< 0.005	—	49.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.11	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	298	298	< 0.005	< 0.005	0.63	299
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	65.3	65.3	< 0.005	< 0.005	0.06	66.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.31	9.06	0.01	0.19	—	0.19	0.18	—	0.18	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.66	2.06	< 0.005	0.04	—	0.04	0.04	—	0.04	—	301	301	0.01	< 0.005	—	302
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.8	49.8	< 0.005	< 0.005	—	49.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.11	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	298	298	< 0.005	< 0.005	0.63	299
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	65.3	65.3	< 0.005	< 0.005	0.06	66.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.53	4.20	9.43	0.01	0.13	—	0.13	0.12	—	0.12	—	1,452	1,452	0.06	0.01	—	1,457
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.77	1.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.95	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	231	231	< 0.005	0.01	0.60	234
Vendor	0.03	0.01	0.42	0.20	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	407	407	0.01	0.06	0.99	426
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.80	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	219	219	< 0.005	0.01	0.02	222

Vendor	0.03	0.01	0.44	0.21	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	407	407	0.01	0.06	0.03	425
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.58	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	153	153	< 0.005	0.01	0.18	155
Vendor	0.02	0.01	0.30	0.14	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	280	280	0.01	0.04	0.30	292
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.3	25.3	< 0.005	< 0.005	0.03	25.6
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	46.3	46.3	< 0.005	0.01	0.05	48.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.53	4.20	9.43	0.01	0.13	—	0.13	0.12	—	0.12	—	1,452	1,452	0.06	0.01	—	1,457
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.77	1.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.95	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	231	231	< 0.005	0.01	0.60	234
Vendor	0.03	0.01	0.42	0.20	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	407	407	0.01	0.06	0.99	426
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.80	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	219	219	< 0.005	0.01	0.02	222
Vendor	0.03	0.01	0.44	0.21	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	407	407	0.01	0.06	0.03	425
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.58	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	153	153	< 0.005	0.01	0.18	155
Vendor	0.02	0.01	0.30	0.14	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	280	280	0.01	0.04	0.30	292

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.3	25.3	< 0.005	< 0.005	0.03	25.6
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	46.3	46.3	< 0.005	0.01	0.05	48.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.64	6.12	0.01	0.08	—	0.08	0.07	—	0.07	—	943	943	0.04	0.01	—	946

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	1.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.89	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	227	227	< 0.005	0.01	0.53	230
Vendor	0.02	0.01	0.40	0.19	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	395	395	0.01	0.06	0.94	413
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.75	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.01	218
Vendor	0.02	0.01	0.42	0.20	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	395	395	0.01	0.06	0.02	412
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	97.5	97.5	< 0.005	< 0.005	0.10	98.8
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	176	176	0.01	0.02	0.18	184
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.1	16.1	< 0.005	< 0.005	0.02	16.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.2	29.2	< 0.005	< 0.005	0.03	30.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.64	6.12	0.01	0.08	—	0.08	0.07	—	0.07	—	943	943	0.04	0.01	—	946
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	1.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.89	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	227	227	< 0.005	0.01	0.53	230
Vendor	0.02	0.01	0.40	0.19	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	395	395	0.01	0.06	0.94	413
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.75	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	215	215	< 0.005	0.01	0.01	218
Vendor	0.02	0.01	0.42	0.20	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	395	395	0.01	0.06	0.02	412
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.35	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	97.5	97.5	< 0.005	< 0.005	0.10	98.8
Vendor	0.01	< 0.005	0.19	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	176	176	0.01	0.02	0.18	184
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.1	16.1	< 0.005	< 0.005	0.02	16.4
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.2	29.2	< 0.005	< 0.005	0.03	30.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/25/2028	11/16/2028	5.00	83.0	—
Site Preparation	Site Preparation	11/17/2028	1/12/2029	5.00	41.0	—
Storm Drain Install	Building Construction	8/19/2030	6/3/2031	5.00	207	—
Paving	Paving	6/4/2031	9/26/2031	5.00	83.0	—
Trenching	Trenching	1/15/2029	8/16/2030	5.00	415	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29

Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37

Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	14.0	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	64.0	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	18.5	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	10.2	HHDT,MHDT

Storm Drain Install	Hauling	0.00	20.0	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	14.0	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	14.0	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	64.0	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	18.5	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	10.2	HHDT,MHDT

Storm Drain Install	Hauling	0.00	20.0	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	18.5	LDA,LDT1,LDT2
Trenching	Vendor	14.0	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	20,500	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	6.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	6.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	0.00	690	0.05	0.01
2029	0.00	690	0.05	0.01
2030	0.00	690	0.05	0.01
2031	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit

Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8

Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100

Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6

Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—

Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.

Upper Storm Drain System Phase 4 Regional Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2031) - Unmitigated

3.2. Demolition (2031) - Mitigated

3.3. Site Preparation (2031) - Unmitigated

3.4. Site Preparation (2031) - Mitigated

3.5. Site Preparation (2032) - Unmitigated

3.6. Site Preparation (2032) - Mitigated

3.7. Storm Drain Install (2033) - Unmitigated

3.8. Storm Drain Install (2033) - Mitigated

3.9. Paving (2033) - Unmitigated

3.10. Paving (2033) - Mitigated

3.11. Paving (2034) - Unmitigated

3.12. Paving (2034) - Mitigated

3.13. Trenching (2032) - Unmitigated

3.14. Trenching (2032) - Mitigated

3.15. Trenching (2033) - Unmitigated

3.16. Trenching (2033) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Upper Storm Drain System Phase 4 Regional
Construction Start Date	9/26/2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	2.50	Acre	2.50	0.00	0.00	0.00	—	—

A-451

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.11	0.93	7.10	15.9	0.02	0.19	0.50	0.69	0.17	0.12	0.29	—	2,988	2,988	0.12	0.10	1.35	3,021
Mit.	1.11	0.93	7.10	15.9	0.02	0.19	0.50	0.69	0.17	0.12	0.29	—	2,988	2,988	0.12	0.10	1.35	3,021
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.11	0.93	7.28	15.7	0.02	0.19	0.60	0.69	0.17	0.16	0.29	—	2,975	2,975	0.12	0.30	0.09	3,009
Mit.	1.11	0.93	7.28	15.7	0.02	0.19	0.60	0.69	0.17	0.16	0.29	—	2,975	2,975	0.12	0.30	0.09	3,009
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74	0.62	4.81	9.49	0.02	0.12	0.31	0.43	0.11	0.07	0.19	—	1,875	1,875	0.07	0.07	0.44	1,899
Mit.	0.74	0.62	4.81	9.49	0.02	0.12	0.31	0.43	0.11	0.07	0.19	—	1,875	1,875	0.07	0.07	0.44	1,899
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.11	0.88	1.73	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	310	310	0.01	0.01	0.07	314
Mit.	0.14	0.11	0.88	1.73	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	310	310	0.01	0.01	0.07	314
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.03	0.85	7.10	15.9	0.02	0.19	0.41	0.60	0.17	0.10	0.27	—	2,988	2,988	0.12	0.10	1.35	3,021
2032	0.90	0.75	5.93	14.6	0.02	0.16	0.36	0.51	0.14	0.09	0.23	—	2,703	2,703	0.10	0.07	1.26	2,728
2033	1.11	0.93	7.04	14.6	0.02	0.19	0.50	0.69	0.17	0.12	0.29	—	2,688	2,688	0.10	0.07	1.16	2,713

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.03	0.85	7.14	15.7	0.02	0.19	0.60	0.62	0.17	0.16	0.27	—	2,975	2,975	0.12	0.30	0.09	3,009
2032	0.90	0.75	5.96	14.5	0.02	0.16	0.60	0.62	0.14	0.16	0.23	—	2,692	2,692	0.10	0.30	0.08	2,716
2033	1.11	0.93	7.28	14.5	0.02	0.19	0.50	0.69	0.17	0.12	0.29	—	2,677	2,677	0.10	0.07	0.03	2,701
2034	1.02	0.86	7.24	9.78	0.01	0.16	0.31	0.48	0.15	0.07	0.22	—	1,594	1,594	0.06	0.01	0.01	1,599
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.18	0.14	1.25	2.69	< 0.005	0.03	0.08	0.11	0.03	0.02	0.05	—	536	536	0.02	0.02	0.12	544
2032	0.59	0.49	4.01	9.49	0.02	0.10	0.27	0.37	0.10	0.07	0.16	—	1,875	1,875	0.07	0.07	0.44	1,899
2033	0.74	0.62	4.81	8.34	0.01	0.12	0.31	0.43	0.11	0.07	0.19	—	1,689	1,689	0.06	0.02	0.26	1,698
2034	0.08	0.07	0.55	0.75	< 0.005	0.01	0.02	0.04	0.01	0.01	0.02	—	122	122	< 0.005	< 0.005	0.01	122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.03	0.03	0.23	0.49	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	88.8	88.8	< 0.005	< 0.005	0.02	90.0
2032	0.11	0.09	0.73	1.73	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	310	310	0.01	0.01	0.07	314
2033	0.14	0.11	0.88	1.52	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	280	280	0.01	< 0.005	0.04	281
2034	0.01	0.01	0.10	0.14	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	< 0.005	20.3

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	1.03	0.85	7.10	15.9	0.02	0.19	0.41	0.60	0.17	0.10	0.27	—	2,988	2,988	0.12	0.10	1.35	3,021
2032	0.90	0.75	5.93	14.6	0.02	0.16	0.36	0.51	0.14	0.09	0.23	—	2,703	2,703	0.10	0.07	1.26	2,728
2033	1.11	0.93	7.04	14.6	0.02	0.19	0.50	0.69	0.17	0.12	0.29	—	2,688	2,688	0.10	0.07	1.16	2,713
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2031	1.03	0.85	7.14	15.7	0.02	0.19	0.60	0.62	0.17	0.16	0.27	—	2,975	2,975	0.12	0.30	0.09	3,009
2032	0.90	0.75	5.96	14.5	0.02	0.16	0.60	0.62	0.14	0.16	0.23	—	2,692	2,692	0.10	0.30	0.08	2,716
2033	1.11	0.93	7.28	14.5	0.02	0.19	0.50	0.69	0.17	0.12	0.29	—	2,677	2,677	0.10	0.07	0.03	2,701
2034	1.02	0.86	7.24	9.78	0.01	0.16	0.31	0.48	0.15	0.07	0.22	—	1,594	1,594	0.06	0.01	0.01	1,599
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.18	0.14	1.25	2.69	< 0.005	0.03	0.08	0.11	0.03	0.02	0.05	—	536	536	0.02	0.02	0.12	544
2032	0.59	0.49	4.01	9.49	0.02	0.10	0.27	0.37	0.10	0.07	0.16	—	1,875	1,875	0.07	0.07	0.44	1,899
2033	0.74	0.62	4.81	8.34	0.01	0.12	0.31	0.43	0.11	0.07	0.19	—	1,689	1,689	0.06	0.02	0.26	1,698
2034	0.08	0.07	0.55	0.75	< 0.005	0.01	0.02	0.04	0.01	0.01	0.02	—	122	122	< 0.005	< 0.005	0.01	122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.03	0.03	0.23	0.49	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01	—	88.8	88.8	< 0.005	< 0.005	0.02	90.0
2032	0.11	0.09	0.73	1.73	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03	—	310	310	0.01	0.01	0.07	314
2033	0.14	0.11	0.88	1.52	< 0.005	0.02	0.06	0.08	0.02	0.01	0.03	—	280	280	0.01	< 0.005	0.04	281
2034	0.01	0.01	0.10	0.14	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	< 0.005	20.3

3. Construction Emissions Details

3.1. Demolition (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.10	2.50	< 0.005	0.03	—	0.03	0.03	—	0.03	—	383	383	0.02	< 0.005	—	384
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	63.4	63.4	< 0.005	< 0.005	—	63.6
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.05	0.05	0.93	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	249	249	< 0.005	< 0.005	0.53	250
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.55	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	484	484	0.02	0.08	0.83	508
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.79	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	236	236	< 0.005	0.01	0.01	239
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.58	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	484	484	0.02	0.08	0.02	507
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.6	40.6	< 0.005	< 0.005	0.04	41.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.06	86.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.73	6.73	< 0.005	< 0.005	0.01	6.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.3

3.2. Demolition (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263

Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.10	2.50	< 0.005	0.03	—	0.03	0.03	—	0.03	—	383	383	0.02	< 0.005	—	384
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	63.4	63.4	< 0.005	< 0.005	—	63.6
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.93	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	249	249	< 0.005	< 0.005	0.53	250
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.55	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	484	484	0.02	0.08	0.83	508
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.79	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	236	236	< 0.005	0.01	0.01	239
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.58	0.23	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	484	484	0.02	0.08	0.02	507
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	40.6	40.6	< 0.005	< 0.005	0.04	41.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	82.2	82.2	< 0.005	0.01	0.06	86.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.73	6.73	< 0.005	< 0.005	0.01	6.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	0.01	14.3

3.3. Site Preparation (2031) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	0.03	2.30	0.92	0.01	0.03	0.59	0.62	0.03	0.16	0.19	—	1,937	1,937	0.09	0.30	0.09	2,030
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.3	30.3	< 0.005	< 0.005	0.02	31.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.26

3.4. Site Preparation (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	0.03	2.30	0.92	0.01	0.03	0.59	0.62	0.03	0.16	0.19	—	1,937	1,937	0.09	0.30	0.09	2,030
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.3	30.3	< 0.005	< 0.005	0.02	31.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.02	5.02	< 0.005	< 0.005	< 0.005	5.26

3.5. Site Preparation (2032) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.12	0.03	2.23	0.89	0.01	0.03	0.59	0.62	0.03	0.16	0.19	—	1,887	1,887	0.09	0.30	0.08	1,980
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	129	129	0.01	0.02	0.09	136
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.4	21.4	< 0.005	< 0.005	0.01	22.5

3.6. Site Preparation (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	0.03	2.23	0.89	0.01	0.03	0.59	0.62	0.03	0.16	0.19	—	1,887	1,887	0.09	0.30	0.08	1,980
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	129	129	0.01	0.02	0.09	136
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.4	21.4	< 0.005	< 0.005	0.01	22.5

3.7. Storm Drain Install (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	A-465	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	2.94	3.94	0.01	0.08	—	0.08	0.07	—	0.07	—	820	820	0.03	0.01	—	823
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.54	0.72	< 0.005	0.01	—	0.01	0.01	—	0.01	—	136	136	0.01	< 0.005	—	136
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.08	1.57	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	460	460	< 0.005	< 0.005	0.78	461
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.08	1.33	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	436	436	< 0.005	< 0.005	0.02	437
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.59	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	187	187	< 0.005	< 0.005	0.14	187
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	30.9	30.9	< 0.005	< 0.005	0.02	31.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Storm Drain Install (2033) - Mitigated

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

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

Off-Road Equipm	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	2.94	3.94	0.01	0.08	—	0.08	0.07	—	0.07	—	820	820	0.03	0.01	—	823
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.54	0.72	< 0.005	0.01	—	0.01	0.01	—	0.01	—	136	136	0.01	< 0.005	—	136
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.08	1.57	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	460	460	< 0.005	< 0.005	0.78	461
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.08	1.33	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	436	436	< 0.005	< 0.005	0.02	437
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.59	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	187	187	< 0.005	< 0.005	0.14	187
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	30.9	30.9	< 0.005	< 0.005	0.02	31.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.82	7.23	9.00	0.01	0.17	—	0.17	0.16	—	0.16	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.66	0.83	< 0.005	0.02	—	0.02	0.01	—	0.01	—	122	122	< 0.005	< 0.005	—	122
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.84	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	275	275	< 0.005	< 0.005	0.01	276
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.02	25.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.26	4.26	< 0.005	< 0.005	< 0.005	4.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.82	7.23	9.00	0.01	0.17	—	0.17	0.16	—	0.16	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.66	0.83	< 0.005	0.02	—	0.02	0.01	—	0.01	—	122	122	< 0.005	< 0.005	—	122
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.02	0.01	0.12	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.84	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	275	275	< 0.005	< 0.005	0.01	276
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.02	25.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.26	4.26	< 0.005	< 0.005	< 0.005	4.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2034) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.80	7.19	8.98	0.01	0.16	—	0.16	0.15	—	0.15	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.55	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	101	101	< 0.005	< 0.005	—	101
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.7	16.7	< 0.005	< 0.005	—	16.8
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.79	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	272	272	< 0.005	< 0.005	0.01	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.01	21.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.80	7.19	8.98	0.01	0.16	—	0.16	0.15	—	0.15	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.55	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	101	101	< 0.005	< 0.005	—	101
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.7	16.7	< 0.005	< 0.005	—	16.8
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.79	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	272	272	< 0.005	< 0.005	0.01	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.01	21.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	3.58	8.86	0.01	0.10	—	0.10	0.09	—	0.09	—	1,369	1,369	0.06	0.01	—	1,374

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.65	1.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	227	227	0.01	< 0.005	—	227
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.78	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	221	221	< 0.005	< 0.005	0.42	222
Vendor	0.02	0.01	0.37	0.18	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	369	369	0.01	0.05	0.84	386
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.66	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	209	209	< 0.005	< 0.005	0.01	210
Vendor	0.02	0.01	0.38	0.18	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	369	369	0.01	0.05	0.02	385
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	138	138	< 0.005	0.01	0.12	139
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.23	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.02	23.1
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.6	39.6	< 0.005	0.01	0.04	41.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	3.58	8.86	0.01	0.10	—	0.10	0.09	—	0.09	—	1,369	1,369	0.06	0.01	—	1,374
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.65	1.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	227	227	0.01	< 0.005	—	227

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.78	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	221	221	< 0.005	< 0.005	0.42	222
Vendor	0.02	0.01	0.37	0.18	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	369	369	0.01	0.05	0.84	386
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.66	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	209	209	< 0.005	< 0.005	0.01	210
Vendor	0.02	0.01	0.38	0.18	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	369	369	0.01	0.05	0.02	385
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	138	138	< 0.005	0.01	0.12	139
Vendor	0.02	0.01	0.25	0.12	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	239	239	0.01	0.03	0.23	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	22.8	22.8	< 0.005	< 0.005	0.02	23.1
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.6	39.6	< 0.005	0.01	0.04	41.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2033) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.08	2.73	< 0.005	0.03	—	0.03	0.03	—	0.03	—	422	422	0.02	< 0.005	—	423
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.50	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	69.8	69.8	< 0.005	< 0.005	—	70.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.04	0.04	0.74	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	218	218	< 0.005	< 0.005	0.37	219
Vendor	0.02	0.01	0.35	0.17	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	357	357	0.01	0.05	0.80	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.63	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	207	207	< 0.005	< 0.005	0.01	207
Vendor	0.02	0.01	0.37	0.18	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	357	357	0.01	0.05	0.02	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.8	41.8	< 0.005	< 0.005	0.03	41.9
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	71.2	71.2	< 0.005	0.01	0.07	74.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.93	6.93	< 0.005	< 0.005	0.01	6.95
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	12.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.08	2.73	< 0.005	0.03	—	0.03	0.03	—	0.03	—	422	422	0.02	< 0.005	—	423
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.50	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	69.8	69.8	< 0.005	< 0.005	—	70.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.74	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	218	218	< 0.005	< 0.005	0.37	219
Vendor	0.02	0.01	0.35	0.17	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	357	357	0.01	0.05	0.80	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.04	0.04	0.63	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	207	207	< 0.005	< 0.005	0.01	207
Vendor	0.02	0.01	0.37	0.18	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	357	357	0.01	0.05	0.02	373
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.8	41.8	< 0.005	< 0.005	0.03	41.9
Vendor	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	71.2	71.2	< 0.005	0.01	0.07	74.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.93	6.93	< 0.005	< 0.005	0.01	6.95
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	12.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	9/29/2031	12/23/2031	5.00	62.0	—
Site Preparation	Site Preparation	12/24/2031	2/4/2032	5.00	31.0	—
Storm Drain Install	Building Construction	4/13/2033	11/14/2033	5.00	154	—
Paving	Paving	11/15/2033	2/8/2034	5.00	62.0	—
Trenching	Trenching	2/5/2032	4/12/2033	5.00	309	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

Trenching	Tractors/Loaders/Back	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	8.00	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	32.0	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	18.5	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	10.2	HHDT,MHDT
Storm Drain Install	Hauling	0.00	20.0	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	18.5	LDA,LDT1,LDT2

Trenching	Vendor	14.0	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	8.00	20.0	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	32.0	20.0	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	18.5	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	10.2	HHDT,MHDT
Storm Drain Install	Hauling	0.00	20.0	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	18.5	LDA,LDT1,LDT2

Trenching	Vendor	14.0	10.2	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	7,600	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	2.50

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	2.50	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	0.00	690	0.05	0.01
2032	0.00	690	0.05	0.01
2033	0.00	690	0.05	0.01
2034	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9

Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456

Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5

Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.

Upper Storm Drain System Phase 3 LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.2. Demolition (2026) - Mitigated

3.3. Site Preparation (2026) - Unmitigated

3.4. Site Preparation (2026) - Mitigated

3.5. Storm Drain Install (2027) - Unmitigated

3.6. Storm Drain Install (2027) - Mitigated

3.7. Paving (2027) - Unmitigated

3.8. Paving (2027) - Mitigated

3.9. Trenching (2026) - Unmitigated

3.10. Trenching (2026) - Mitigated

3.11. Trenching (2027) - Unmitigated

3.12. Trenching (2027) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Upper Storm Drain System Phase 3 LST
Construction Start Date	7/8/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	3.50	Acre	3.50	0.00	0.00	0.00	—	—

A-505

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.27	1.08	8.40	14.9	0.02	0.30	0.01	0.31	0.28	< 0.005	0.28	—	2,275	2,275	0.10	0.02	0.06	2,284
Mit.	1.27	1.08	8.40	14.9	0.02	0.30	0.01	0.31	0.28	< 0.005	0.28	—	2,275	2,275	0.10	0.02	0.06	2,284
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.25	1.05	7.73	13.9	0.02	0.28	0.01	0.29	0.26	< 0.005	0.26	—	2,143	2,143	0.09	0.02	< 0.005	2,152
Mit.	1.25	1.05	7.73	13.9	0.02	0.28	0.01	0.29	0.26	< 0.005	0.26	—	2,143	2,143	0.09	0.02	< 0.005	2,152
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.64	0.54	4.22	6.33	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,063	1,063	0.05	0.01	0.01	1,067
Mit.	0.64	0.54	4.22	6.33	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,063	1,063	0.05	0.01	0.01	1,067
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

A-506

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	0.10	0.77	1.16	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	176	176	0.01	< 0.005	< 0.005	177
Mit.	0.12	0.10	0.77	1.16	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	176	176	0.01	< 0.005	< 0.005	177
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.20	1.01	8.13	14.9	0.02	0.30	0.01	0.31	0.28	< 0.005	0.28	—	2,275	2,275	0.10	0.02	0.06	2,284
2027	1.27	1.08	8.40	13.9	0.02	0.28	0.01	0.29	0.26	< 0.005	0.26	—	2,143	2,143	0.09	0.02	0.04	2,152
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	1.08	0.91	7.37	13.9	0.02	0.28	0.01	0.29	0.26	< 0.005	0.26	—	2,143	2,143	0.09	0.02	< 0.005	2,152
2027	1.25	1.05	7.73	13.9	0.02	0.26	0.01	0.26	0.24	< 0.005	0.24	—	2,143	2,143	0.09	0.02	< 0.005	2,152
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.34	0.29	2.31	4.30	0.01	0.09	< 0.005	0.09	0.08	< 0.005	0.08	—	662	662	0.03	0.01	0.01	665
2027	0.64	0.54	4.22	6.33	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,063	1,063	0.05	0.01	0.01	1,067
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.06	0.05	0.42	0.78	< 0.005	0.02	< 0.005	0.02	0.01	< 0.005	0.01	—	110	110	< 0.005	< 0.005	< 0.005	110
2027	0.12	0.10	0.77	1.16	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	176	176	0.01	< 0.005	< 0.005	177

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.20	1.01	8.13	14.9	0.02	0.30	0.01	0.31	0.28	< 0.005	0.28	—	2,275	2,275	0.10	0.02	0.06	2,284
2027	1.27	1.08	8.40	13.9	0.02	0.28	0.01	0.29	0.26	< 0.005	0.26	—	2,143	2,143	0.09	0.02	0.04	2,152
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.08	0.91	7.37	13.9	0.02	0.28	0.01	0.29	0.26	< 0.005	0.26	—	2,143	2,143	0.09	0.02	< 0.005	2,152
2027	1.25	1.05	7.73	13.9	0.02	0.26	0.01	0.26	0.24	< 0.005	0.24	—	2,143	2,143	0.09	0.02	< 0.005	2,152
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.34	0.29	2.31	4.30	0.01	0.09	< 0.005	0.09	0.08	< 0.005	0.08	—	662	662	0.03	0.01	0.01	665
2027	0.64	0.54	4.22	6.33	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,063	1,063	0.05	0.01	0.01	1,067
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.06	0.05	0.42	0.78	< 0.005	0.02	< 0.005	0.02	0.01	< 0.005	0.01	—	110	110	< 0.005	< 0.005	< 0.005	110
2027	0.12	0.10	0.77	1.16	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	176	176	0.01	< 0.005	< 0.005	177

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	8.03	14.6	0.02	0.30	—	0.30	0.28	—	0.28	—	2,253	2,253	0.09	0.02	—	2,261
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.73	1.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	204	204	0.01	< 0.005	—	204
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.13	0.24	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.00	7.00	< 0.005	< 0.005	0.01	7.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.01	15.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.2. Demolition (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A-510	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	0.95	8.03	14.6	0.02	0.30	—	0.30	0.28	—	0.28	—	2,253	2,253	0.09	0.02	—	2,261
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.73	1.32	< 0.005	0.03	—	0.03	0.03	—	0.03	—	204	204	0.01	< 0.005	—	204
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.24	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	33.7	33.7	< 0.005	< 0.005	—	33.8
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.06	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.00	7.00	< 0.005	< 0.005	0.01	7.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.01	15.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24

3.3. Site Preparation (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.02	0.44	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	74.3	74.3	0.02	0.01	0.06	78.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.27	3.27	< 0.005	< 0.005	< 0.005	3.46
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.57

3.4. Site Preparation (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.02	0.44	0.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	74.3	74.3	0.02	0.01	0.06	78.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.27	3.27	< 0.005	< 0.005	< 0.005	3.46
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.57

3.5. Storm Drain Install (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	0.97	8.38	9.56	0.02	0.28	—	0.28	0.26	—	0.26	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.88	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	437	437	0.02	< 0.005	—	438
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.34	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.3	72.3	< 0.005	< 0.005	—	72.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.02	0.28	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.0	13.0	0.01	< 0.005	0.02	14.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.89	2.89	< 0.005	< 0.005	< 0.005	3.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Storm Drain Install (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	0.97	8.38	9.56	0.02	0.28	—	0.28	0.26	—	0.26	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.88	2.15	< 0.005	0.06	—	0.06	0.06	—	0.06	—	437	437	0.02	< 0.005	—	438
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.34	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	72.3	72.3	< 0.005	< 0.005	—	72.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.10	0.02	0.28	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.0	13.0	0.01	< 0.005	0.02	14.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.89	2.89	< 0.005	< 0.005	< 0.005	3.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.70	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	119	119	< 0.005	< 0.005	—	120
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.07	8.07	< 0.005	< 0.005	< 0.005	8.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Paving (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.98	7.72	9.18	0.01	0.26	—	0.26	0.24	—	0.24	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.70	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	—	119	119	< 0.005	< 0.005	—	120
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.8	19.8	< 0.005	< 0.005	—	19.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.02	0.18	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.86
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.02	0.21	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	8.07	8.07	< 0.005	< 0.005	< 0.005	8.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Trenching (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.22	0.18	1.52	2.88	< 0.005	0.06	—	0.06	0.05	—	0.05	—	446	446	0.02	< 0.005	—	448
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.04	0.03	0.28	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.9	73.9	< 0.005	< 0.005	—	74.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.30	6.30	< 0.005	< 0.005	0.01	6.77
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.0	25.0	0.01	< 0.005	0.03	26.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.17	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	< 0.005	6.65
Vendor	0.01	0.01	0.15	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	0.01	< 0.005	< 0.005	26.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.31	1.31	< 0.005	< 0.005	< 0.005	1.41
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.29	5.29	< 0.005	< 0.005	< 0.005	5.58
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.92
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Trenching (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.86	7.21	13.6	0.02	0.28	—	0.28	0.26	—	0.26	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.22	0.18	1.52	2.88	< 0.005	0.06	—	0.06	0.05	—	0.05	—	446	446	0.02	< 0.005	—	448
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	73.9	73.9	< 0.005	< 0.005	—	74.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.30	6.30	< 0.005	< 0.005	0.01	6.77
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.0	25.0	0.01	< 0.005	0.03	26.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.17	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	< 0.005	6.65
Vendor	0.01	0.01	0.15	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	25.2	25.2	0.01	< 0.005	< 0.005	26.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.31	1.31	< 0.005	< 0.005	< 0.005	1.41
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.29	5.29	< 0.005	< 0.005	< 0.005	5.58
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.92

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Trenching (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.59	3.21	< 0.005	0.06	—	0.06	0.05	—	0.05	—	496	496	0.02	< 0.005	—	498
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.04	0.04	0.29	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.1	82.1	< 0.005	< 0.005	—	82.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	0.01	6.64
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	24.6	24.6	0.01	< 0.005	0.03	25.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.06	6.06	< 0.005	< 0.005	< 0.005	6.52
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	24.8	24.8	0.01	< 0.005	< 0.005	26.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.54
Vendor	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.79	5.79	< 0.005	< 0.005	< 0.005	6.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.26
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.96	0.96	< 0.005	< 0.005	< 0.005	1.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Trenching (2027) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.82	6.78	13.7	0.02	0.24	—	0.24	0.23	—	0.23	—	2,112	2,112	0.09	0.02	—	2,119
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.59	3.21	< 0.005	0.06	—	0.06	0.05	—	0.05	—	496	496	0.02	< 0.005	—	498
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.29	0.59	< 0.005	0.01	—	0.01	0.01	—	0.01	—	82.1	82.1	< 0.005	< 0.005	—	82.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.18	6.18	< 0.005	< 0.005	0.01	6.64
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	24.6	24.6	0.01	< 0.005	0.03	25.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.16	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.06	6.06	< 0.005	< 0.005	< 0.005	6.52
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	24.8	24.8	0.01	< 0.005	< 0.005	26.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.54
Vendor	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.79	5.79	< 0.005	< 0.005	< 0.005	6.10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.26
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.96	0.96	< 0.005	< 0.005	< 0.005	1.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/8/2026	8/21/2026	5.00	33.0	—
Site Preparation	Site Preparation	8/24/2026	9/14/2026	5.00	16.0	—
Storm Drain Install	Building Construction	5/3/2027	8/24/2027	5.00	82.0	—
Paving	Paving	8/25/2027	10/8/2027	5.00	33.0	—
Trenching	Trenching	9/15/2026	4/30/2027	5.00	164	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	0.00	0.25	HHDT,MHDT
Demolition	Hauling	6.00	0.25	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	0.25	HHDT,MHDT
Site Preparation	Hauling	29.7	0.25	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	0.25	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	0.25	HHDT,MHDT
Storm Drain Install	Hauling	0.00	0.25	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT

Paving	—	—	—	—
Paving	Worker	24.0	0.25	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	0.25	LDA,LDT1,LDT2
Trenching	Vendor	14.0	0.25	HHDT,MHDT
Trenching	Hauling	0.00	0.25	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	0.00	0.25	HHDT,MHDT
Demolition	Hauling	6.00	0.25	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	0.25	HHDT,MHDT
Site Preparation	Hauling	29.7	0.25	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	0.25	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	0.25	HHDT,MHDT
Storm Drain Install	Hauling	0.00	0.25	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT

Paving	—	—	—	—
Paving	Worker	24.0	0.25	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	0.25	LDA,LDT1,LDT2
Trenching	Vendor	14.0	0.25	HHDT,MHDT
Trenching	Hauling	0.00	0.25	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—

Site Preparation	0.00	3,800	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	3.50

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	3.50	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	690	0.05	0.01
2027	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2

Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8

Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903

Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9

Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information. Trip length reduced to 0.25 miles to represent on-site emissions.

Upper Storm Drain System Phase 2 LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

3.2. Demolition (2028) - Mitigated

3.3. Site Preparation (2028) - Unmitigated

3.4. Site Preparation (2028) - Mitigated

3.5. Site Preparation (2029) - Unmitigated

3.6. Site Preparation (2029) - Mitigated

3.7. Storm Drain Install (2030) - Unmitigated

3.8. Storm Drain Install (2030) - Mitigated

3.9. Storm Drain Install (2031) - Unmitigated

3.10. Storm Drain Install (2031) - Mitigated

3.11. Paving (2031) - Unmitigated

3.12. Paving (2031) - Mitigated

3.13. Trenching (2029) - Unmitigated

3.14. Trenching (2029) - Mitigated

3.15. Trenching (2030) - Unmitigated

3.16. Trenching (2030) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Upper Storm Drain System Phase 2 LST
Construction Start Date	7/25/2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	6.00	Acre	6.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.16	0.98	7.58	15.1	0.02	0.23	0.01	0.24	0.22	< 0.005	0.22	—	2,299	2,299	0.11	0.03	0.04	2,309
Mit.	1.16	0.98	7.58	15.1	0.02	0.23	0.01	0.24	0.22	< 0.005	0.22	—	2,299	2,299	0.11	0.03	0.04	2,309
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.16	0.98	7.58	15.1	0.02	0.23	0.02	0.24	0.22	0.01	0.22	—	2,299	2,299	0.11	0.03	< 0.005	2,309
Mit.	1.16	0.98	7.58	15.1	0.02	0.23	0.02	0.24	0.22	0.01	0.22	—	2,299	2,299	0.11	0.03	< 0.005	2,309
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.72	0.61	4.71	9.61	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,476	1,476	0.07	0.02	0.01	1,482
Mit.	0.72	0.61	4.71	9.61	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,476	1,476	0.07	0.02	0.01	1,482
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.11	0.86	1.75	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	244	244	0.01	< 0.005	< 0.005	245
Mit.	0.13	0.11	0.86	1.75	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	244	244	0.01	< 0.005	< 0.005	245
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.14	0.96	7.44	15.1	0.02	0.23	0.01	0.24	0.22	< 0.005	0.22	—	2,299	2,299	0.11	0.03	0.04	2,309
2029	0.97	0.82	6.25	13.9	0.02	0.19	0.01	0.20	0.18	< 0.005	0.18	—	2,143	2,143	0.09	0.02	0.03	2,152
2030	1.16	0.98	7.58	13.9	0.02	0.23	0.01	0.24	0.21	< 0.005	0.22	—	2,143	2,143	0.09	0.02	0.03	2,151
2031	1.14	0.96	7.38	9.64	0.02	0.22	0.01	0.23	0.20	< 0.005	0.21	—	1,956	1,956	0.08	0.02	0.01	1,964

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.14	0.96	7.45	15.1	0.02	0.23	0.02	0.24	0.22	0.01	0.22	—	2,299	2,299	0.11	0.03	< 0.005	2,309
2029	0.97	0.82	6.26	14.0	0.02	0.19	0.02	0.20	0.18	0.01	0.18	—	2,143	2,143	0.09	0.02	< 0.005	2,152
2030	1.16	0.98	7.58	13.9	0.02	0.23	0.01	0.24	0.21	< 0.005	0.22	—	2,143	2,143	0.09	0.02	< 0.005	2,152
2031	1.13	0.96	7.38	9.68	0.02	0.22	0.01	0.23	0.20	< 0.005	0.21	—	1,956	1,956	0.08	0.02	< 0.005	1,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.27	0.22	1.78	3.50	< 0.005	0.05	< 0.005	0.06	0.05	< 0.005	0.05	—	536	536	0.03	0.01	0.01	540
2029	0.67	0.56	4.32	9.61	0.01	0.13	< 0.005	0.14	0.12	< 0.005	0.12	—	1,476	1,476	0.07	0.02	0.01	1,482
2030	0.72	0.61	4.71	8.79	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,473	1,473	0.06	0.01	0.01	1,479
2031	0.59	0.50	3.89	5.01	0.01	0.11	< 0.005	0.11	0.10	< 0.005	0.10	—	892	892	0.04	0.01	< 0.005	895
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.05	0.04	0.32	0.64	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	88.8	88.8	< 0.005	< 0.005	< 0.005	89.3
2029	0.12	0.10	0.79	1.75	< 0.005	0.02	< 0.005	0.03	0.02	< 0.005	0.02	—	244	244	0.01	< 0.005	< 0.005	245
2030	0.13	0.11	0.86	1.60	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	244	244	0.01	< 0.005	< 0.005	245
2031	0.11	0.09	0.71	0.91	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	148	148	0.01	< 0.005	< 0.005	148

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.14	0.96	7.44	15.1	0.02	0.23	0.01	0.24	0.22	< 0.005	0.22	—	2,299	2,299	0.11	0.03	0.04	2,309
2029	0.97	0.82	6.25	13.9	0.02	0.19	0.01	0.20	0.18	< 0.005	0.18	—	2,143	2,143	0.09	0.02	0.03	2,152
2030	1.16	0.98	7.58	13.9	0.02	0.23	0.01	0.24	0.21	< 0.005	0.22	—	2,143	2,143	0.09	0.02	0.03	2,151
2031	1.14	0.96	7.38	9.64	0.02	0.22	0.01	0.23	0.20	< 0.005	0.21	—	1,956	1,956	0.08	0.02	0.01	1,964

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	1.14	0.96	7.45	15.1	0.02	0.23	0.02	0.24	0.22	0.01	0.22	—	2,299	2,299	0.11	0.03	< 0.005	2,309
2029	0.97	0.82	6.26	14.0	0.02	0.19	0.02	0.20	0.18	0.01	0.18	—	2,143	2,143	0.09	0.02	< 0.005	2,152
2030	1.16	0.98	7.58	13.9	0.02	0.23	0.01	0.24	0.21	< 0.005	0.22	—	2,143	2,143	0.09	0.02	< 0.005	2,152
2031	1.13	0.96	7.38	9.68	0.02	0.22	0.01	0.23	0.20	< 0.005	0.21	—	1,956	1,956	0.08	0.02	< 0.005	1,964
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.27	0.22	1.78	3.50	< 0.005	0.05	< 0.005	0.06	0.05	< 0.005	0.05	—	536	536	0.03	0.01	0.01	540
2029	0.67	0.56	4.32	9.61	0.01	0.13	< 0.005	0.14	0.12	< 0.005	0.12	—	1,476	1,476	0.07	0.02	0.01	1,482
2030	0.72	0.61	4.71	8.79	0.01	0.14	< 0.005	0.15	0.13	< 0.005	0.13	—	1,473	1,473	0.06	0.01	0.01	1,479
2031	0.59	0.50	3.89	5.01	0.01	0.11	< 0.005	0.11	0.10	< 0.005	0.10	—	892	892	0.04	0.01	< 0.005	895
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.05	0.04	0.32	0.64	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	88.8	88.8	< 0.005	< 0.005	< 0.005	89.3
2029	0.12	0.10	0.79	1.75	< 0.005	0.02	< 0.005	0.03	0.02	< 0.005	0.02	—	244	244	0.01	< 0.005	< 0.005	245
2030	0.13	0.11	0.86	1.60	< 0.005	0.03	< 0.005	0.03	0.02	< 0.005	0.02	—	244	244	0.01	< 0.005	< 0.005	245
2031	0.11	0.09	0.71	0.91	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	148	148	0.01	< 0.005	< 0.005	148

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

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

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

Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.64	3.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	513	513	0.02	< 0.005	—	514
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.61	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.9	84.9	< 0.005	< 0.005	—	85.2
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.20	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	33.9	33.9	0.01	0.01	0.02	35.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.24	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	< 0.005	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.21	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	34.3	34.3	0.01	0.01	< 0.005	36.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.75	7.75	< 0.005	< 0.005	< 0.005	8.18
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.35

3.2. Demolition (2028) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.88	7.22	14.7	0.02	0.23	—	0.23	0.22	—	0.22	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.64	3.34	< 0.005	0.05	—	0.05	0.05	—	0.05	—	513	513	0.02	< 0.005	—	514
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.61	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.9	84.9	< 0.005	< 0.005	—	85.2

Demoliti	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.21	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.20	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	33.9	33.9	0.01	0.01	0.02	35.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.24	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.90	9.90	< 0.005	< 0.005	< 0.005	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.21	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	34.3	34.3	0.01	0.01	< 0.005	36.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.75	7.75	< 0.005	< 0.005	< 0.005	8.18
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.35

3.3. Site Preparation (2028) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.08	0.04	0.97	0.72	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	157	157	0.04	0.03	< 0.005	165
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	14.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.27	2.27	< 0.005	< 0.005	< 0.005	2.40

3.4. Site Preparation (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	0.04	0.97	0.72	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	157	157	0.04	0.03	< 0.005	165
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.08	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	14.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.27	2.27	< 0.005	< 0.005	< 0.005	2.40

3.5. Site Preparation (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	A-563	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	0.04	0.95	0.72	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	154	154	0.04	0.02	< 0.005	163
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

3.6. Site Preparation (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.08	0.04	0.95	0.72	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	154	154	0.04	0.02	< 0.005	163
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.63

3.7. Storm Drain Install (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.00	2.50	0.01	0.06	—	0.06	0.06	—	0.06	—	514	514	0.02	< 0.005	—	515
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.0	85.0	< 0.005	< 0.005	—	85.3

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	0.01	< 0.005	0.02	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.27	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	0.01	< 0.005	< 0.005	13.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.21	3.21	< 0.005	< 0.005	< 0.005	3.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Storm Drain Install (2030) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.89	7.56	9.46	0.02	0.23	—	0.23	0.21	—	0.21	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.00	2.50	0.01	0.06	—	0.06	0.06	—	0.06	—	514	514	0.02	< 0.005	—	515
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.36	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85.0	85.0	< 0.005	< 0.005	—	85.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.09	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.3	12.3	0.01	< 0.005	0.02	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.02	0.27	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	0.01	< 0.005	< 0.005	13.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.21	3.21	< 0.005	< 0.005	< 0.005	3.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Storm Drain Install (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.22	2.84	0.01	0.07	—	0.07	0.06	—	0.06	—	586	586	0.02	< 0.005	—	588
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.52	< 0.005	0.01	—	0.01	0.01	—	0.01	—	97.0	97.0	< 0.005	< 0.005	—	97.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.02	0.22	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	13.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.08	0.02	0.25	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	0.01	< 0.005	< 0.005	12.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Storm Drain Install (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.05	0.87	7.36	9.42	0.02	0.22	—	0.22	0.20	—	0.20	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.22	2.84	0.01	0.07	—	0.07	0.06	—	0.06	—	586	586	0.02	< 0.005	—	588
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.52	< 0.005	0.01	—	0.01	0.01	—	0.01	—	97.0	97.0	< 0.005	< 0.005	—	97.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.02	0.22	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	13.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.25	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	0.01	< 0.005	< 0.005	12.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.60	3.60	< 0.005	< 0.005	< 0.005	3.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.31	9.06	0.01	0.19	—	0.19	0.18	—	0.18	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.66	2.06	< 0.005	0.04	—	0.04	0.04	—	0.04	—	301	301	0.01	< 0.005	—	302

Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.8	49.8	< 0.005	< 0.005	—	49.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.66	7.66	< 0.005	< 0.005	0.01	8.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.31	9.06	0.01	0.19	—	0.19	0.18	—	0.18	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.66	2.06	< 0.005	0.04	—	0.04	0.04	—	0.04	—	301	301	0.01	< 0.005	—	302
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.8	49.8	< 0.005	< 0.005	—	49.9
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.66	7.66	< 0.005	< 0.005	0.01	8.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.72	1.72	< 0.005	< 0.005	< 0.005	1.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.28	0.28	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.53	4.20	9.43	0.01	0.13	—	0.13	0.12	—	0.12	—	1,452	1,452	0.06	0.01	—	1,457
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.77	1.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.12	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.95	5.95	< 0.005	< 0.005	0.01	6.40
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.7	23.7	0.01	< 0.005	0.02	24.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.83	5.83	< 0.005	< 0.005	< 0.005	6.28

Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	24.0	24.0	0.01	< 0.005	< 0.005	25.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	< 0.005	4.34
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	17.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2029) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.77	6.11	13.7	0.02	0.19	—	0.19	0.18	—	0.18	—	2,113	2,113	0.09	0.02	—	2,121

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.53	4.20	9.43	0.01	0.13	—	0.13	0.12	—	0.12	—	1,452	1,452	0.06	0.01	—	1,457
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.77	1.72	< 0.005	0.02	—	0.02	0.02	—	0.02	—	240	240	0.01	< 0.005	—	241
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.12	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.95	5.95	< 0.005	< 0.005	0.01	6.40
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.7	23.7	0.01	< 0.005	0.02	24.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.83	5.83	< 0.005	< 0.005	< 0.005	6.28
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	24.0	24.0	0.01	< 0.005	< 0.005	25.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.03	4.03	< 0.005	< 0.005	< 0.005	4.34
Vendor	0.01	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.4	16.4	< 0.005	< 0.005	0.01	17.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.71	2.71	< 0.005	< 0.005	< 0.005	2.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.64	6.12	0.01	0.08	—	0.08	0.07	—	0.07	—	943	943	0.04	0.01	—	946

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	1.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.84	5.84	< 0.005	< 0.005	0.01	6.30
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.3	23.3	0.01	< 0.005	0.02	24.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.72	5.72	< 0.005	< 0.005	< 0.005	6.17
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.5	23.5	0.01	< 0.005	< 0.005	24.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.77
Vendor	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	11.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.46
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.73	1.73	< 0.005	< 0.005	< 0.005	1.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	5.92	13.7	0.02	0.18	—	0.18	0.16	—	0.16	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.64	6.12	0.01	0.08	—	0.08	0.07	—	0.07	—	943	943	0.04	0.01	—	946
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	1.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.84	5.84	< 0.005	< 0.005	0.01	6.30
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.3	23.3	0.01	< 0.005	0.02	24.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.72	5.72	< 0.005	< 0.005	< 0.005	6.17
Vendor	0.01	0.01	0.14	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	23.5	23.5	0.01	< 0.005	< 0.005	24.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	< 0.005	0.06	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.57	2.57	< 0.005	< 0.005	< 0.005	2.77
Vendor	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	< 0.005	11.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.46
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.73	1.73	< 0.005	< 0.005	< 0.005	1.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/25/2028	11/16/2028	5.00	83.0	—
Site Preparation	Site Preparation	11/17/2028	1/12/2029	5.00	41.0	—
Storm Drain Install	Building Construction	8/19/2030	6/3/2031	5.00	207	—
Paving	Paving	6/4/2031	9/26/2031	5.00	83.0	—
Trenching	Trenching	1/15/2029	8/16/2030	5.00	415	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29

Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37

Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	0.00	0.25	HHDT,MHDT
Demolition	Hauling	14.0	0.25	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	0.25	HHDT,MHDT
Site Preparation	Hauling	64.0	0.25	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	0.25	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	0.25	HHDT,MHDT

Storm Drain Install	Hauling	0.00	0.25	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	0.25	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	0.25	LDA,LDT1,LDT2
Trenching	Vendor	14.0	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	0.00	0.25	HHDT,MHDT
Demolition	Hauling	14.0	0.25	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	0.25	HHDT,MHDT
Site Preparation	Hauling	64.0	0.25	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	0.25	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	0.25	HHDT,MHDT

Storm Drain Install	Hauling	0.00	0.25	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	0.25	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	0.25	LDA,LDT1,LDT2
Trenching	Vendor	14.0	0.25	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	20,500	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	6.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	6.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2028	0.00	690	0.05	0.01
2029	0.00	690	0.05	0.01
2030	0.00	690	0.05	0.01
2031	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit

Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8

Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9
Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100

Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456
Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6

Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5
Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—

Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information. Trip length reduced to 0.25 mile to represent on-site emissions.

Upper Storm Drain System Phase 4 LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

3. Construction Emissions Details

3.1. Demolition (2031) - Unmitigated

3.2. Demolition (2031) - Mitigated

3.3. Site Preparation (2031) - Unmitigated

3.4. Site Preparation (2031) - Mitigated

3.5. Site Preparation (2032) - Unmitigated

3.6. Site Preparation (2032) - Mitigated

3.7. Storm Drain Install (2033) - Unmitigated

3.8. Storm Drain Install (2033) - Mitigated

3.9. Paving (2033) - Unmitigated

3.10. Paving (2033) - Mitigated

3.11. Paving (2034) - Unmitigated

3.12. Paving (2034) - Mitigated

3.13. Trenching (2032) - Unmitigated

3.14. Trenching (2032) - Mitigated

3.15. Trenching (2033) - Unmitigated

3.16. Trenching (2033) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Upper Storm Drain System Phase 4 LST
Construction Start Date	9/26/2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	20.6
Location	8175 Fair Ave, Sun Valley, CA 91352, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3831
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	2.50	Acre	2.50	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-12	Sweep Paved Roads

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08	0.91	6.98	14.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,280	2,280	0.10	0.02	0.03	2,289
Mit.	1.08	0.91	6.98	14.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,280	2,280	0.10	0.02	0.03	2,289
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.08	0.91	7.24	14.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,280	2,280	0.10	0.02	< 0.005	2,290
Mit.	1.08	0.91	7.24	14.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,280	2,280	0.10	0.02	< 0.005	2,290
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.72	0.61	4.72	9.02	0.01	0.12	< 0.005	0.13	0.11	< 0.005	0.11	—	1,392	1,392	0.06	0.01	0.01	1,398
Mit.	0.72	0.61	4.72	9.02	0.01	0.12	< 0.005	0.13	0.11	< 0.005	0.11	—	1,392	1,392	0.06	0.01	0.01	1,398
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.11	0.86	1.65	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	230	230	0.01	< 0.005	< 0.005	231
Mit.	0.13	0.11	0.86	1.65	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	230	230	0.01	< 0.005	< 0.005	231
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	75.0	100	550	150	—	—	150	—	—	55.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.99	0.84	6.62	14.9	0.02	0.18	0.01	0.19	0.17	< 0.005	0.17	—	2,280	2,280	0.10	0.02	0.02	2,289
2032	0.87	0.74	5.66	13.9	0.02	0.15	0.01	0.16	0.14	< 0.005	0.14	—	2,141	2,141	0.09	0.02	0.03	2,150
2033	1.08	0.91	6.98	13.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,141	2,141	0.09	0.02	0.02	2,150

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.99	0.83	6.63	14.9	0.02	0.18	0.01	0.19	0.17	< 0.005	0.17	—	2,280	2,280	0.10	0.02	< 0.005	2,290
2032	0.87	0.74	5.67	13.9	0.02	0.15	0.01	0.16	0.14	< 0.005	0.14	—	2,142	2,142	0.09	0.02	< 0.005	2,150
2033	1.08	0.91	7.24	13.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,141	2,141	0.09	0.02	< 0.005	2,150
2034	1.01	0.85	7.20	9.12	0.01	0.16	< 0.005	0.17	0.15	< 0.005	0.15	—	1,329	1,329	0.06	0.01	< 0.005	1,334
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.17	0.14	1.13	2.54	< 0.005	0.03	< 0.005	0.03	0.03	< 0.005	0.03	—	388	388	0.02	< 0.005	< 0.005	390
2032	0.57	0.48	3.70	9.02	0.01	0.10	< 0.005	0.10	0.09	< 0.005	0.09	—	1,392	1,392	0.06	0.01	0.01	1,398
2033	0.72	0.61	4.72	7.65	0.01	0.12	< 0.005	0.13	0.11	< 0.005	0.11	—	1,375	1,375	0.06	0.01	< 0.005	1,380
2034	0.08	0.06	0.55	0.70	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	101	101	< 0.005	< 0.005	< 0.005	102
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.03	0.03	0.21	0.46	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	64.3	64.3	< 0.005	< 0.005	< 0.005	64.6
2032	0.10	0.09	0.68	1.65	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	230	230	0.01	< 0.005	< 0.005	231
2033	0.13	0.11	0.86	1.40	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	228	228	0.01	< 0.005	< 0.005	229
2034	0.01	0.01	0.10	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.8	16.8	< 0.005	< 0.005	< 0.005	16.9

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.99	0.84	6.62	14.9	0.02	0.18	0.01	0.19	0.17	< 0.005	0.17	—	2,280	2,280	0.10	0.02	0.02	2,289
2032	0.87	0.74	5.66	13.9	0.02	0.15	0.01	0.16	0.14	< 0.005	0.14	—	2,141	2,141	0.09	0.02	0.03	2,150
2033	1.08	0.91	6.98	13.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,141	2,141	0.09	0.02	0.02	2,150
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2031	0.99	0.83	6.63	14.9	0.02	0.18	0.01	0.19	0.17	< 0.005	0.17	—	2,280	2,280	0.10	0.02	< 0.005	2,290
2032	0.87	0.74	5.67	13.9	0.02	0.15	0.01	0.16	0.14	< 0.005	0.14	—	2,142	2,142	0.09	0.02	< 0.005	2,150
2033	1.08	0.91	7.24	13.9	0.02	0.19	0.01	0.20	0.17	< 0.005	0.18	—	2,141	2,141	0.09	0.02	< 0.005	2,150
2034	1.01	0.85	7.20	9.12	0.01	0.16	< 0.005	0.17	0.15	< 0.005	0.15	—	1,329	1,329	0.06	0.01	< 0.005	1,334
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.17	0.14	1.13	2.54	< 0.005	0.03	< 0.005	0.03	0.03	< 0.005	0.03	—	388	388	0.02	< 0.005	< 0.005	390
2032	0.57	0.48	3.70	9.02	0.01	0.10	< 0.005	0.10	0.09	< 0.005	0.09	—	1,392	1,392	0.06	0.01	0.01	1,398
2033	0.72	0.61	4.72	7.65	0.01	0.12	< 0.005	0.13	0.11	< 0.005	0.11	—	1,375	1,375	0.06	0.01	< 0.005	1,380
2034	0.08	0.06	0.55	0.70	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	101	101	< 0.005	< 0.005	< 0.005	102
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2031	0.03	0.03	0.21	0.46	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	64.3	64.3	< 0.005	< 0.005	< 0.005	64.6
2032	0.10	0.09	0.68	1.65	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	230	230	0.01	< 0.005	< 0.005	231
2033	0.13	0.11	0.86	1.40	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	228	228	0.01	< 0.005	< 0.005	229
2034	0.01	0.01	0.10	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	16.8	16.8	< 0.005	< 0.005	< 0.005	16.9

3. Construction Emissions Details

3.1. Demolition (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.10	2.50	< 0.005	0.03	—	0.03	0.03	—	0.03	—	383	383	0.02	< 0.005	—	384
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	63.4	63.4	< 0.005	< 0.005	—	63.6
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.39	6.39	< 0.005	< 0.005	0.01	6.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.4	18.4	0.01	< 0.005	0.01	19.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.25	6.25	< 0.005	< 0.005	< 0.005	6.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.7	18.7	0.01	< 0.005	< 0.005	19.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.33
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55

3.2. Demolition (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263

Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.50	14.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,255	2,255	0.09	0.02	—	2,263
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.10	2.50	< 0.005	0.03	—	0.03	0.03	—	0.03	—	383	383	0.02	< 0.005	—	384
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	63.4	63.4	< 0.005	< 0.005	—	63.6
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.39	6.39	< 0.005	< 0.005	0.01	6.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.11	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.4	18.4	0.01	< 0.005	0.01	19.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	6.25	6.25	< 0.005	< 0.005	< 0.005	6.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.12	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18.7	18.7	0.01	< 0.005	< 0.005	19.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.07	1.07	< 0.005	< 0.005	< 0.005	1.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.15	3.15	< 0.005	< 0.005	< 0.005	3.33
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55

3.3. Site Preparation (2031) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.02	0.46	0.36	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	74.8	74.8	0.02	0.01	< 0.005	78.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20

3.4. Site Preparation (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.02	0.46	0.36	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	74.8	74.8	0.02	0.01	< 0.005	78.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20

3.5. Site Preparation (2032) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.04	0.02	0.46	0.36	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	73.7	73.7	0.02	0.01	< 0.005	77.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.01	5.01	< 0.005	< 0.005	< 0.005	5.29
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.88

3.6. Site Preparation (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.02	0.46	0.36	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	73.7	73.7	0.02	0.01	< 0.005	77.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.01	5.01	< 0.005	< 0.005	< 0.005	5.29
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.83	0.83	< 0.005	< 0.005	< 0.005	0.88

3.7. Storm Drain Install (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	A-621	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	2.94	3.94	0.01	0.08	—	0.08	0.07	—	0.07	—	820	820	0.03	0.01	—	823
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.54	0.72	< 0.005	0.01	—	0.01	0.01	—	0.01	—	136	136	0.01	< 0.005	—	136
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	12.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	< 0.005	12.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.89	4.89	< 0.005	< 0.005	< 0.005	5.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Storm Drain Install (2033) - Mitigated

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

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

Off-Road Equipm	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.84	6.96	9.35	0.02	0.19	—	0.19	0.17	—	0.17	—	1,944	1,944	0.08	0.02	—	1,951
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	2.94	3.94	0.01	0.08	—	0.08	0.07	—	0.07	—	820	820	0.03	0.01	—	823
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.54	0.72	< 0.005	0.01	—	0.01	0.01	—	0.01	—	136	136	0.01	< 0.005	—	136
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.02	0.19	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.8	11.8	< 0.005	< 0.005	0.01	12.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.02	0.23	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.5	11.5	< 0.005	< 0.005	< 0.005	12.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.89	4.89	< 0.005	< 0.005	< 0.005	5.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.82	7.23	9.00	0.01	0.17	—	0.17	0.16	—	0.16	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.66	0.83	< 0.005	0.02	—	0.02	0.01	—	0.01	—	122	122	< 0.005	< 0.005	—	122
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.28	7.28	< 0.005	< 0.005	< 0.005	7.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.82	7.23	9.00	0.01	0.17	—	0.17	0.16	—	0.16	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.66	0.83	< 0.005	0.02	—	0.02	0.01	—	0.01	—	122	122	< 0.005	< 0.005	—	122
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.02	0.01	0.12	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.28	7.28	< 0.005	< 0.005	< 0.005	7.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.11	0.11	< 0.005	< 0.005	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2034) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.80	7.19	8.98	0.01	0.16	—	0.16	0.15	—	0.15	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.55	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	101	101	< 0.005	< 0.005	—	101
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.7	16.7	< 0.005	< 0.005	—	16.8
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.18	7.18	< 0.005	< 0.005	< 0.005	7.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.55	0.55	< 0.005	< 0.005	< 0.005	0.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.80	7.19	8.98	0.01	0.16	—	0.16	0.15	—	0.15	—	1,322	1,322	0.05	0.01	—	1,326
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.55	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	101	101	< 0.005	< 0.005	—	101
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.7	16.7	< 0.005	< 0.005	—	16.8
Paving	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	7.18	7.18	< 0.005	< 0.005	< 0.005	7.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.55	0.55	< 0.005	< 0.005	< 0.005	0.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	3.58	8.86	0.01	0.10	—	0.10	0.09	—	0.09	—	1,369	1,369	0.06	0.01	—	1,374

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.65	1.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	227	227	0.01	< 0.005	—	227
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.66	5.66	< 0.005	< 0.005	0.01	6.07
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.3	22.3	0.01	< 0.005	0.02	23.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.54	5.54	< 0.005	< 0.005	< 0.005	5.96
Vendor	0.01	0.01	0.13	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.6	22.6	0.01	< 0.005	< 0.005	23.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.61	3.61	< 0.005	< 0.005	< 0.005	3.90
Vendor	0.01	< 0.005	0.08	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.6	14.6	< 0.005	< 0.005	0.01	15.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.65
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.53	13.7	0.02	0.15	—	0.15	0.14	—	0.14	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	3.58	8.86	0.01	0.10	—	0.10	0.09	—	0.09	—	1,369	1,369	0.06	0.01	—	1,374
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.65	1.62	< 0.005	0.02	—	0.02	0.02	—	0.02	—	227	227	0.01	< 0.005	—	227

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.10	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.66	5.66	< 0.005	< 0.005	0.01	6.07
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.3	22.3	0.01	< 0.005	0.02	23.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.54	5.54	< 0.005	< 0.005	< 0.005	5.96
Vendor	0.01	0.01	0.13	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.6	22.6	0.01	< 0.005	< 0.005	23.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.07	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.61	3.61	< 0.005	< 0.005	< 0.005	3.90
Vendor	0.01	< 0.005	0.08	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.6	14.6	< 0.005	< 0.005	0.01	15.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.65
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.53
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Trenching (2033) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.08	2.73	< 0.005	0.03	—	0.03	0.03	—	0.03	—	422	422	0.02	< 0.005	—	423
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.50	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	69.8	69.8	< 0.005	< 0.005	—	70.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.58	5.58	< 0.005	< 0.005	< 0.005	5.99
Vendor	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.9	21.9	0.01	< 0.005	0.02	23.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.86
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.2	22.2	0.01	< 0.005	< 0.005	23.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.18
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	< 0.005	4.63
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Trenching (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.41	13.7	0.02	0.14	—	0.14	0.13	—	0.13	—	2,113	2,113	0.09	0.02	—	2,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.08	2.73	< 0.005	0.03	—	0.03	0.03	—	0.03	—	422	422	0.02	< 0.005	—	423
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.20	0.50	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	69.8	69.8	< 0.005	< 0.005	—	70.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.58	5.58	< 0.005	< 0.005	< 0.005	5.99
Vendor	0.01	0.01	0.12	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	21.9	21.9	0.01	< 0.005	0.02	23.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	5.46	5.46	< 0.005	< 0.005	< 0.005	5.86
Vendor	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	22.2	22.2	0.01	< 0.005	< 0.005	23.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.18
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.40	4.40	< 0.005	< 0.005	< 0.005	4.63
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	9/29/2031	12/23/2031	5.00	62.0	—
Site Preparation	Site Preparation	12/24/2031	2/4/2032	5.00	31.0	—
Storm Drain Install	Building Construction	4/13/2033	11/14/2033	5.00	154	—
Paving	Paving	11/15/2033	2/8/2034	5.00	62.0	—
Trenching	Trenching	2/5/2032	4/12/2033	5.00	309	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43

Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Trenching	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Storm Drain Install	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Storm Drain Install	Cranes	Diesel	Average	1.00	8.00	367	0.29
Storm Drain Install	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Storm Drain Install	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Storm Drain Install	Tractors/Loaders/Backhoes	Diesel	Average	2.00	2.00	84.0	0.37
Paving	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Paving	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Trenching	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Trenching	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

Trenching	Tractors/Loaders/Back	Diesel	Average	2.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	0.00	0.25	HHDT,MHDT
Demolition	Hauling	8.00	0.25	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	0.25	HHDT,MHDT
Site Preparation	Hauling	32.0	0.25	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	0.25	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	0.25	HHDT,MHDT
Storm Drain Install	Hauling	0.00	0.25	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	0.25	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	0.25	LDA,LDT1,LDT2

Trenching	Vendor	14.0	0.25	HHDT,MHDT
Trenching	Hauling	0.00	0.25	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	0.25	LDA,LDT1,LDT2
Demolition	Vendor	0.00	0.25	HHDT,MHDT
Demolition	Hauling	8.00	0.25	HHDT
Demolition	Onsite truck	0.00	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.25	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	0.25	HHDT,MHDT
Site Preparation	Hauling	32.0	0.25	HHDT
Site Preparation	Onsite truck	0.00	—	HHDT
Storm Drain Install	—	—	—	—
Storm Drain Install	Worker	38.0	0.25	LDA,LDT1,LDT2
Storm Drain Install	Vendor	0.00	0.25	HHDT,MHDT
Storm Drain Install	Hauling	0.00	0.25	HHDT
Storm Drain Install	Onsite truck	0.00	—	HHDT
Paving	—	—	—	—
Paving	Worker	24.0	0.25	LDA,LDT1,LDT2
Paving	Vendor	0.00	0.25	HHDT,MHDT
Paving	Hauling	0.00	0.25	HHDT
Paving	Onsite truck	0.00	—	HHDT
Trenching	—	—	—	—
Trenching	Worker	18.0	0.25	LDA,LDT1,LDT2

Trenching	Vendor	14.0	0.25	HHDT,MHDT
Trenching	Hauling	0.00	0.25	HHDT
Trenching	Onsite truck	0.00	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	0.00	—
Site Preparation	0.00	7,600	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	2.50

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Other Non-Asphalt Surfaces	2.50	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2031	0.00	690	0.05	0.01
2032	0.00	690	0.05	0.01
2033	0.00	690	0.05	0.01
2034	0.00	690	0.05	0.01

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.6	annual days of extreme heat
Extreme Precipitation	6.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	91.1
AQ-PM	59.7
AQ-DPM	84.3
Drinking Water	83.1
Lead Risk Housing	69.7
Pesticides	0.00
Toxic Releases	62.8
Traffic	80.5
Effect Indicators	—
CleanUp Sites	93.7
Groundwater	44.8
Haz Waste Facilities/Generators	84.4
Impaired Water Bodies	58.7
Solid Waste	91.1
Sensitive Population	—
Asthma	81.9

Cardio-vascular	67.1
Low Birth Weights	18.4
Socioeconomic Factor Indicators	—
Education	97.6
Housing	98.4
Linguistic	86.9
Poverty	95.5
Unemployment	52.5

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.54407802
Employed	30.82253304
Median HI	7.185936096
Education	—
Bachelor's or higher	4.157577313
High school enrollment	100
Preschool enrollment	39.3301681
Transportation	—
Auto Access	12.56255614
Active commuting	89.74720903
Social	—
2-parent households	21.48081612
Voting	8.635955345
Neighborhood	—
Alcohol availability	11.85679456

Park access	81.35506224
Retail density	77.80059027
Supermarket access	86.28256127
Tree canopy	51.77723598
Housing	—
Homeownership	7.55806493
Housing habitability	3.503143847
Low-inc homeowner severe housing cost burden	21.18567946
Low-inc renter severe housing cost burden	7.570896959
Uncrowded housing	6.852303349
Health Outcomes	—
Insured adults	21.36532786
Arthritis	55.6
Asthma ER Admissions	16.9
High Blood Pressure	59.9
Cancer (excluding skin)	80.0
Asthma	23.6
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	23.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	27.6
Cognitively Disabled	3.8
Physically Disabled	14.9
Heart Attack ER Admissions	43.9
Mental Health Not Good	12.4
Chronic Kidney Disease	20.1
Obesity	10.9
Pedestrian Injuries	93.5

Physical Health Not Good	10.1
Stroke	26.0
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	15.5
No Leisure Time for Physical Activity	15.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	78.6
English Speaking	24.9
Foreign-born	81.8
Outdoor Workers	15.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	35.5
Traffic Density	85.3
Traffic Access	87.4
Other Indices	—
Hardship	91.9
Other Decision Support	—
2016 Voting	9.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	97.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project Description
Construction: Construction Phases	Applicant provided schedule and phases
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information. Trip length reduced to 0.25 miles to represent on-site emissions.